

# ServiceLine

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

## 2018 FISHING TOURNEY HIGHLIGHTS

Building Resilience  
at Your Utility

## EXPO RECAP

A DAY IN THE LIFE OF A  
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# FROM THE SDARWS PRESIDENT

RON GILLEN, SDARWS PRESIDENT

## PFEIFLE HIRED AS EXECUTIVE DIRECTOR

On April 5, 2018, Kurt Pfeifle assumed the position of South Dakota Rural Water's new Executive Director after the retirement of Dennis Davis. We are excited to have Kurt on board and look forward to working with him to advance the Association's mission. You can read more about Kurt on page 13.

## NRWA IN-SERVICE

In June, most of the Association staff traveled to Tulsa, Oklahoma for the National Rural Water In-Service Training. At In-Service, rural water professionals from around the nation gather together to train and discuss their work with others in their peer group. The goal of in-service is to learn about new techniques unique to each position, share expertise, and learn about new funding sources. If you see our guys around, ask them what new things they've learned.

## GOLF TOURNAMENT

Join us on July 17th for the 32nd Annual SDARWS 4-Person Scramble Golf Tournament at Elmwood in Sioux Falls. The tournament is a great opportunity to gather together with

other Rural Water folks for a day of camaraderie and fun. You can register your four-person team online at [tinyurl.com/SDARWSGOLF](http://tinyurl.com/SDARWSGOLF). All golfers need to be registered at the course by 8:30 am. Shotgun start is at 9:00 am. You can find more information on page 26. We hope to see you on the course!

## WATER PRO

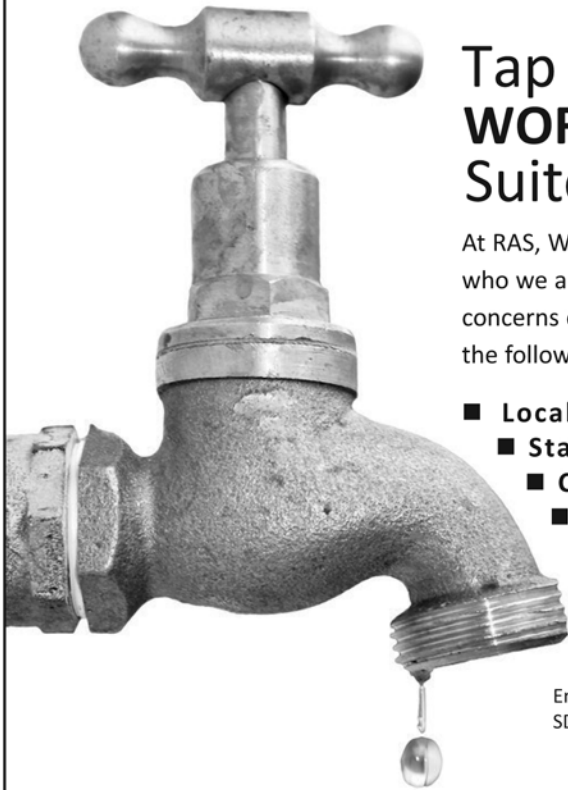
It isn't too early to start thinking about attending this year's WaterPro Conference in Fort Worth, Texas September 17-19, 2018. NRWA puts on a fantastic show which brings in hundreds of vendors and hosts informative training sessions in operations, management, boardmanship and governance for those involved in water and wastewater utility systems – large and small, municipal and rural. WaterPro features expert speakers from across the water/wastewater industry. Want to hear about new USDA projects or EPA priorities? You can find out at the WaterPro Conference. The WaterPro exhibit hall is filled with vendors and service-providers dedicated to offering high-quality solutions for small and rural water utilities. Find out about all the best solutions for rural water today and tomorrow. For more information on this conference, including registration and hotel reservations, please visit [waterproconference.org](http://waterproconference.org). 💧

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# Events Calendar

## JUNE

### 28 – SUSTAINABLE MANAGEMENT OF RURAL AND SMALL SYSTEMS WORKSHOP

**Mitchell Highland Conference Center**  
**2000 Highland Way • Mitchell, SD**

The workshop focuses on ten key management areas of effectively managed utilities, which make up a framework for a complete and well-rounded management approach. By making operational improvements in any of these areas, your utility will be able to deliver increasingly efficient, high quality services to your community.

This workshop is geared towards small water and wastewater systems and finance officers, mayors, city council members, and water/wastewater management are all encouraged to attend.

## JULY

### 10-12 – BASIC WATER TREATMENT

**Huron Crossroads Hotel**  
**100 4th Street SW • Huron, SD**

This course covers the Association of Boards of Certification “Need to Know” requirements for the Class I & II Water Treatment Exams. Class begins each morning at 8:00 a.m. local time and wraps up around 4:30 p.m. on Tuesday and Wednesday and approximately 11:30 a.m. on Thursday.

### 17 – 32ND ANNUAL RURAL WATER GOLF OPEN

**Elmwood Golf Course**  
**2604 Russell Street • Sioux Falls, SD**

Make plans to join South Dakota Rural Water and our other Rural Water friends for an enjoyable day of camaraderie and fun! Registration includes: 18 holes of golf, riding cart, luncheon & prizes! Register online at [sdarws.com](http://sdarws.com) or: [tinyurl.com/SDARWSGOLF](http://tinyurl.com/SDARWSGOLF)

## AUGUST

### 7-9 – WATER DISTRIBUTION

**Aberdeen Ramkota**  
**1400 8th Avenue NW • Aberdeen, SD**

This course covers the Association of Boards of Certification “Need to Know” requirements for the Class I through III Water Distribution Exams. This course only covers the material for Water Distribution. Operations Specialists who wish to attempt a Wastewater Collection Exam should attend the Wastewater Collection Course. Class begins each morning at 8:00 a.m. local time and wraps up around 4:30 p.m. on Tuesday and Wednesday and approximately 11:30 a.m. on Thursday.

