

ServiceLine

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

2021 ATC CANCELED


**2020 LEADERSHIP
SEMINAR AGENDA**

**GET YOUR BACK
ON TRACK**

**PRESSURE DATA
LOGGERS CAN
HELP SOLVE
SYSTEM PROBLEMS**

**NOT ALL LEAKS
ARE OBVIOUS**

AWARDS NOMINATIONS EXTENDED TO NOVEMBER 30TH



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Cover Photo: Fog rolling off Lake Herman

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FROM THE SDARWS PRESIDENT

RON GILLEN, SDARWS PRESIDENT

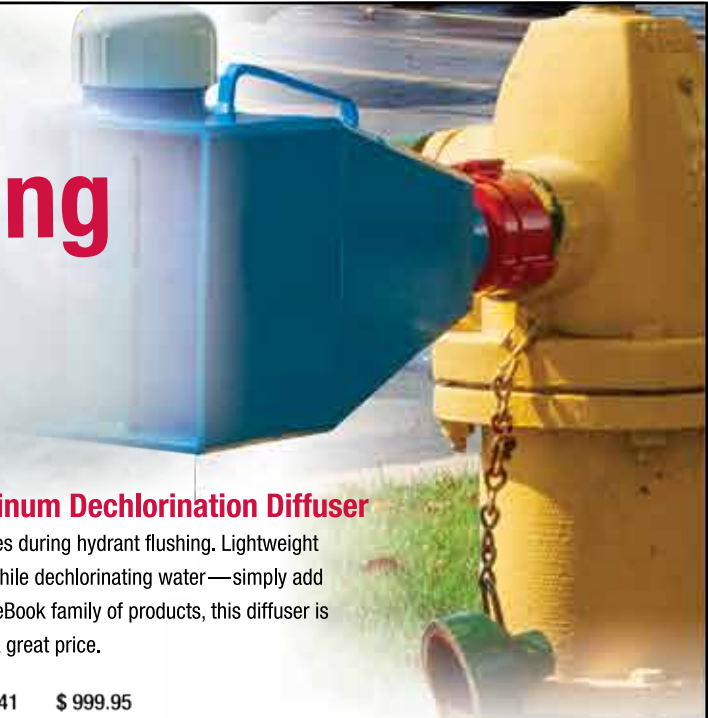
2021 ATC CANCELED

Every year we look forward to gathering in Pierre with our Rural Water Family at the Annual Technical Conference. But this year given the impact of the COVID-19 pandemic, we've made the difficult decision to cancel the ATC for 2021. This was a tough call to make - the ATC is incredibly important to our water and wastewater professionals in South Dakota, our industry members, our rural and municipal water systems, and to our Association. Given the circumstances, hosting a large event this January would not look or feel the same as in years past, nor did we feel it would be responsible to bring so many people together during this time. In the meantime, thank you for your patience and understanding - and we look forward to gathering with our Rural Water Family in 2022. To read the full statement from the SDARWS Board of Directors, please turn to page 11.

LEADERSHIP SEMINAR

Association staff are prepping for our Annual Leadership Seminar which be held at the Best Western Ramkota Hotel in Pierre November 18-19, 2020. This seminar is geared towards Rural Water System Directors and Board Members and includes informational sessions on water rates, asset management, sustainability, financing, and director and manager panels. The cost to attend Leadership is \$160, and includes a meal at the President's Reception on the evening of November 18. Members of WaterPro will receive a \$15 discount. Registration for this event will be available online at <https://tinyurl.com/SDLeadership>, or by calling the SDARWS office at 605-556-7219. Stay tuned for the agenda in the next issue of *ServiceLine*. In the event that we cannot hold this seminar in person, we plan to host it virtually at a reduced cost. 💧

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OPERATOR CERTIFICATION TRAINING AND EXAMS

| | | |
|---------------------------------------|----------------------|--|
| OpCert Exam (Limit 18 examinees) | October 27-12:30 pm | Pierre-Matthew Center |
| OpCert Exam (Limit 46 examinees) | October 29-1:00 pm | Sioux Falls-Ramkota-Masks required |
| Water Distribution | November 17-19 | Webinar by SDARWS |
| OpCert Exam (Limit 40 examinees) | November 19-1:00 pm | Aberdeen-Ramkota-Masks required |
| Wastewater Collection | December 1-3 | Webinar by SDARWS |
| OpCert Exam | December 3-1:00 pm | Sioux Falls-Ramkota-Masks required |
| Basic Water Treatment | December 8-10 | Webinar by SDARWS |
| OpCert Exam (Limit 36 examinees) | December 10-1:00 pm | Spearfish-Holiday Inn |
| OpCert Exam (Limit 18 examinees) | December 16-12:30 pm | Pierre-Matthew Center |
| Basic Wastewater Treatment | January 26-28, 2021 | Rapid City-Ramkota |
| Water Distribution | February 23-25 | Brookings-Wilburt Square Events Center |
| Wastewater Collection | March 9-11 | Rapid City-Ramkota |
| Basic Wastewater Treatment | March 23-25 | Watertown-Ramkota |
| Basic Water Treatment | April 6-8 | Sioux Falls-Ramkota |
| Small System Water Treatment Workshop | April 27 | Rapid City-Ramkota |
| Small System Water Treatment Workshop | April 29 | Huron-Crossroads/Events Center |
| Intermediate Water Treatment | May 4-6 | Sioux Falls-Ramkota |
| Advanced Water Treatment | May 18-20 | TBD |
| Stabilization Pond Workshop | June 1 | Huron-Crossroads/Events Center |

HOW DO I ATTEND AN ONLINE WEBINAR?

