

ServiceLine

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

2023 EXPO AGENDA PAGE 13

INFLOW &
INFILTRATION

SPRING
MAINTENANCE

RAPID VALLEY'S
TRANSITION TO
NANOSTONE IS
FINALLY COMPLETE

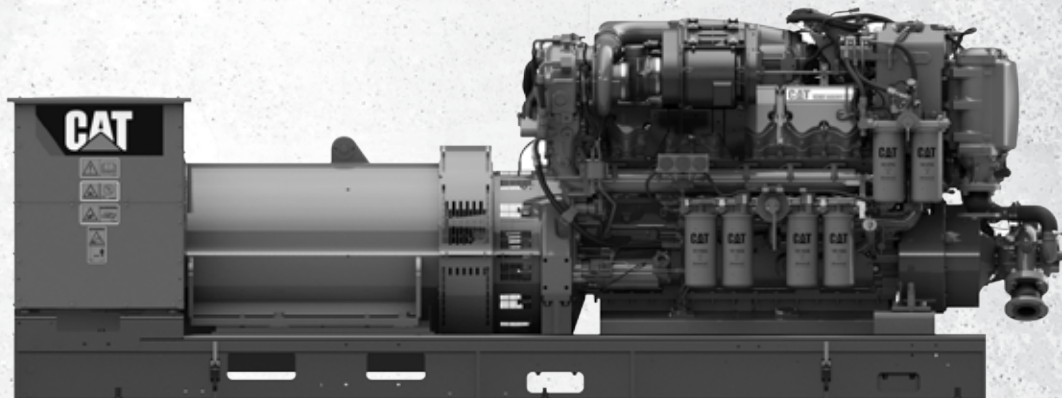
2023 EXPO
APRIL 26-27
RAPID CITY

FISHING
TOURNAMENT
APRIL 28-29

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Cover Photo: Water tower sunset. Photo credit Jeff Fossum

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FROM THE SDARWS PRESIDENT

RON GILLEN, SDARWS PRESIDENT



RURAL WATER 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 13 presentations 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. You can find the full schedule on page 13. **Please pre-register by visiting our website at: 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 30 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. The registration deadline is April 26, 2023. More information can be found online at sdarws.com/FISHING, or check out page 33 of this issue of *ServiceLine*. 💧



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REGISTER FOR SDARWS CERTIFICATION CLASSES

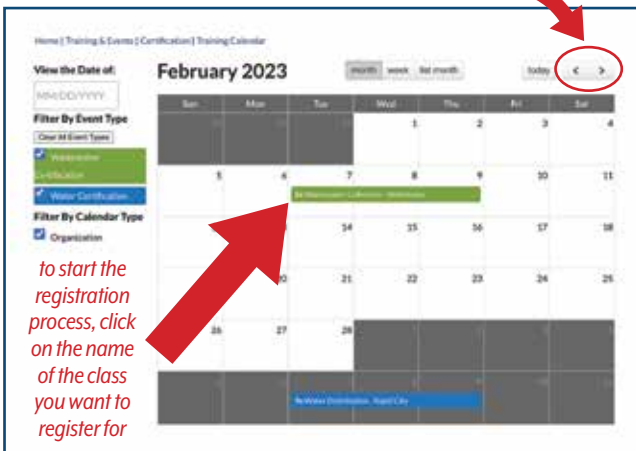
The South Dakota Association of Rural Water Systems has upgraded to a new website and class registration software. This move will allow us to better track class attendees and certification hours.

1. Navigate to **SDARWS.COM**

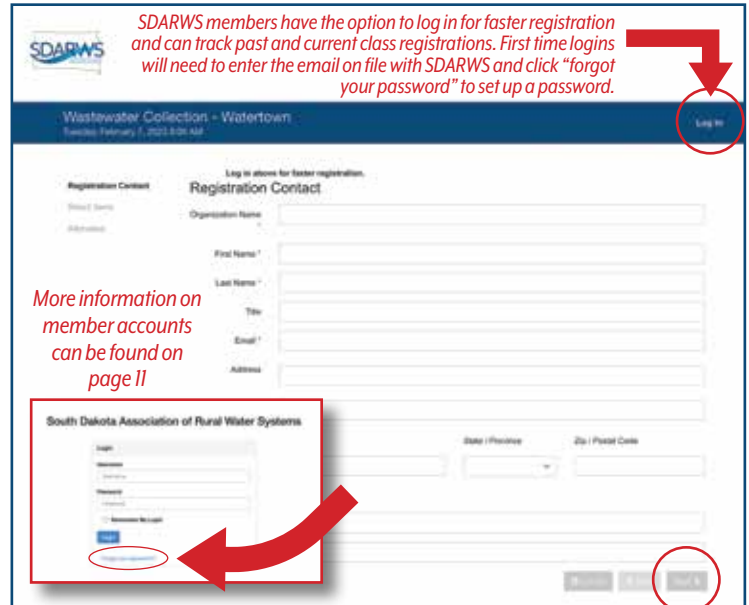
- Bring your cursor to the **TRAINING & EVENTS** header, and hover over **CERTIFICATION** and you'll see **TRAINING CALENDAR** pop up
- or click on the **CERTIFICATION TRAINING** button
- or navigate to **WEB.SDARWS.COM/EVENTS**