### 28-30 – WASTEWATER COLLECTION

**Watertown Events Center**  
**1901 9th Avenue SW • Watertown, SD**

This course covers the Association of Boards of Certification “Need to Know” requirements for the Class I through III Wastewater Distribution Collection Exams. This course only covers the material for Wastewater Collection. Operations Specialists who wish to attempt a Water Distribution Exam should attend the Water Distribution Course. Class begins each morning at 8:00 a.m. local time and wraps up around 4:30 p.m. on Tuesday and Wednesday and approximately 11:30 a.m. on Thursday.

## SEPTEMBER

### 25-27 – INTERMEDIATE WATER TREATMENT

**Spearfish Holiday Inn**  
**305 N. 27th Street • Spearfish, SD**

This course covers the Association of Boards of Certification “Need to Know” requirements for the Class II & III Water Treatment Exams. Class begins each morning at 8:00 a.m. local time and wraps up around 4:30 p.m. on Tuesday and Wednesday and approximately 11:30 a.m. on Thursday.

## OCTOBER

### 16 – BASIC WASTEWATER TREATMENT

**Rapid City Ramkota**  
**2111 N. LaCrosse Street • Rapid City, SD**

This course covers the Association of Boards of Certification “Need to Know” requirements for the Class I & II Wastewater Treatment Exams. This course does not cover the material included in the Stabilization Pond Exam. Operators who will be attempting the Stabilization Pond exam should consider the Stabilization Pond Workshops. Class begins each morning at 8:00 a.m. local time and wraps up around 4:30 p.m. on Tuesday and Wednesday and approximately 11:30 a.m. on Thursday.

### 30 – STABILIZATION POND WORKSHOP

**Aberdeen Ramkota**  
**1400 8th Avenue NW • Aberdeen, SD**

This course covers the material on the Association of Boards of Certification Stabilization Pond Exams. It does not cover material on Class I or higher Wastewater Treatment Exams. This is a single day workshop starting at 8:30 a.m. local time and wrapping up around 4:30 p.m.

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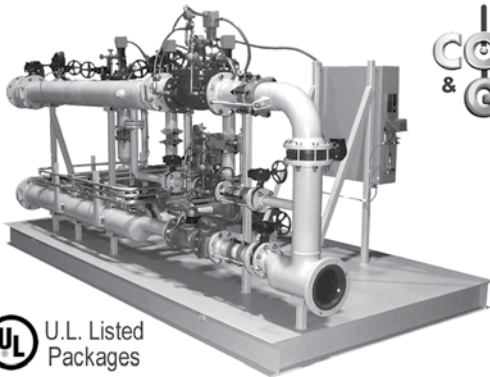
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# SDARWS MEMBERSHIP CORNER

## NOTICE:

If your water or wastewater system is developing a project that involves land situated on Conservation Reserve Program (CRP) acres, has Farm Loan Program (FLP) loans, or Farm Storage Facility Loans (FSFL), you should contact your local Farm Service Agency early on in the process. If Rural Development is involved in the funding of said project, you should also contact your local RD office.

## ARTICLE SUBMISSIONS

Does your company have information to share that would be of value to our readership? If so, we would welcome your article submission for *ServiceLine Magazine*.

To send us an article, please email: [jbame@sdarws.com](mailto:jbame@sdarws.com).

**NOTE: SDARWS reserves the right to refuse any and all article requests.**



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**JULY 17, 2018**

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# SDARWS MAILBAG



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TIMBER LAKE, SOUTH DAKOTA 57676  
TELEPHONE: 605-865-3790  
FAX: 605-865-3168  
WEB: <http://www.tisd.us>

December 4, 2017

Dennis Davis  
South Dakota Association of Rural Water Systems  
PO Box 287  
Madison SD 57042

Dear Mr. Davis:

Please accept this letter of appreciation from the City of Timber Lake. The City is extremely grateful to Mr. Jerry Hemeyer, Wastewater Technician for South Dakota Association of Rural Water Systems, for his assistance, expertise, and technical assistance.

He has provided tremendous assistance to the City of Timber Lake over many years. Most notably, however, is his recent assistance with polly-pigging the sewer force main from the lift station to the sewer lagoon. This system was installed in the 1980's and had never been cleaned. With Hemeyer's assistance, the line was cleaned which increased the flow from 138 gallons per minute to 208 gallons per minute. This significant system improvement will decrease the electrical costs and reduce pump maintenance costs for the City of Timber Lake.

The City of Timber Lake greatly relies on Jerry for his assistance, expertise, and guidance. The City would experience a true hardship if we did not have valuable resources like Mr. Hemeyer and the SD Association of Rural Water Systems readily available.

Thank you, Jerry!

Sincerely,

  
Clyde E. Pfeifle, Mayor  
City of Timber Lake

**City of Emery**  
Joshua Kayser, Mayor  
P.O. Box 38  
Phone: 605.449. 4455  
Kristi Wollmann, Finance Officer  
560 South Dakota Highway 262  
Emery, South Dakota 57332  
Email: [emerycity@triotel.net](mailto:emerycity@triotel.net)  
Website: [www.cityofemerysd.com](http://www.cityofemerysd.com)  
Fax: 605.449.4466

South Dakota Association of Rural Water Systems  
Attn: Kurt Pfeifle, Executive Director  
203 West Center Street  
PO Box 278  
Madison, SD 57042

Dear Mr. Pfeifle,

I would like to tell you how much I appreciate the assistance and expertise from Greg Gross and Bill Thorson.

I am the City of Emery's Maintenance Supervisor and have only been on the job for less than 6 months.