First, register for the class online at go.activecalendar.com/sdarws. You will not need to set up a username nor a password. Upon registration you will need to enter a valid email address for each registrant or we will not be able to send you the following: After you are registered, SDARWS Trainer Jim Zeck will send you a link with instructions on how to get signed up for the online course using Zoom. When registering on Zoom we ask that you use your full name instead of a handle so we know who you are when you logon to the course. You will also get instructions on how to access the course materials to download and which material you may want to print off (typically the ABC Formula Conversion Table and the Math Handout) prior to the day of the course. If you have multiple participants from one system, please include them and their email in the go.activecalendar.com registration process. During the start of the course you may be asked to use the chat function to let trainer Jim Zeck know who is in attendance at your site if you have more than one person. You will also need a pen/pencil, notepad,

and calculator available. The webinars are accessible via computer (may need headphones or speakers if not built in), smartphone, or tablet (the bigger the screen the better). During the webinar, if you have questions you are able to ask them by typing your question in the Q&A box. There is a possibility to request to turn on and use a microphone on your end if you have a very specific question or comment. Attendance will be taken periodically during the duration of the webinar. Certification webinars are not recorded - you must attend on the day the class is given for credit.

HOW WILL THE OPCERT EXAMS BE GIVEN DURING THE COVID PANDEMIC?

- If any examinee feels ill on day of exam, they are to stay home.
- Any examinees showing any symptoms will not be allowed to take exam and anyone showing symptoms while taking exam while be told to leave with exam being confiscated.
- Masks may be worn, or may be required by the venue.
- Extra personnel will not be allowed in Foss Building or exam room.

Exams at Matthew Center/Foss Building-Pierre:

- You may not enter the building without an escort. At 25 minutes before the exam start time, please line up at the front door of the Foss Building on Capitol Avenue observing social distancing. A proctor will meet you at the front door and escort you to the exam room. DENR rules require that upon entering the building, you must sign in and have your temperature taken. If you are late, you risk not getting into the building to take the exam.

Exams at Other Locations such as Motels/Water/WW Plants:

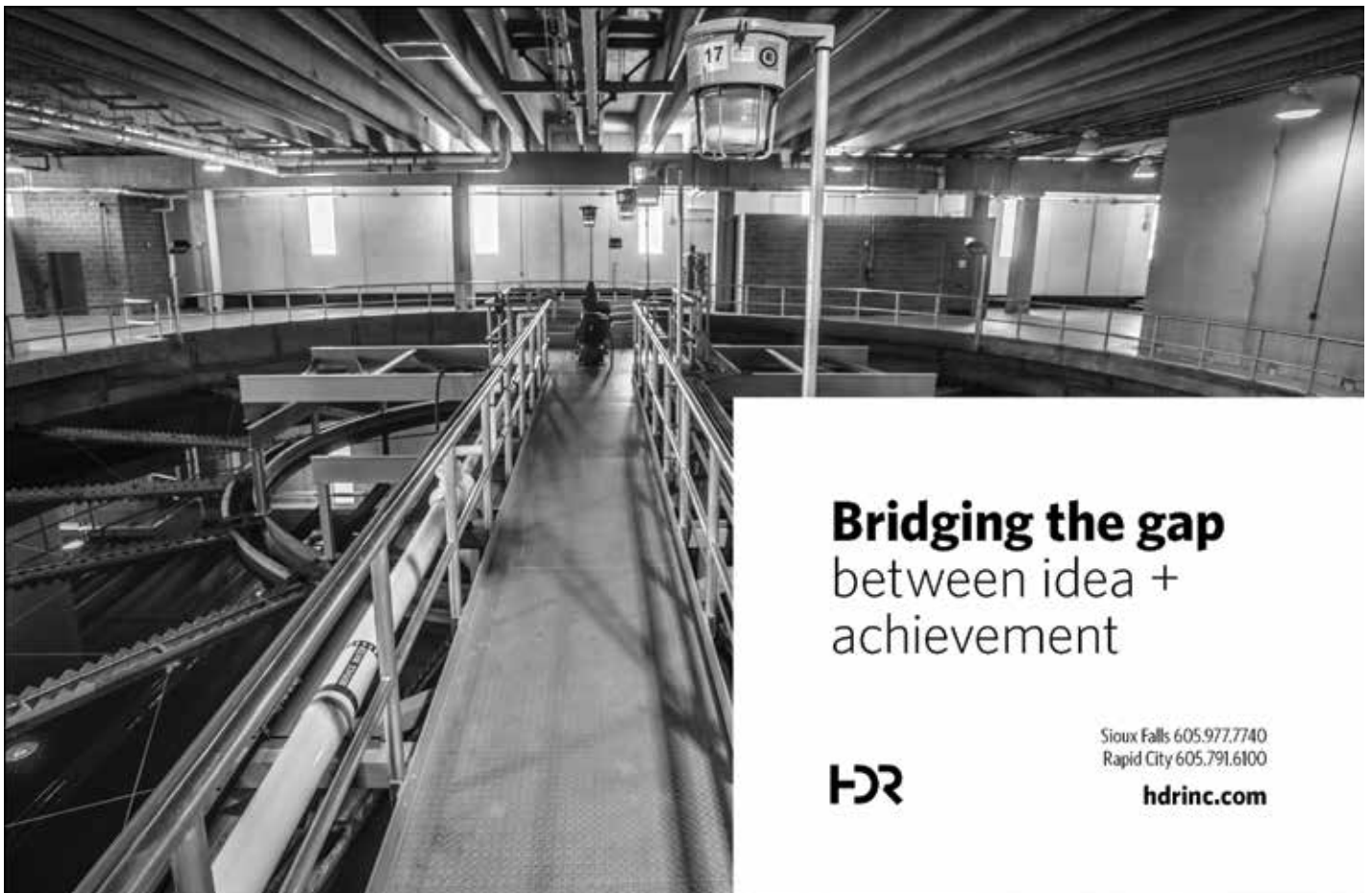
- No-one enters exam room before proctor. All materials/people will clear room after class has ended if applicable. Please remain in parking lot or lobby maintaining social distances. Line up at the front door of the exam room 20 minutes before the exam start time and observing social distancing.
- When exam room is ready, proctor will invite each examinee into room to an assigned seat with exam already in place.
- When you get seated, you are not to start your exam. You are to wait until all examinees are seated, exam instructions are given, and exam session will start.