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



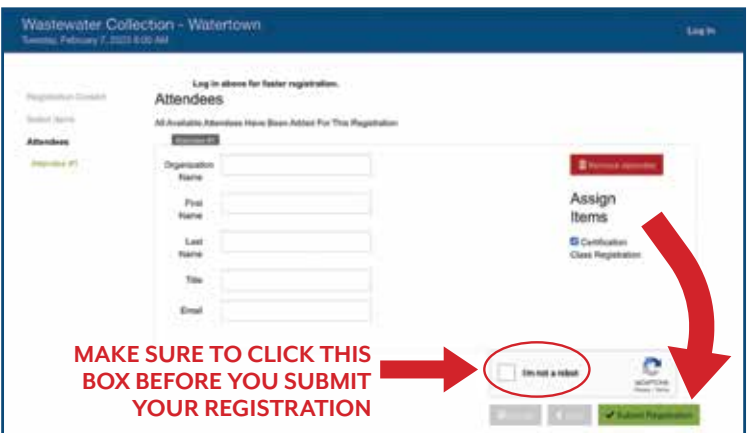
3. Fill out the form with the name and information of the person filling out the form, and click **NEXT**

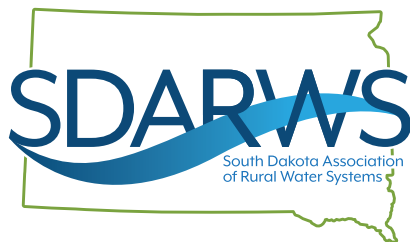


4. In the quantity box, enter the number of people you are registering for this class, and then click **NEXT**



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

Register for training classes online at: web.sdarws.com/events

Basic Water Treatment	March 21-23, 2023	Watertown Ramkota, Cattail Room
Certification Exam	March 23 @1:00 PM	Watertown Ramkota
Basic Wastewater Treatment	April 4-6, 2023	Sioux Falls Ramkota, Harvest Room
Certification Exam	April 6 @1:00 PM	Sioux Falls Ramkota
Small Water Treatment Workshop	April 25, 2023	Rapid City Ramkota
Intermediate Water Treatment	May 2-4, 2023	Aberdeen Ramkota
Certification Exam	May 4 @1:00 PM	Aberdeen Ramkota
Advanced Water Treatment	May 23-25, 2023	Rapid City Ramkota, Rushmore Room
Certification Exam	May 25 @1:00 PM	Rapid City Ramkota
Wastewater Collection	July 25-27, 2023	Aberdeen Ramkota, Northern Room
Water Distribution	July 11-13, 2023	Watertown Ramkota, Cattail Room
Wastewater Collection	July 25-27, 2023	Aberdeen Ramkota, Northern Room
Basic Water Treatment	August 8-10, 2023	Sioux Falls Ramkota, Harvest Room
Intermediate Water Treatment	August 29-31, 2023	Spearfish Holiday Inn
Small Water Treatment Workshop	September 19, 2023	Online Via Zoom
Stabilization Pond Workshop	October 12, 2023	Huron Events Center
Stabilization Pond Workshop	October 17, 2023	Mitchell Highland Conference Center
Wastewater Collection	October 24-26, 2023	Rapid City Ramkota, Rushmore Room
Basic Wastewater Treatment	November 14-16, 2023	Spearfish Holiday Inn
Water Distribution	December 5-7, 2023	Rapid City Ramkota, Rushmore Room

EXAM INFORMATION

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 to DANR. 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

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).

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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.

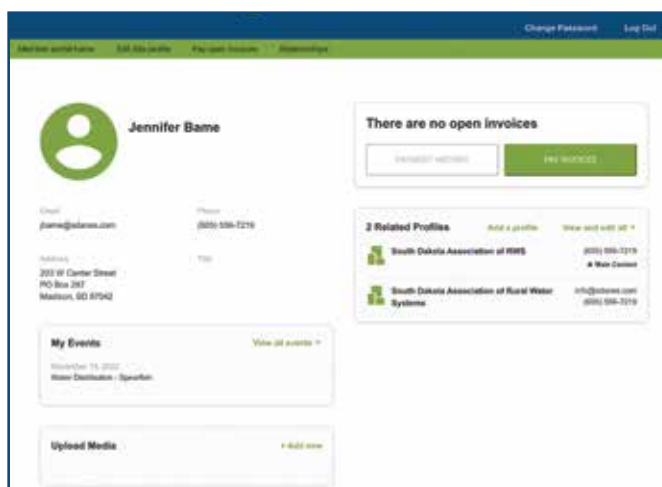
EDIT THIS PROFILE

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:

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- 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!