I have had the pleasure of knowing Greg for many years. Greg stops in to see me occasionally and offers help and expertise, so when I mentioned my need for assistance with the city's wastewater system, he helped me take a look at what I needed and was able to connect me with Bill.

Bill contacted me and asked if I had all the supplies to test the wastewater system, and I said no. Bill made some phone calls and was able to procure all of the supplies and had them mailed to me before we even met. Bill then arrived and trained me on how to test and maintain Emery's 3 lagoons and wastewater lift station.

Without Greg's help in contacting Bill, and Bill's assistance and expertise I would not have been able to safely discharge and maintain Emery's 3 lagoons and wastewater system per the City of Emery's State of South Dakota permit regulations.

Your employees are wonderful to work with, and I look forward to working with them in the future.

Sincerely,



Dale Mesman  
City of Emery Maintenance Supervisor

CITY OF  
**Lennox**

PO BOX 228 • 407 SOUTH MAIN • LENNOX, SD 57049 • (605) 617-2286 FAX: (605) 647-2281 FAX

December 11, 2017

The City of Lennox would like to thank South Dakota Association of Rural Water Systems for their efforts in assisting with discharge permit exceedances we were having at our Wastewater Treatment Facility.

Our treatment plant effluent was having high BOD, TSS and Ammonia level issues, which led to permit violations. After SDARWS observed a settleometer test and viewed the sample under a microscope they determined it was filamentous organisms that were causing the sludge bulking issue that led to the violations. SDARWS recommended chlorinating the treatment basins to kill off the filamentous organism. We did this under their recommendation which eventually led to us getting back into compliance with our permit.

SDARWS also arranged to have samples sent to a lab in Aberdeen to identify the type of filamentous organism. This lab determined that it was a filamentous organism that flourished in low dissolved oxygen conditions. SDARWS recommended we increase our dissolved oxygen to prevent future occurrences.

We just want to say thank you again. This resource is extremely valuable to us and we appreciate all the expertise, time and effort to help us with this issue.

Sincerely,



Jeremy Gulbranson  
Utility Manager, City of Lennox

## PLEASE SEND LETTERS!

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# PFEIFLE HIRED AS NEW SDARWS EXECUTIVE DIRECTOR



**KURT PFEIFLE**  
**SDARWS EXECUTIVE DIRECTOR**

**T**he Board of Directors for the South Dakota Association of Rural Water Systems welcomes Kurt Pfeifle as its new Executive Director. He replaces Dennis Davis who retired this past April after 39 years with the Association.

Pfeifle comes to the Association with 31 years of water management experience. He was the manager of the West-River Lyman/Jones Rural Water System from 1986 to 1991, after which he managed the Mid-Dakota Rural Water System for the past 25 years.

“Kurt’s background and familiarity with the key functions of the SDARWS mission will have an immediate impact on the service we provide to all of the rural water users in South Dakota, said Ron Gillen, SDARWS Board Chairman. “I look forward to helping him as we keep moving forward. He truly is an asset we should build on.”

After attending business school for one year at National College of Business, Pfeifle received his degree from Mitchell Technical Institute. Throughout his tenure, he has been a member of the South Dakota National Guard (13 years), Murdo City Council, and Miller School Board. Pfeifle was appointed and served five years on the Board of Commissioners for the South Dakota Housing Development Authority, and served on the South Dakota One Call Board as a representative for rural water systems.

The South Dakota Association of Rural Water Systems is a membership organization headquartered in Madison, SD with a satellite office in Spearfish. For over 40 years, SDARWS has been well-respected for the high-quality training, services, publications and advocacy they provide their water and wastewater members in South Dakota. The association employs 12 individuals and trains hundreds of individuals in all aspects of water and wastewater management through workshops, training classes, and conferences. SDARWS also produce the consumer magazine, *Quality on Tap!* which is a cooperative effort between 17 rural water systems and the Association and reaches over 38,000 rural water households throughout the state. They also support research programs like the Regional Water Research Consortium and the Water & Environmental Engineering Research Center and are committed to the long-term sustainability of rural water systems. They have also lobbied successfully against sales taxes on water and other pertinent issues while also supporting issues that are important to rural water systems such as the railroad bill, battling the Corps of Engineers over water rights, and supporting continued funding of the state Water Omnibus bill. ♦

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# PHOTOS FROM THE FIELD



*SDARWS Wastewater Technician Bill Thorson captured this giant snapper in a wastewater lagoon on his cell phone while assisting the City of Emery.*



*Safety Trainer Steve Attema stops for a selfie while GIS mapping in Centerville.*



*"Retired" SDARWS Circuit Rider Morris Elcock was spotted by his replacement Jeff Fossum fixing some water issues.*



*Circuit Rider Brant Ager learning about new correlator equipment with Michael Carothers from Sewerin.*



*Source Water Protection Specialist Jeremiah Corbin setting up for the Big Sioux Water Festival on the SDSU campus in Brookings*

## LENNOX METER BUILDING DEDICATED TO DENNIS WEELDREYER



Dennis Weeldreyer recently had a meter building in Lennox dedicated in his honor after his retirement from Lewis & Clark Regional Water System's board after 15 years. Weeldreyer also retired from the South Dakota Association of Rural Water System's board after six years, with three of those also on the SDARWS Rural Water Center board. He also served 18 years on the Lennox City Council, five years as Mayor of Lennox, 12 years as a Lincoln County Commissioner, and eight years serving the Inter-Lakes Community Action Partnership.

"He has certainly earned a well-deserved retirement from public service," said Troy Larson, Executive Director at Lewis & Clark. Larson said he estimated that Weeldreyer spent a total of 6,000 hours in meetings and travel for all of his public service work.