- Pencils/calculators/pencil sharpeners will not be provided. You must bring your own.
- No receipts/exam applications/schedules will be available. For a receipt, call 605-773-4208 or email rob.kittay@state.sd.us after the exams and one will be emailed to you.
- Examinees needing to leave exam room during exam such as bathroom use will be allowed to do so; however, only one person may leave at a time.
- Examinees with a question on exam will come forward to the proctor's table (maintaining social distancing) to ask question.
- When examinee is done with exam, they will come up to proctor's table and hold up their exam booklet/answer sheet so proctor can determine that answer sheet has been completed properly. After proctor gives OK, they will put answer sheet inside booklet and leave on table without proctor touching exam.
- Examinees are then to leave exam room at motels/water/WW plants or the Foss Building/Matthew Center directly.

For Study materials, visit: www.abccert.org/testing_services/ExamReferences.asp

For more information contact SDARWS Trainer Jim Zeck: 605-201-9568 or jzeck@sdarws.com

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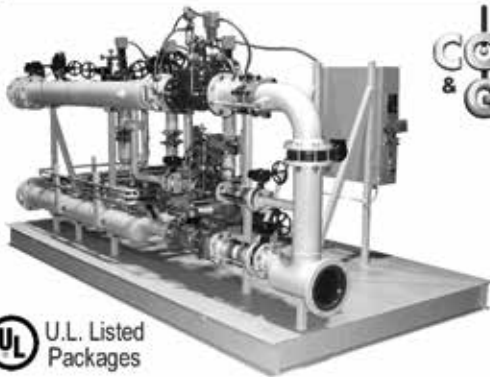
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SDARWS STAFF DIRECTORY



KURT PFEIFLE

Executive Director

kpfeifle@sdarws.com
605-204-0125



STEVE ATTEMA

Training Specialist

sattema@sdarws.com
605-270-1766



JIM ZECK

Training Specialist

jzeck@sdarws.com
605-201-9568



MIKE MOELLER

*Technical Assistance
Training Specialist*

mmoeller@sdarws.com
605-270-4989



NICK JACKSON

West River Circuit Rider

njackson@sdarws.com
605-641-4557



GREG GROSS

East River Circuit Rider

ggross@sdarws.com
605-201-6026



ROBYN BROTHERS

Office Manager

rbrothers@sdarws.com
605-556-7219



JEFF FOSSUM

East River Circuit Rider

jfossun@sdarws.com
605-201-9561



JEREMIAH CORBIN

*Source Water Protection
Specialist*

jcorbin@sdarws.com
605-270-3894



BILL THORSON

*Technical Assistance
Training Specialist*

bthorson@sdarws.com
605-201-0170



JENNIFER BAME

*Communications &
Marketing Coordinator*

jbame@sdarws.com
605-556-7219



DANNY AYERS

*East River Wastewater
Technician*

dayers@sdarws.com
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2021 ANNUAL TECHNICAL CONFERENCE CANCELED

The South Dakota Association of Rural Water Systems (SDARWS) regretfully announces the cancellation of the 2021 Annual Technical Conference (ATC), which had been scheduled for January 12–14, 2021.

The SDARWS Policy Committee met on Friday, October 16, 2020 (via Zoom), to discuss the future of the conference. Given the impact of the COVID-19 pandemic, the decision was made to cancel the ATC for 2021. This decision did not come lightly. After all of the evidence was presented, the Policy Committee felt there were significant issues and obstacles to overcome. It was conceded that cancellation was the safest, clearest, and most sensible option available. We understand the ATC's impact and value on our membership – our water and wastewater professionals, and our industry members. We are deeply disappointed that we are unable to host the event this coming January and fervently hope that COVID-19 will be behind us soon. For now, we look forward to gathering back together on January 11-13, 2022, for a spectacular ATC.

With regrets,

SDARWS Board of Directors



FREE MASKS AVAILABLE

South Dakota Association of Rural Water Systems (SDARWS) and Water and Wastewater Agency Response Network (SDWARN) has worked with EPA and FEMA to secure a limited supply of cloth facemasks for water sector personnel. SDWARN is partnering with SDARWS to help distribute these cloth facemasks.

ABOUT THE CLOTH FACEMASKS:

- Single size (one size fits all)
- Fabric touching skin is 100% cotton
- The cloth masks are reusable and machine washable up to 15 times
- NOT for use with chemicals or in hazardous environments where N95 or other respirators are required
- If you are in need of masks for utility personnel, please scroll down and fill out the online request form, and we will get you on the list to receive these essential supplies.

You will be asked to provide basic information about you and your water system such as your PWSID or NPDES Permit number and the number of FTE at your system. This is to verify that you are a South Dakota water or wastewater agency.

SOME KEY POINTS OF THE PROGRAM ARE:

- Cloth masks are being made available to all water and wastewater agency employees in South Dakota.
- The cloth masks are for all public water and wastewater system employees; masks are not exclusive to field workers and operators.
- Identify the number of cloth facemask requested
- Once approved, you will receive an email to confirm the number of cloth masks you will receive and confirmation of arrangements made for pick-up or delivery of the facemasks.

You do not need to be a member of SDWARN in order to receive masks, however, if you're not a member, we strongly encourage you to join. More information can be found on SDWARN's website by going to www.sdwarn.org.