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The National Rural Water Association has created partnerships with motor groups to offer discounts to utilities around the country. Member utilities should contact their State Rural Water Association to access the Rural Water Fleet Program.



Visit <https://nrwa.org/members/products-services-portfolio/fleet-program/> for up-to-date information.

RURAL WATER
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2023

APRIL 26-27, 2023

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The EXPO is open to all water and wastewater utility staff, board/council members, engineers, State and Federal employees. The training will consist of 13 informative presentations equaling 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 in our Exhibit Hall. Many will be displaying the recent advances in technology our industry has witnessed over the past several years.

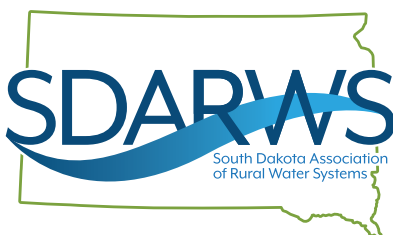
WEDNESDAY, APRIL 26

- 7:30 AM Registration – Refreshments – Visit Displays**
- 8:00 AM Welcome, Agenda Review**
- 8:15 AM Western Dakota Regional Water System**
– Cheryl Chapman, West Dakota Rural Water System
- 9:00 AM Disinfection By-Products in Drinking Water**
– Craig Steve, IXOM Watercare
- 9:45 AM Refreshment Break – Visit Displays**
- 10:15 AM 2023 Rate Setting Trends and Topics:
AE2S Annual Rate Survey**
– Miranda Kleven, AE2S
- 11:00 AM WaterSMART**
– Marlena Lanini, Water Resources and Planning, USBOR
- 12:00 PM Deli Bar Buffet Lunch**
- 1:00 PM Regulatory Update**
– Mark Mayer, SD DANR
- 1:45 PM Lead Service Line Inventory Assistance**
– Erin Steever, Bartlett & West
- 2:45 PM Refreshment Break – Visit Displays**

- 3:00 PM Deer Mountain Sanitary District System Wide Improvements**
– Casey Skillingstad, AE2S
- 3:45 PM Lift Station Maintenance and Controls**
– Patrick Schmitt, Electric Pump
- 4:30 PM Rural Development Funding**
– Brian Ring, USDA Rural Development

THURSDAY, APRIL 27

- 7:30 AM Exhibits Open – Coffee, Juice, & Rolls**
- 8:00 AM Industrial Water Use 101**
– Rachel Kloos, ISG
- 8:45 AM Keeping the Flow Going: Environmental Compliance on Long Distance Water Pipeline Projects**
– Becky Baker, Banner Associates
- 9:30 AM Refreshment Break – Visit Displays**
- 10:00 AM Eliminating Data Silos with Connected Software**
– David Carrillo, Mueller Water Products
- 10:45 AM Hydraulics 201**
– Dan Nebelsick, DGR
- 11:30 AM Door Prizes – Dismiss**

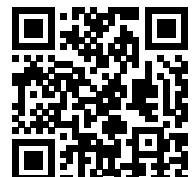


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FOR MORE INFO CONTACT
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WE ARE READY FOR SPRING!

I thought last year's construction season was a strain on the systems and operators. Well, I underestimated what Old Man Winter was set to bring to South Dakota. At the writing of this story, our part of South Dakota was shoveling another foot of that lovely four-letter word. I'm a little superstitious. I have gone a long way around not calling "it" by name. As well, I don't use the water "B---k" word. Instead, I refer to it as an "unauthorized discharge of water out of a portion of a water pipe that can't hold pressure any longer."

Part of the winter-spring projects for some system operators was a meter change to a new read system. During that project, information for the lead serviceline inventory was going to be collected. If you haven't heard, here is my take on the latest from Erin Steever, P.E. with Bartlett and West. Phase I: DANR has contracted three engineering firms that have joined their forces to gather the information they are: Bartlett and West, Brosz, and Black & Veatch. Phase II: In mid-March – August 2023, a marketing company is contracted to help roll out the information. The information will help each system to invest your customers with public informational meetings, flyers, websites, videos, and questionnaires to answer any question to make the gathering of the information an attainable project! Yes, I know we would like to get done with the serviceline survey project NOW! But I also know you don't have enough time to do this work twice! So, please sit back and let the DANR and their amassed engineering team of Bartlett and West, Brosz, and Black and Veatch get ready to make this project as painless as possible. Suggested tasks to accomplish before-as-time-permits: your past lead sampling results and site plan. Gather the old project as-builts and find out the years projects were completed. Some as-builts will even have information that can be used for the serviceline survey. If a service call has you on top of the water meter, now is your chance. Take a clipboard and a clean sheet of paper. Write the date, time, and serviceline address with your initials and note the pipe material on both sides of the meter. Next, position the clipboard and take some

pictures. Ok, I know that information all could be placed on the picture, BUT if you know me and technology, sometimes we are not an efficient way to spend the service call time!