At the meter building dedication, Lennox Mayor Orville Wiebers declared May 14, 2018 as Dennis Weeldreyer day.

Lewis & Clark Vice-Chairman Murray Hulstein also offered his remarks. He said, "When I think of Dennis terms like trustworthy, hardworking, dedicated, humble and unassuming come to mind. These attributes, along with his smile, laugh and firm handshake, served him and the public very well during his tenure on the Lewis & Clark Board, as I'm sure on the Lennox City Council, Lincoln County Commission, SD Association of Rural Water System and other organizations Troy talked about." ♦

To see more pictures of SDARWS in action, follow us on Facebook  
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# Building Resilience at Your Utility

Water utilities in South Dakota may be concerned about several natural disasters including flooding, severe winter storms, drought, high winds, heavy rains and blizzards. While disasters can be overwhelming, you can take steps to prepare your community and utility in advance. The United States Environmental Protection Agency (U.S. EPA) has developed several free resources to help you prepare for emergencies and mitigate the potential for future damages. Four tools that can help your utility become more resilient are: **Route to Resilience Tool**; **Hazard Mitigation Guide for Natural Disasters: A Starter Guide for Water and Wastewater Utilities**; **Water Utility Response On-The-Go Mobile App** and **Flood Resilience Guide**.

The U.S. EPA's **Route to Resilience Tool** is an ideal first step for identifying resources that can help prepare your utility for emergencies. This tool walks users through five major areas: Assess, Plan, Train, Respond and Recover. In each of these areas, videos provide an overview of what it means to achieve basic and advanced levels of resilience. After answering a few questions about your utility's capabilities, you will receive a customized list of resources that will help your utility prepare for, respond to and recover from an emergency.

**Download the tool to start building resilience today at [www.epa.gov/waterresilience/route-resilience-drinking-water-and-wastewater-utilities](http://www.epa.gov/waterresilience/route-resilience-drinking-water-and-wastewater-utilities).**

The **Hazard Mitigation Guide for Natural Disasters: A Starter Guide for Water and Wastewater Utilities** is designed to help utilities use their local communities' hazard mitigation process to identify and submit hazard mitigation



projects for funding. Mitigating against the impacts of disasters is always less expensive than rebuilding from scratch after the event occurs. The guide provides examples of mitigation projects for flooding and other scenarios that South Dakota water utilities might face, as well as links to mitigation resources, such as the Incident Action Checklist for Flooding. The **Hazard Mitigation Guide** also provides information on funding sources; by integrating your mitigation planning into the local community plan, you may be eligible for additional funding such as federal grants or loans.

**Download the Hazard Mitigation Guide at [www.epa.gov/waterutilityresponse/hazard-mitigation-natural-disasters-starter-guide-water-and-wastewater](http://www.epa.gov/waterutilityresponse/hazard-mitigation-natural-disasters-starter-guide-water-and-wastewater) to start identifying hazard mitigation projects.**

When your utility faces an oncoming emergency, you can use the U.S. EPA's Water Utility Response On-The-Go (Response OTG) Mobile Application to respond in real time and in the field. Using this interactive tool, you can track severe weather, contact response partners, identify actions to take and inform incident command, all from your phone. For example, if your service area is experiencing extreme cold and winter storms, you can use an incident action checklist in the app, find regularly updated contact information for response partners and track the storm via the Storm Prediction Center.

...continued on page 33



# WATER TECHNOLOGY EXPO

## 2018 RECAP

*By Jeremiah Corbin,  
SDARWS Source Water Protection Specialist*

South Dakota Rural Water recently conducted the 7th Annual Water Technology EXPO. This annual event held in Rapid City on April 25-26, is designed to provide training opportunities for municipal, small, and rural water systems located throughout western South Dakota.

The EXPO objectives are to provide opportunities for water system personnel to network with manufacturers, suppliers, and each other to exchange ideas on how to properly operate and maintain their systems. Over the course of this day and a half training event, attendees were provided ample opportunity to network with EXPO exhibitors. Many of the 36 exhibitors in attendance were pleased to offer their expertise to the nearly 60 water systems represented. Total attendance topped out at 164.

The EXPO began with a presentation by Chad Sparks with Midland GIS Solutions. Sparks discussed the world of GIS and asset data management. His presentation revolved around gathering information about systems, organizing that data and distributing that information back out to the field for staff to utilize in their workflow.

The second presentation of the EXPO provided the attendees with information on green energy. Tanner Jobgen of GenPro Energy discussed alternative energy solutions for pumping. He described the many uses of solar energy in the water industry regarding off-grid power and energy savings through peak shaving. The price of solar has decreased significantly over the past few years, and the panels have become more efficient and are rugged enough to withstand our regional storm events.

Following a break that provided attendees with a good opportunity to meet with exhibitors, Al Hansen with Hawkins Water Treatment spoke. Hansen's presentation covered the topic of a "green" way to odor control, and he provided recommendations and best practices for addressing odor control in wastewater environments.

Our final presentation of the morning of the first day came from Erin Dreis of DENR. She provided an excellent presentation on how water and wastewater utilities need to take the lead in instilling community trust in their water systems. Additionally, she offered several examples of good communication and bad communication and the power of perception regarding how consumers view the safety of their water.

After lunch, Jamie Mays of SUEZ Advanced Solutions offered insight into the value of a water storage tank asset management plan. Mays provided attendees with several examples of incidents that have occurred over the last several years because of water quality issues in storage tanks. Jamie outlined the different physical components of tanks that should be addressed in an inspection. Regularly maintaining





these assets and including scheduled inspections are vital to achieving the maximum value of storage tanks.

In a bit of a change up in pace, Larry Janes the Executive Director of SD811 provided a presentation on damage prevention. This presentation was a good reminder of why you should always call before you dig.