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Association staff are busy getting ready for our Annual Leadership Seminar which will be held at the Best Western Ramkota Hotel in Pierre November 18-19th. This seminar is geared towards Rural Water System Directors and includes informational sessions on water system depreciation, strategic planning, water rights, workplace issues, utility websites, and more. The keynote speaker for the President's reception this

year is Dan Nebelsick, an engineer with DGR speaking on his year in the middle east where he helped communities with infrastructure upgrades. The cost to attend Leadership is \$160, and includes a meal at the President's Reception on the evening of November 18th. There will be a \$15 discount for WaterPro members. Registration for this event will be available on our website at sdarws.com. The tentative agenda is below:

Wednesday – November 18

- 1:00 WELCOME**
– Ron Gillen, SDARWS Board President
- PLEDGE OF ALLEGIANCE**
- AGENDA REVIEW**
- 1:15 PREPARING FOR SUCCESSION: YOURS AND YOUR PEOPLE**
Dan Oakland – Alternative HRD
- 2:00 RATE SETTING AND ASSET MANAGEMENT**
Calvin Coles - WATERWORTH (via Zoom)
- 2:45 BREAK**
- 3:00 THE STATEWIDE GROUNDWATER MONITORING NETWORK**
Tim Cowman – SD Geological Survey
- 3:45 BREAK**
- 4:15 STRATEGIC PLANNING**
Bob Harris – Harris Management Group (via Zoom)
- 5:30 PRESIDENT’S RECEPTION**
- 6:00 DINNER & GUEST SPEAKER**
Dan Nebelsick – A Midwest Perspective on the Middle East

Thursday – November 19

- 8:15 REGULATORY UPDATE**
Mark Mayer – Drinking Water Administrator, SDDENR
- 8:45 BREAK**
- 9:00 NRWA GRASSROOTS LEGISLATIVE ADVOCACY IN WASHINGTON DC**
Bill Simpson, Michael Preston & Mike Keegan – NRWA (via Zoom)
- 10:00 BREAK**
- 10:15 FIDUCIARY RESPONSIBILITIES OF DIRECTORS**
Darla Pollman Rogers – Riter Rogers, LLP
- 11:15 CLOSING COMMENTS**
Ron Gillen, SDARWS Board President, & Kurt Pfeifle, SDARWS Executive Director

SDARWS is monitoring the COVID-19 pandemic and will make announcements as needed in the event the seminar needs to be modified.

South Dakota Rural Water AWARD NOMINATIONS

Do you know someone who is doing a great job? Goes above and beyond the call of duty? Has your water system achieved excellence this year – or has overcome some amazing challenges?

Give recognition where it is due by making an award nomination. **Application deadline has been extended to November 30, 2020.** Eligible nominees must be affiliated with a system member in good standing. The online form can be found at www.surveymonkey.com/r/ATCawards.

WE ARE ACCEPTING NOMINATIONS FOR THE FOLLOWING CATEGORIES:

Rural Water System of the Year: a member system who puts forth exceptional efforts to properly manage, operate, and maintain their drinking water system.

Rural Water Manager of the Year: Recognition for a manager of a Rural Water System for outstanding performance in operating a Rural Water System.

Rural Water Office Person of the Year: Recognition for an administrative employee of a Rural Water System for outstanding performance in office management and procedures.

Rural Water System Operations Supervisor of the Year: Recognition for a State of South Dakota Certified Operator who is actively working a supervisory role for a Rural Water System, and has demonstrated outstanding leadership ability and/or accomplishments in drinking water.

Rural Water System Operations Specialist of the Year: Recognition for a State of South Dakota Certified Operator who is actively working for a Rural Water System with outstanding leadership ability and/or accomplishments in drinking water.

Municipal Water/Wastewater System of the Year: a municipality who puts forth exceptional efforts to properly manage, operate, and maintain their drinking water and wastewater system.

Municipal Manager of the Year: Recognition for a municipal manager for outstanding performance in managing a municipality.

Municipal Office Person of the Year: Recognition for an administrative employee of a municipality (i.e. clerk, finance officer, etc.) for outstanding performance in office management and procedures.

Municipal Operations Specialist of the Year: Recognition for a State of South Dakota Certified Operator who is actively working for a municipality with outstanding leadership ability/accomplishments in water.

Carroll Anderson Memorial: The Carroll Anderson Memorial Award is a tribute to the exemplary work of Carroll Anderson who gave generously of his time, talents, and efforts to the Kingbrook Rural Water System and the South Dakota Association of Rural Water Systems. This award recognizes an individual's outstanding voluntary contributions to the advancement of rural community water systems in South Dakota, and is the greatest tribute the Association can bestow recognizing an individual's contributions to both the member system and to SDARWS.

Friend of Rural Water: This distinguished honor is awarded to agencies, organizations, or individuals who have lent a hand in supporting this fantastic phenomenon we call Rural Water. The ability to provide life's essential need, water, to all the citizens of South Dakota was not done by one person or organization; it is a collective effort encompassing many.

Spirit of Rural Water: This award is presented to an individual, business or group that goes above and beyond for a rural water system or rural water cause. South Dakota Rural Water wants to recognize exceptional rural water advocates that stand out from the pack because of their commitment to rural water issues and/or their passion for the job. Eligible candidates include rural and community water consumers, employees, directors, as well as lawmakers, businesses, or any person or group that puts forth a noble effort to advance rural water.

Donald B. Pospishil: This award honors the work of Don Pospishil who dedicated many years of his life to helping small water systems across South Dakota. The Donald B. Pospishil Award is awarded to individuals who demonstrate leadership abilities in the water supply field, provide quality services to consumers, and exhibits professionalism and dedication while operating and maintaining a small water system.