Our next presentation took us to new heights with a discussion on utilizing UAV's (Unmanned Aerial Vehicles) for rural water systems. As the price of these devices has come down and the functionality has increased, more and more systems are finding UAVs a valuable tool for survey and inspection work.

Following the afternoon break, Chris Ruskamp with American Flow Control demonstrated several pieces of equipment that incorporate new technologies. The Alpha Joint Restraint has been utilized in several South Dakota communities as a replacement for traditional couplers. Additionally, Ruskamp displayed the ID tag system that American Hydrants use for simple GIS data acquisition.

Our next presentation was a demonstration of leak detection equipment. Michael Carothers of Leak Locators of Montana described the different leak sounding equipment that is available today and provided the advantages and disadvantages of each piece. He covered a wide range of equipment; examples included simple sound amplification equipment, leak correlators to a Labrador that can locate natural gas leaks.

The final presentation of the first day was provided by Will Lind of Dakota Pump out of Rapid City. Lind discussed the SCADA system options that Dakota Pump offers and cautioned attendees about common missteps companies can take when it comes time to upgrading their SCADA system.

Day two of the EXPO began with a presentation by Craig Steve of Medora Corporation. Steve presented the many uses for tank mixing equipment. The applications varied from large ponds to ground storage tanks. Tank mixing has

become a priority for many systems for water quality to asset management concerning minimizing ice damage in storage tanks.

The second presentation of day two was an overview of the ever-changing world of high precision GIS equipment. David Siddel with CompassTools presented the wide range of hardware that Trimble has available for field data collection. This equipment varies from stand-alone to cloud-based.

After the morning break, Nathan Kupfer with Midstates VRS discussed their Virtual Reference Station (VRS) network that is available in North and South Dakota. This technology is a service that allows real-time corrected data collection for GNSS devices within the network. With limited coverage by CORS base stations in this area, a VRS network is a good solution for collecting data in our region.

The final formal presentation at the EXPO was by Rural Development community programs director Tim Potts. Potts reviewed requirements of RD funding and gave insight to the funding that is available in South Dakota for water and wastewater projects.

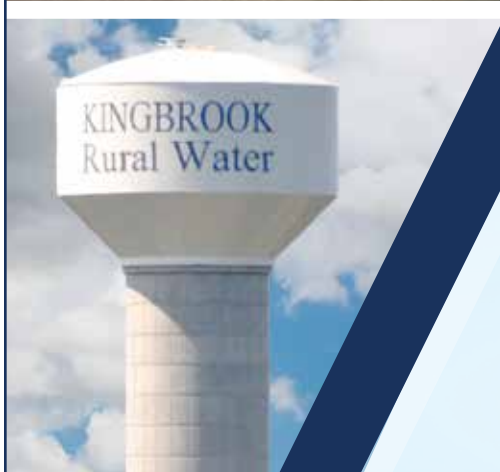
Our final presentation of the EXPO was a plant tour of the WL Plastics manufacturing facility located a short distance from the Rapid City Ramkota.

Many of the EXPO attendees are certified operators and are interested in attaining necessary contact hours to renew their certification license. With the approval of ten contact hours by SD DENR Certification Secretary Rob Kittay, attendees gained valuable knowledge and assisted with the regulatory requirement for maintaining their certification status.

The EXPO would not be possible without the support from the 36 tabletop exhibitors. We offer special thanks for their support in bringing valuable training and professional resources that genuinely benefited EXPO attendees.

The 2019 Technology EXPO is scheduled for April 24-25 at the Rapid City Ramkota, so be sure to mark your calendar! ♣





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# A DAY IN THE LIFE OF A **SAFETY TRAINER**

---

## STEVE ATTEMA



**What was your first job?** Well as far back as I can remember I was an unpaid farm laborer on a dairy farm. In regards to the unpaid portion though after some thought now that I am a parent I realize that the room, board and my parents putting up with raising a stubborn boy, the value is priceless. My first paid job was a produce clerk at Sav-U-More / Hy-Vee in Yankton.

**What was your first water related job?** I was a student operator and eventually lab technician at the Brookings Wastewater Treatment Facility while I was going to school at SDSU in Brookings. My first job after college was at Bolton & Menk, which is an engineering firm in Mankato, MN where I worked as an on-site engineer for water and wastewater treatment plant construction.

**What does your typical day as a Safety Trainer entail?** Well, there is no typical day as a safety trainer. If I am out doing training, I usually travel to two different systems and give a two-hour presentation at each. On other days I am developing the next safety topic, out doing technical assistance under another program or preparing training under another program.

**What's your favorite thing about being a Safety Trainer?** The learning and the people I come in contact with. In researching any safety topic, I get quite a bit of knowledge on that topic but what I really enjoy is learning from the systems where I conduct training. Real world situations and problems that arise are where I learn the most.

**What is the most important safety topic all water operators need to pay attention to?** It is really tough to pin down one safety topic, but in your question, it says exactly what I think the number one thing to focus on is: PAYING ATTENTION. It can be tough to pay attention and think about safety in your day to day work. You get comfortable doing things a certain way, you think it won't happen to you, or you try to save time by taking risks you know are there. In almost any circumstance something can happen that can severely injure or kill you. In nearly all of those circumstances there is a precaution that could have been taken to prevent the accident.

If I had to nail this down to one topic though it would be driving safety. Driving is something that operators, managers, office staff most likely do every day even if it is just to and from work. It is also one of the leading causes of death (on and off the job), and there are distractions everywhere that can take your focus off the only task you should be doing, which is driving safely.

**How do you think rural water systems could operate more effectively?** Preventative maintenance (including tests on the water): you can pay for it now, or pay more for it later.

**What's the best advice you could give to rural water systems?** Make sure everyone gets home safe to their loved ones. If you are a supervisor/manager make sure your employees have all the tools, equipment and know-how to work safely. If you are an employee – make sure to look out for your co-worker; if they are doing something that is unsafe, cordially let them know.

**What advice would you give to a young person who wants to embark on a water career?** This is an incredibly rewarding and fulfilling career; rewarding because there are many opportunities for advancement, and there are many different career paths you can take, fulfilling because you are providing a means for and protecting the health of your community or people in your system as well as protecting the environment. ♦



# 2018 RECAP

*By Mike Moeller, SDARWS Technical Assistance Training Specialist*

The South Dakota Association of Rural Water Systems held its 3rd annual fishing tournament April 28th, 2018 at Cedar Shore Resort in Oacoma. There was a total of 23 two and three-person teams that made it out for a sunny day of fishing.

A rules meeting was held the night before the tournament, and the tournament started with a shotgun start at 7:00 am on the 28th. All were teams staged in the marina at Cedar Shore until the signal was given to start the day of fishing.

As teams headed out they were instructed to be back and weighed in by 3:00 pm and had to follow state fishing rules. At the end of the day each team could weigh in up to seven walleyes. A couple of changes that we made this year was

the addition of a prize for the largest walleye, and a prize for the largest non-walleye that was caught. A team could weigh in one fish other than their seven walleyes and pick out their largest walleye for the chance to win a \$100 Scheels gift card that was donated to the tournament.

Congratulations go out to the first place team from DSG/Grant-Roberts Rural Water System who took home \$1,000! \$500 was awarded to the second place team from Aurora-Brule Rural Water System, \$300 to third-place team Pierre Wack Em Eyes, and \$200 to the Ganschow team who came in fourth place.

Other than the cash prizes for the four-top team finishes many door prizes were given away. The prizes were given out by names drawn from a hat. We would like to extend a special thanks to all the businesses that donated items to be given away as door prizes.

All in all, it was a good day for fishing, and many teams had pretty good luck catching fish. Of the 23 teams that entered the tournament 11 of those teams weighed in fish. There was a total of 113.35 pounds of fish caught with 100.45 pounds of that being walleyes. The largest walleye that was caught was 4.75 pounds and the largest non-walleye caught was a catfish weighing 4 pounds.

After the tournament on April 28th, a meal was provided for all attending the fishing tournament at which time the winners were announced.

Mark your calendars for the fourth annual South Dakota Rural Water fishing tournament that will be held April 27th, 2019 with the rules meeting held the evening before. The location of the tournament has yet to be decided, but I can guarantee you it will be on the Missouri River.

A special thanks to all the sponsors who make the accommodations and the meal after the tournament possible.





The first place team: Brent Hoffman (Grant Roberts), Rick Robinson (DSG), and Todd Kefler (Grant Roberts). They weighed in 7 walleye totaling 13.5 pounds



2nd Place Team – Aurora Brule Rural Water



3rd Place Team – Pierre Wack Em Eyes



4th Place Team – Team Ganschow pictured with SDARWS Tournament Coordinator Mike Moeller



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# NRWA Grateful for Congressional Appropriations Providing Robust Funding to Support Rural Water Infrastructure

The National Rural Water Association (NRWA) is grateful for the beneficial support of Congress with its recent approval of robust funding levels targeted to rural America. These appropriations will provide much needed assistance to rural water infrastructure through the U.S. Department of Agriculture's (USDA) rural water and economic development initiatives.

"Rural and small-town USA are very grateful to Congress in recognizing the unique success of this initiative. Over the last 70 years, through the funding provided by Congress, USDA's rural water initiatives have made great advancements in the standard of living in Rural America," NRWA CEO Sam Wade said. "These rural water infrastructure initiatives have been the engine of economic development and agricultural-related advances in rural communities, and they have provided for dramatic improvements to the environment and public health."

In March 2018, Congress provided the largest annual appropriation in history to the USDA rural drinking water and sewer infrastructure programs of \$1,060,000,000. This level is almost double the total amount provided in the previous year. The Appropriations Committee also provided Rural Development the maximum flexibility to use the \$1.060 billion to support billions of dollars in direct loans and over \$950 million for grants targeted to eligible rural utilities. The current backlog for the USDA Water and Sewer Loan and Grant program is approximately \$3 billion in applications. This funding and flexibility provided is more than adequate to address the entire current backlog.

Congress has just begun the fiscal year 2019 appropriation process and the initial efforts by both the House and Senate provide continued support to address rural community's water and waste water needs as follows:

On May 16, 2018, the House of Representatives Appropriations Committee approved the USDA fiscal year 2019 budget bill including \$637,690,000 for USDA rural water infrastructure.

On May 24, 2018, the Senate Appropriations Committee

approved their version of the USDA budget bill including \$958,183,000 for USDA rural water infrastructure.

"We worked hard to craft a strong agriculture funding bill that provides our small rural communities, farmers and ranchers with the resources they need to overcome the challenges they face in farm country," said North Dakota Senator John Hoeven, Chairman of the Agriculture Appropriations Subcommittee. "This bill makes responsible investments in critical farm service programs, agricultural research and rural development programs to reaffirm our commitment to growing rural America."

"USDA's rural water loans and grants are essential to helping rural communities overcome the limited economies of scale and low median household incomes to provide safe and affordable drinking water and sanitation. The initiative funds construction and expansion of drinking water and wastewater infrastructure through grants and loans provided at reasonable rates and terms. Without this assistance, many communities would not have the means to construct new water systems, expand existing systems, or comply with federal mandates," stated Steve Fletcher, NRWA President and Manager of the Washington County Rural Water Company in Nashville, Illinois.