South Dakota Rural Water AWARDS NOMINATION FORM

This form is also available online at: www.surveymonkey.com/r/ATCAwards

Name of Nominee _____ Title _____

Employer _____ Years with System _____

Name of person making nomination _____

Address _____

City _____ State _____ Zipcode _____

Please Indicate Award:

- | | |
|--|--|
| <input type="checkbox"/> Rural Water System of the Year | <input type="checkbox"/> Municipal Office Person of the Year |
| <input type="checkbox"/> Rural Water Manager of the Year | <input type="checkbox"/> Municipal Operations Specialist of the Year |
| <input type="checkbox"/> Rural Water Office Person of the Year | <input type="checkbox"/> Carroll Anderson Memorial |
| <input type="checkbox"/> Rural Water Operations Supervisor of the Year | <input type="checkbox"/> Friend of Rural Water |
| <input type="checkbox"/> Rural Water Operations Specialist of the Year | <input type="checkbox"/> Spirit of Rural Water |
| <input type="checkbox"/> Municipal Water/Wastewater System of the Year | <input type="checkbox"/> Donald B. Pospishil |
| <input type="checkbox"/> Municipal Manager of the Year | |

Supporting Information: Please provide a narrative for why this nominee deserves the award. (Outstanding accomplishments, contributions to system and state association, certifications, awards, exemplary work on legislative issues, leadership, civic activities, etc.) Feel free to add additional pages if needed.

Deadline to apply is November 30, 2020
Please complete this entry form and mail to:
SDARWS | Attn: Jeremiah | PO Box 287 | Madison, SD 57042
or scan and email to atc@sdarws.com

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Pressure Data Loggers Can Help Solve System Problems

By Mike Moeller, SDARWS Training/Technical Assistance Specialist

What is a pressure data logger? It's a simple device that records pressure readings on a water system. The older pressure data loggers were a simple chart that had an ink cartridge that would draw a line on a graph as it turned. The newer pressure data loggers can be set up to record pressures at certain intervals of the day and can run for multiple days on a system. Some of the more complex data loggers can record pressure and water temperature and connect to a wireless network to have real-time data sent to your smart device.

SDARWS recently had the opportunity to help a water system with problems using pressure data loggers. The system had a customer who would periodically complain that they didn't have any water pressure in their home. The customer would call SDARWS when the problem occurred, and by the time we would get there to put a gauge on the house, the pressure would be back up to normal operating range. Every time we would go to this customer's house to check the pressure, we would also look around the system to see if something out of the ordinary would cause the user to lose pressure at their home. Nothing was ever found that would cause low pressure for this user.

SDARWS and the system operator decided to try putting pressure data loggers on the system at various points. The water system we tested is a small system with approximately 40 homes fed by two free-flowing wells that produce 60 GPM combined at 160 psi. The pressure is reduced through a pressure reducing valve to 60 psi before entering the system. Four pressure data loggers were used on the system:

1. Placed at the customer's home with the pressure problems.
2. Placed on a frost-free hydrant across the street from the home with the issue.
3. Placed on top of a hill by the well that fed water to the system.
4. Placed at the opposite end of the system.

These four pressure data loggers were placed on a Friday morning and set to record pressure readings every half an hour for four days. The weekend they were set to record the pressures was a holiday weekend – which was also a good test because that Saturday was almost 100 degrees, with one of the homes hosting a wedding with many people attending. The data loggers were collected on the following Tuesday, and the data was downloaded. After reviewing each logger location's data, we noticed that the system had quite a bit of a pressure swing during peak times. The pressure would fall to almost 40 psi at the low point and would be above 70 at the high points.

SDARWS discussed its findings with the operator of the system and told the operator that they believe the issue not to be a pressure problem but more of a volume of water problem. It

turns out that the lines fed to the area of the customer who was having low water pressure were only one-and-a-half-inch lines. Since they were also the last user on that line, other users could potentially use up the water before getting to the customer's home during high demand periods. SDARWS recommended two options,

1. The system could put a water storage tank at the high point of the system that the wells could fill, but with this option, booster pumps would have to be installed to boost the pressure unless an elevated tank was used. The tank options would be costly for the size of the system.
2. The one-and-a-half-inch line could be replaced with a larger line that would provide more water volume for the users in that area, which is probably the best option if that area wasn't going to see any more growth.

As you can see, pressure data loggers were the key to finding a possible problem with this system. They were able to record pressures that could have otherwise never been recorded. SDARWS uses pressure data loggers from time to time on water systems to help assist with pressure issues. If your system is having pressure issues, give SDARWS a call. 💧



Older style chart recorder pressure data logger



Newer style data logger that SDARWS Uses



MIKE MOELLER has worked for SDARWS since 2014. He previously worked at Dakota Pump and Control for five years, and served 30 years with the South Dakota National Guard. Mike also holds an Advanced Safety Certificate from the National Safety Council.



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NOT ALL LEAKS ARE OBVIOUS

By Nick Jackson, SDARWS Circuit Rider

As most of you know by now, South Dakota Rural Water is here to assist systems to operate more efficiently, and that often means finding water loss. Your Rural Water Association has the necessary equipment and specialized trailers to help you find those troublesome leaks or water losses that don't seem to surface or are just plain hard to find. Not all leaks surface!

But what if there is no leak? Now wait a minute, we know we have a water accountably issue, so there must be a leak! On many occasions, South Dakota Rural Water has responded to your plea for assistance with our technical assistance trailer and/or leak detection equipment but has determined no physical "break" within the distribution system. So, what is it?

Water leaks are more common than you think. With water loss within the distribution system, the culprit is generally directed towards worn water meters not capturing all the water being used, problem toilet flappers, underground irrigation leaks, and more. So how do we "fix" these water shortages? The need is to educate our customers – the water users.

Not all leaks are apparent; in fact, they can be insidious, making it crucial to catch and repair a leak as soon as possible. Every homeowner and user should know how to find a water leak.

There are basically two types of leaks that exist – catastrophic water leaks that ruin infrastructures and property; and then the costly water leaks that drive up water bills. The obvious are burst pipes, drippy faucets, toilet supply lines, appliance failures, and hot water tanks - all due to poor maintenance. The primary causes are leaky toilets, irrigation systems, and worn water meters.

Monthly water bills are generally predictable, so if you have one that's unusually high and the customer hasn't been using excess water, then there may be a leak. If a water bill seems to be low usage for the number of occupants, check to see if the meter is accurately recording all the water passing through it. Most water meters have a leak indicator. If you know that all water services are off and yet the meter still indicates flow, there is a leak. A simple test is to record the water meter reading while ensuring everything is off. After 15 minutes, recheck the water meter. Is the reading the same? If not it's time to take a look at appliances and fixtures.

Is there a faucet dripping? Toilets are the most common sources of leaks in the home and usually go unnoticed because the leaks are often silent and out of view. Generally, if the toilet is suspected, check to assure the water level inside the tank is not running down the overflow tube; if so, the float may need to be adjusted. The second culprit can be the flapper assembly. Add

a couple of drops of food coloring into the water tank and wait about 15 minutes to see if any color appears within the toilet bowl; if so, you have a leaky flapper assembly.

Check under the cabinets for puddles or dampness. Other indicators are wall discoloration, bubbling paint, bulging wallpaper, or sheetrock. Do you hear a dripping sound, especially at night when everything is silent? If everything seems fine inside, but what about outside?

Many homes have lawn irrigation systems. Everyone wants a lush green lawn, but if an area in the yard is much greener (and grows faster) than the rest of the yard, it could indicate the spot where a buried water line is leaking. If the leak is profuse, you might even have some wet areas on the surface of the ground.

Water damage is the second most filed claim in the United States. Damages can run into the thousands for repairs; however, the damage can be much more significant depending on what kind of damage you due to the leak. Mold is generally a greater expense overall. Yet, if no physical water loss is causing damage to the property, what about costly? Drippy faucets or a worn toilet flapper can leak 90 gallons per day or 0.06 gallons per minute, equating to 2,700 gallons per month. But most toilets that we hear or see can lose 1/8 gallons per minute or 180 gallons per day, equating to 5,400 gallons per month. Yes, toilets are the biggest culprit by far that go

unnoticed until the end of the month.

These are just a sampling of small water leaks that I've come across that did not surface and yet were not obvious. Let's educate the public on how they can find water leaks within their property. If your water system is experiencing a high-water loss situation, please give SDARWS a call. We will be glad to help you find those troublesome leaks that may not surface or not obvious. 💧



NICK JACKSON joined the SDARWS staff on 2001. He previously worked for seven years at the City of Custer Supervisor for the Water Department. Nick holds a Class II Water Distribution, Class II Water Treatment, Class II Wastewater Collection, Class II Wastewater Treatment and Stabilization Pond certifications. He is a certified instructor in First Aid, CPR, and AED instructor through the American Heart Association and the National Safety Council, and a certified South Dakota Restricted Plumbing Contractor since 2004. Nick also served 14 years in the United States Marine Corps, and then served 25 years in the South Dakota Army National Guard. Nick also volunteers with small Ambulance Services in south-western South Dakota.



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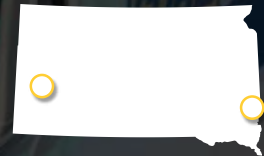
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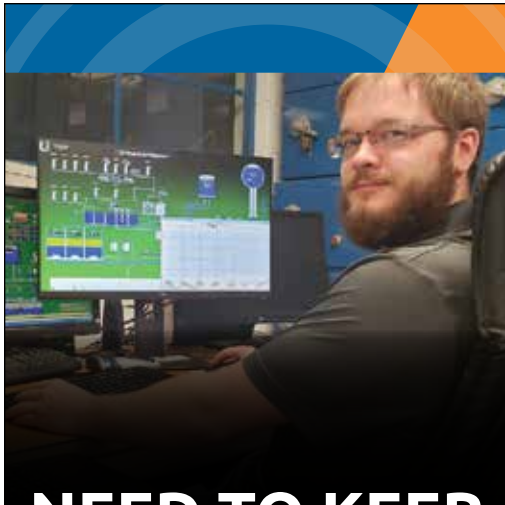
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CERTIFICATION PRACTICE QUESTIONS

1. HOW MANY MILLIMETERS (MM) ARE IN 1.5 LITERS (L)?

- a. None
- b. 1,500
- c. 150
- d. 1,500,000

2. HOW MANY MILLILITERS (ML) ARE IN 0.8 LITERS (L)?

- a. None
- b. 1,800
- c. 800
- d. 1,800,000

3. A FLOW OF 250 GALLONS PER MINUTE (GPM) IS EQUIVALENT TO HOW MANY GALLONS PER DAY (GPD)?

- a. 6,000
- b. 15,000
- c. 360,000
- d. 2,160,000

4. A FLOW OF 12 GALLONS PER DAY FROM YOUR CHEMICAL FEEDER IS EQUIVALENT TO HOW MANY MILLILITERS PER MINUTE?

- a. 16
- b. 32
- c. 48
- d. 51.4

5. AN AXIAL FLOW PUMP IS BEST SUITED FOR WHICH APPLICATION?

- a. High head
- b. Moderate head
- c. Low head
- d. All of the above

6. ALL THE DEVICES BELOW ARE USED TO MEASURE FLOW IN A PRESSURIZED PIPELINE EXCEPT:

- a. Venturi meter
- b. Magnetic meter
- c. Weir
- d. Turbine Meter

7. AN OPERATOR MUST SUBMIT QUARTERLY DISINFECTION RESIDUAL REPORTS TO DENR UNDER THE STAGE 1 DISINFECTANT/DISINFECTION BYPRODUCT RULE BY

- a. 28th day of the month
- b. 10th of the month following the end of the quarter
- c. 1st day of every month
- d. 15th day of the month following the end of the quarter