Most U.S. water utilities are small. More than 91 percent of the country's 50,259 drinking water systems serve communities with fewer than 10,000 people, and approximately 80 percent of the country's more than 14,500 wastewater systems serve fewer than 10,000 people.

"We want to acknowledge both the House and Senate and especially the Appropriations Committee members for recognizing the need to increase in investments in Rural America to maintain and upgrade the Nation's aging infrastructure," Wade expressed, "Because of this continued support millions of rural Americans have access to affordable and safe public water that their parents did not have and thousands of rural communities have public sewer or wastewater systems that have allowed for elimination of millions of questionable septic tanks, cesspools, straight pipes, or worse."◆

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# TAKE A SHOT!

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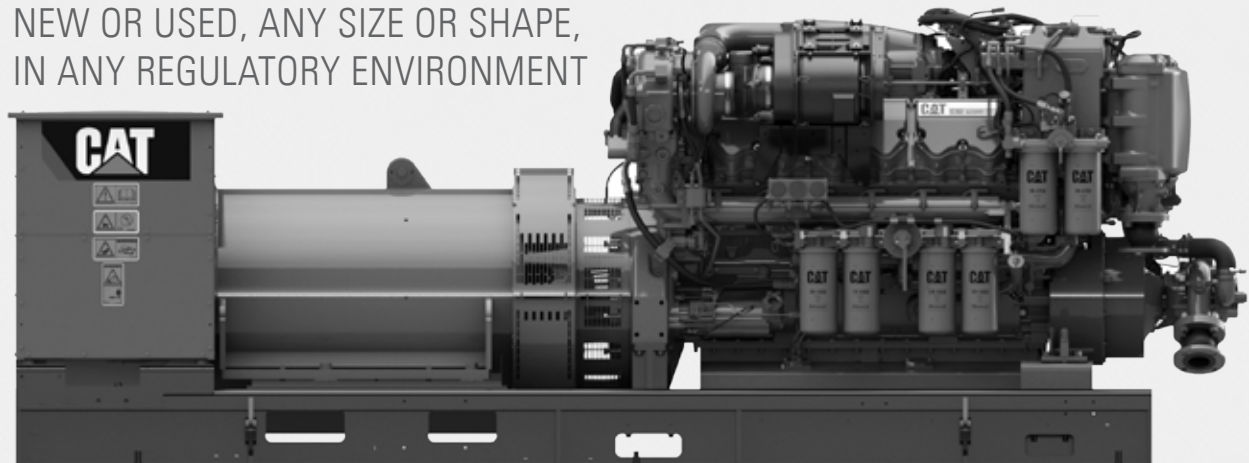
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**1 A 500 HORSEPOWER MOTOR IS EQUAL TO HOW MANY KW?**

- a. 250 KW
- b. 324 KW
- c. 373 KW
- d. 228 KW

**2 YOUR MOTOR DRAWS 35 KW, HOW MANY HORSEPOWER IS THIS EQUIVALENT TO?**

- a. 47 Hp
- b. 53 Hp
- c. 41 Hp
- d. 36 Hp

**3 YOUR PUMP PUMPS AT 700 GPM AT A PRESSURE OF 65 PSI. WHAT IS THE WATER HP FOR THIS PUMP?**

- a. 33 Hp
- b. 27 Hp
- c. 22 Hp
- d. 41 Hp

**4 YOUR PUMP PUMPS AT 700 GPM AT A PRESSURE OF 65 PSI IF THE PUMP EFFICIENCY IS 85%, WHAT IS YOUR BRAKE HP?**

- a. 32 Hp
- b. 21 Hp
- c. 24 Hp
- d. 42 Hp

**5 YOUR PUMP PUMPS AT 700 GPM AT A PRESSURE OF 65 PSI, THE PUMP EFFICIENCY IS 85% AND THE MOTOR EFFICIENCY IS 70%. WHAT IS YOUR MOTOR HP?**

- a. 27.5 Hp
- b. 38 Hp
- c. 43.2 Hp
- d. 46 Hp

**6 THE FLOW FROM YOUR PUMP IS 1400 GPM AT A PRESSURE OF 125 PSI. YOUR PUMP EFFICIENCY IS 93% AND YOUR MOTOR EFFICIENCY IS 88%. WHAT IS THE MOTOR HP?**

- a. 100 Hp
- b. 95 Hp
- c. 130 Hp
- d. 125 Hp

**7 IF THE PUMP IN PROBLEM #6 RUNS FOR AN AVERAGE OF 18 HOURS/DAY AND YOUR ELECTRIC RATE IS \$0.045/KW, WHAT WOULD BE THE ELECTRIC COST TO RUN THAT PUMP FOR ONE YEAR?**

- a. \$24,875.00
- b. \$31,288.11
- c. \$27,569.36
- d. \$18,148.28

**8 YOUR MOTOR USES 30 KW OF ELECTRICAL POWER AND HAS A WATER HP OF 35 HP. WHAT IS THE OVERALL EFFICIENCY OF THE PUMP AND MOTOR?**

- a. 91%
- b. 86%
- c. 78%
- d. 87%

**9 THE FLOW METER ON YOUR PUMP READS 340 GPM AND THE PRESSURE GAUGE READS 78 PSI, WHAT IS THE WATER HORSEPOWER FOR THIS PUMP?**

- a. 21.2 Hp
- b. 15.5 Hp
- c. 13.2 Hp
- d. 9.6 Hp

**10 WHAT IS THE MHP FOR A PUMP CAPABLE OF PUMPING 5000 GPM AT A PRESSURE OF 200 PSI? THE PUMP EFFICIENCY IS 83% AND THE MOTOR EFFICIENCY IS 92%.**