8. FOR SYSTEMS PROVIDING FIRE PROTECTION, MAINS HOOKED TO FIRE HYDRANTS SHOULD BE

- a. 2 inches
- b. 4 inches
- c. 6 inches
- d. 8 inches or larger

9. THE FITTING USED TO CONNECT THE SERVICE LINE TO A WATER MAIN IS CALLED:

- a. Curb stop
- b. Corporation stop
- c. Rolling stop
- d. Glove valve

10. ALL OF THE FOLLOWING CAN BE USED TO DISINFECT WATER MAINS EXCEPT:

- a. Chlorine Gas
- b. HTH
- c. Bleach
- d. DPD

1. A; 2. C; 3. C; 4. B; 5. C; 6. C; 7. B; 8. C; 9. B; 10. D

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FLEET Program

- The National Rural Water Association has created partnerships with motor groups to offer discounts to State Rural Water Associations and their utility system members.

- Member utilities should contact their State Rural Water Association to access the Rural Water Fleet Program.



GET YOUR BACK ON THE RIGHT TRACK

By Steve Attema, SDARWS Training Specialist

Back pain accounts for over 200 million lost workdays per year in the United States. In addition, about 80 percent of Americans will experience back pain at some point in their life. The amount of pain can range from minor annoyance to completely debilitating. The occurrence and amount of back pain you may experience depend on a few factors.

1. **Lifting weight** – the more an object weighs the more force and stress will be put on your back when it is lifted.
2. **Repetition** – the amount times you do a specific activity that can stress the back muscles, especially if there is a lot of repetition in a short time period and/or twisting of the spine.
3. **Posture** – extended times of sitting with poor posture can lead to back pain as well.
4. **Injuries** – Injuries from many different factors (including heavy lifting) can trigger or worsen back pain.

With all the ways back pain can occur lets focus on some of the ways we can prevent or limit the severity of back pain.

KEEP GOOD POSTURE

- When sitting, standing, lifting, and even sleeping make sure to keep good posture.

BE AWARE

- Make sure to take frequent breaks on activities that stress your back and get up and stretch at least once per hour when sitting/ working at a desk.

BE SMART

- Make use of devices / machines that limit or eliminate back stress from lifting heavy loads.
- If something is too heavy, ask one or more people to assist in the lift.
- Position your computer screen, mouse and keyboard in positions that promote good posture.
- Seek a health care professional when necessary, especially when the pain is severe.

LIFT PROPERLY

- Maintain the proper posture (natural spine curve) during



the entire lift.

- Lift with your legs, not your back.
- Avoid twisting, reaching, or rotating while lifting if possible.
- Tightening your core muscles as you lift can also help avoid back pain.

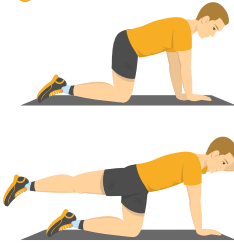
EXERCISE YOUR BACK

- Having a healthy lifestyle and staying active can help reduce or eliminate back pain.
- Targeted back stretching and core exercises can also help with back pain. The picture here shows some great ones to start with.

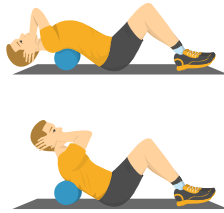
Taking these steps can go a long way in preventing or helping with back pain and injuries. 💧

EXERCISES TO RELIEVE BACK PAIN

1 BIRD DOG



2 THORACIC EXTENSION STRETCH



3 STANDING HAMSTRING STRETCH



4 CAT-COW STRETCH



5 BACK EXTENSION



6 KNEE TO CHEST STRETCH



7 SWIMMING



STEVE ATTEMA Steve Attema joined SDARWS in May 2014 as a Training Specialist. He previously worked for six years in industrial wastewater, and three years at Bolton & Menk, Inc. as an Environmental Engineer. Steve has a Bachelor of Science degree in Civil and Environmental Engineering (CEE) from South Dakota State University. He also holds a Class III Wastewater Treatment Certification, is an FAA certified Remote Pilot SUAS and holds Utility Management Certification with the NRWA. As a Safety Trainer, Steve holds an Advanced Safety Certificate from the National Safety Council, completion of OSHA's 30-hour General Industry Training Course and certified with the Board of Certified Safety Professionals as an Associate Safety Professional.

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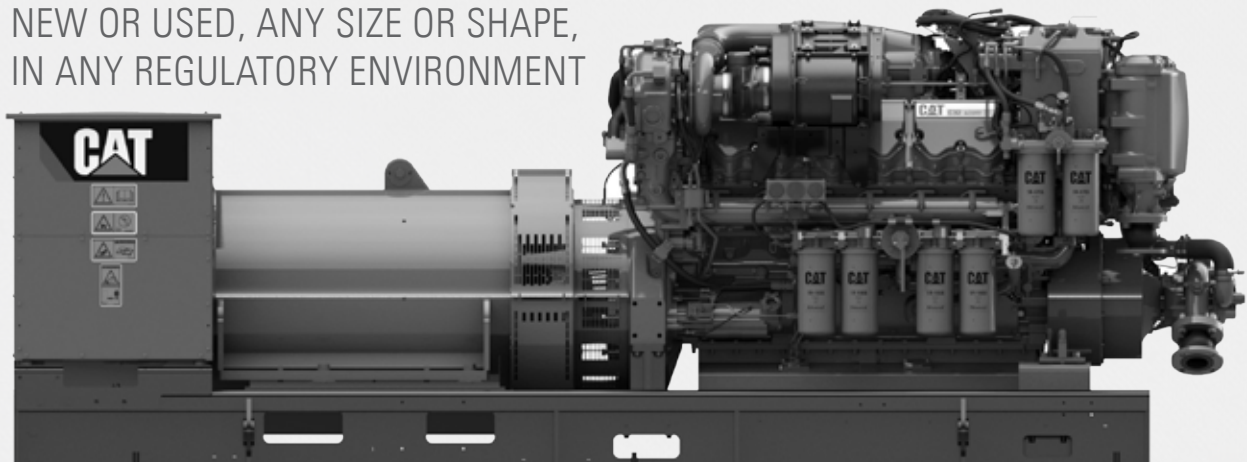
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PHOTOS FROM THE FIELD



Spinning valves in Pukwana with SDARWS Circuit Rider Jeff Fossum



Hydrant repair with a smile at Aurora-Brule RWS



The SDARWS crew practicing their drone flying skills



Inspecting Tulare's temporary pumping equipment with Board Chairman Brian Hull, City maintenance worker Archie Stanley, and Calvin Kindle from Mid-Dakota Rural Water System.



Poly-pigging in Corona, SD with SDARWS Wastewater Tech Danny Ayers



SDARWS Staff took part in a week-long hands-on course on backflow prevention.

To see more pictures of SDARWS in action, follow us on Facebook at www.facebook.com/SDRuralWater



FROM THE EXECUTIVE DIRECTOR

KURT PFEIFLE, EXECUTIVE DIRECTOR

In this strange and unprecedented time of COVID, we are all challenged with how to adapt and react to the situations presented to us, both at work, and in our personal lives. In this month's article, I'd like to share an article written by Erin Hayes, General Manager of the Kingbrook Rural Water System on how their system is dealing with protocols during the pandemic.

WHY COMPANIES DOING THE RIGHT THING MATTERS MORE THAN EVER

By Erin Hayes, General Manager, Kingbrook Rural Water System (Arlington, SD)

Construction in the middle of a COVID-19 Pandemic? This is when we show our employees, customers and communities who we really are and what matters the most, health and safety!

Kingbrook Rural Water System, Inc., constructed approximately three miles of in-town underground pipeline, 91 new user services, valves, and miscellaneous work in Oldham, SD over the summer of 2020.

Beginning with our "Advertisement for Bids," we had to structure the sealed bids for the construction of the rural water service to the City of Oldham Project and how they were received by Kingbrook Rural Water System. Due to COVID-19 restrictions, bidders and members of the public were NOT allowed to remain at the office for opening of the bids. Bidders and members of the public who wanted to participate in opening of the bids could do so via teleconference or videoconference.

The other considerations that had to be made are the preconstruction, homeowner face-to-face meetings and multiple times where contractor and operator will be side-by-side. SO, how does one work safely and keep our new members, contractors, utility locators and operators safe during this COVID-19 pandemic?

These challenging times are a stress test for everyone, and a litmus test for our values as an organization. Its about how you lead people through these unprecedented times. This is a defining opportunity to practice courageous leadership. This is the time to lean in and stand strong. This is when values truly matter. It is a time for all of us to show that we don't just sell something or make something – we stand for something.



We care deeply about helping workers, customers, and communities. The companies that match their actions to their values will undoubtedly be the successful ones that stay safe.

There are guidelines provided by the Centers for Disease Control and Prevention (CDC) urging the general public to wear "cloth face coverings" in public settings where other social distancing measures are difficult to maintain. Although the CDC recommendation is for voluntary use, an employer could be compelled to require certain employees to wear masks. If employees are considered "medium risk" for COVID-19 exposure because, for example, they have frequent contact with individuals within six feet, then using a mask may be required.

"Wearing a mask could be viewed as a form of administrative control and part of the employer's obligation to provide a safe workplace;" however, it's just awkward to not shake someone's hand when meeting and then not having the ability to see a friendly smile under that mask. We have never experienced anything like this in our lifetime and maybe feeling awkward will help keep us on our toes until such time a vaccine is available.

During these times, Kingbrook Rural Water System, Inc., will be adhering to the CDC guidelines and anytime we are within six feet from anyone on our Oldham, SD project, you will see our staff utilizing PPE (personal protective equipment), not shaking hands and remaining steadfast in our mission to keep ourselves and others safe. It is simply, the right thing to do! ♦

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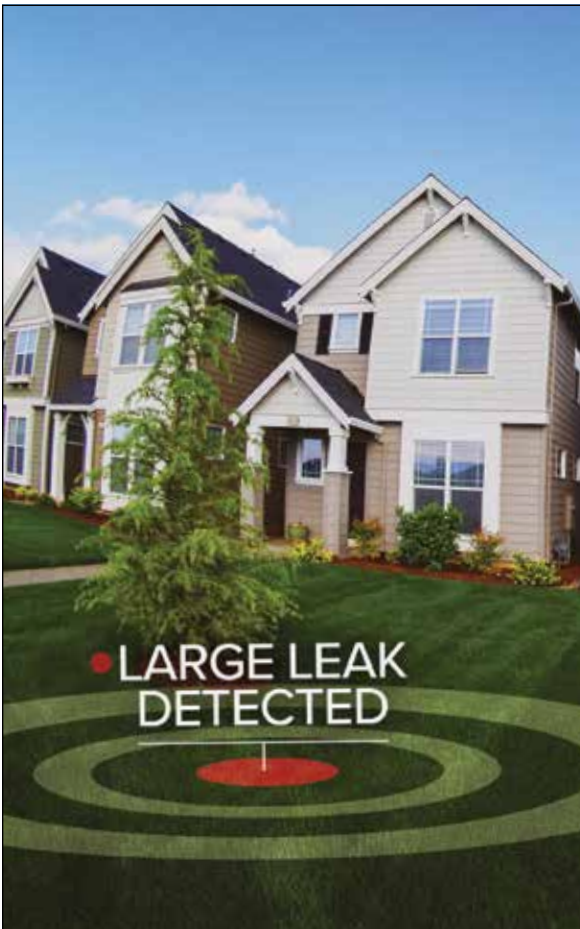
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