- a. 764 Hp
- b. 829 Hp
- c. 645 Hp
- d. 732 Hp

**Answer Key**

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

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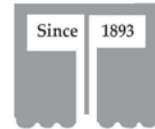
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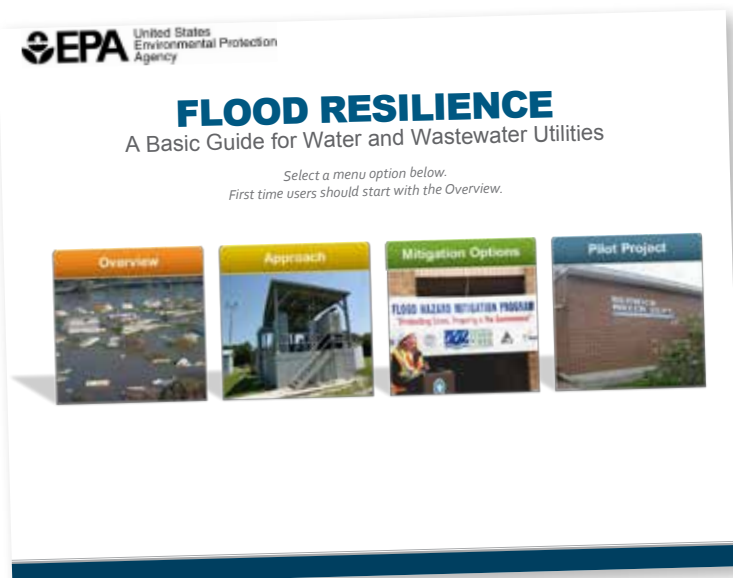
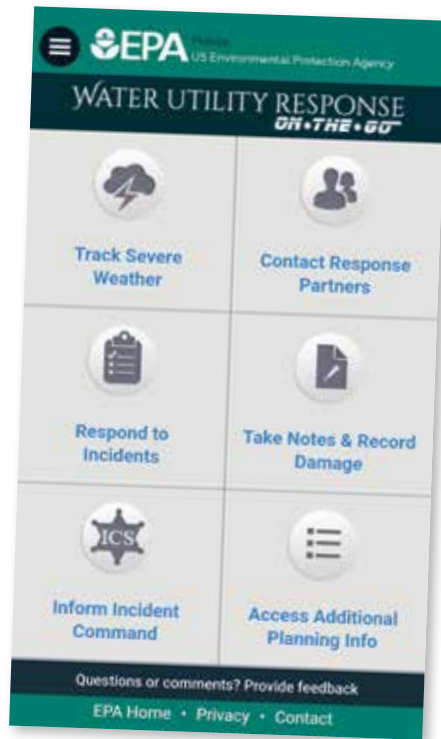
Download this free tool from your favorite app store or check it out online at [www.epa.gov/waterutilityresponse/water-utility-response-go-mobile-application-and-website](http://www.epa.gov/waterutilityresponse/water-utility-response-go-mobile-application-and-website).

**The U.S. EPA's Flood Resilience Guide** provides information to drinking water and wastewater utilities seeking to reduce impacts from floods. Follow the four-step approach to implement strategies that will help your utility mitigate against flooding events. **To access this resource, visit [www.epa.gov/waterutilityresponse/flood-resilience-basic-guide-water-and-wastewater-utilities](http://www.epa.gov/waterutilityresponse/flood-resilience-basic-guide-water-and-wastewater-utilities).**

With the help of these free water resilience resources, you can continue to work towards providing safe and reliable services to customers during emergencies. The U.S. EPA has many exciting new products on the horizon, including an updated Tabletop Exercise Tool.

The U.S. EPA also provides regular updates on water security and resilience resources available to utilities, interdependent sectors and the public. These include the What's Going On newsletter, the Biannual Utilities webinar and the states webinars through the Association of State Drinking Water Administrators (ASDWA).

Visit [www.epa.gov/waterresilience](http://www.epa.gov/waterresilience) to access these free preparedness tools and more from the U.S. EPA. Contact [WSD-outreach@epa.gov](mailto:WSD-outreach@epa.gov) for additional information on products from the U.S. EPA or to be added to the What's Going On newsletter email list. 💧



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# FROM THE EXECUTIVE DIRECTOR

KURT PFEIFLE, EXECUTIVE DIRECTOR

I'd like to formally introduce myself to everyone as the new Executive Director of South Dakota Rural Water. Some of you may know me as the manager of the Mid-Dakota Rural Water System where I have spent the last 25 years. As a member system of SDARWS, I had a 10,000-foot view of the work the Association provides to their members, and now I get to experience the other side.

This transition has been bittersweet after 25 years working for Mid-Dakota. I've been a witness to every piece of pipe going into the ground; all brick and mortar as it was constructed; and I've personally hired every employee working there. I've been blessed to have worked with a great Board of Directors at Mid-Dakota. To say letting go is difficult would be a huge understatement. I get emotional thinking about all the friends

and relationships, including directors and staff that I'll no longer interact with on a daily basis. It's truly an odd mix of excitement and elation along with sadness and melancholy that I am experiencing as I make this transition.

I've got just a few weeks of work under my belt getting to know the SDARWS staff, and have been busy familiarizing myself with the inner workings and services provided by the Association. I've also had a chance to get on the road and visit some of our member systems and look forward to getting around to more of them as time goes on.

If you would like to contact me, please feel free to call the Madison office at 605-556-7219, or shoot me an email at [kpfeifle@sdarws.com](mailto:kpfeifle@sdarws.com). ♦



*First staff meeting with new Executive Director. seated around the table starting on the left: Steve Attema, Mike Moeller, Jennifer Bame, Robyn Brothers, Kurt Pfeifle, Jim Zeck, Brant Ager, Greg Gross, Jeff Fossum, Bill Thorson, Nick Jackson. Not pictured: Jeremiah Corbin.*

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