The next important spring task for lagoon operators is a seasonal discharge! If you have received a new discharge permit, check what is needed to discharge and the samples that need collecting before and during the discharge. Timing is very important with the required testing and the discharge effluent quality needed for a compliant discharge. Don't forget to check the calendar for holidays; the lab needs time at work to set up and read the results on time. Like any big to-dos in the spring, the discharge is just the first step of many. The next step is gathering the test results collected and ready to report in your Net DMR account. Remember the difference between 7-day and 30-day averages. For a geometric means a minimum of 5 results are needed to complete the equation. Don't forget to calibrate your pH meter before the discharge begins and document the calibration. Did I remind you to review your permit to make sure all the testing and information is collected during the discharge? If you would like some onsite review of your permit, Danny, Glen, or I would be happy to assist with a review of your discharge permit to make this a once-done spring project.

My best advice to you is to take a deep breath, get a good cup of coffee, hang on and get ready for a fun ride called "What We Got Accomplished In 2023!" You are the author; make this one a good read.



JEFF FOSSUM joined the SDARWS staff in February 2018, as a Circuit Rider. He previously worked for 32 years at the City of Canton, SD as the Water/ Wastewater Superintendent. Jeff holds a Class II Water Treatment, Class II Water Distribution, Class II Wastewater Treatment and Class II Wastewater Collection. His interests include gardening, woodworking and talking.

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- Water Treatment
- Water Reuse



SDARWS CAN HELP WITH YOUR SPRING AND SUMMER MAINTENANCE

With spring right around the corner, it's time to start thinking about spring cleaning and maintenance. Some of us look forward to this time of year, and others dread it like the plague. For most water operators, springtime and the beginning of summer is the busiest time of the year. Most South Dakota water operators have a long list of other responsibilities along with being a water operator. They also take care of the community's wastewater, street, parks, garbage, animal control, telephone, and electrical, to name a few.

With water operators in short supply and the high workload of the spring and summer tasks, it can be daunting. Please take advantage of the services SDARWS has to offer to our members. The Hydro-Vac is a great way to clean the debris and grit out of those water main valve boxes and curb stops, allowing easy access to your key on those valves. When time is of the essence to shut them off, you'll thank yourself later. It's also a cheap and easy way to replace those broken valve boxes that may have gotten in the way of the snow plow this winter. Not sure exactly where your valves are? SDARWS has locators to help you out with that treasure hunt.

After all your valve boxes are cleaned, it would be a great time to come along with SDARWS's Kubota, equipped with a valve

exerciser to spin those valves to make sure they're free and operational. I recommend doing this once every two years. The valve exerciser also has an attachment to exercise your fire hydrants. Flushing your water mains is recommended once a year in the spring before the high-water demand season starts. With all the new growth going on, it would be a good idea to perform a fire hydrant flow test on all of your system's fire hydrants. Make sure to de-chlorinate that water when doing this maintenance, and yes, SDARWS has that equipment too.

These are a few of the many tasks a water operator has on their plate this coming spring and summer months. Give SDARWS a call so we can help you relieve some of that workload on your shoulders.💧



WYATT HIX started his career at SDARWS in the spring of 2022 at a Circuit Rider and is based out of our Spearfish office. He holds a Class II Water Distribution, Class I Water Treatment certificate, and is a licenced Sewer and Water Contractor, Certified Installer of Individual and Small on-site Wastewater Systems, and trained in on-site Wastewater Treatment Systems Installation. Wyatt resides in Belle Fourche with his girlfriend, Misty.

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RAPID VALLEY'S TRANSITION TO NANOSTONE IS FINALLY COMPLETE



Rebuilding the headers to accommodate the new filter cartridges



The last filtration skid is to be rebuilt and fitted with Nanostone ceramic filter elements

Some of you may remember an article I wrote for the April 2020 Issue of ServiceLine telling the story of Rapid Valley's transition to Nanostone ceramic filter elements in their water treatment plant. The transition started in 2017 with the installation of ceramic filter elements on the backwash skid as a beta test. Fast forward to February of 2023, and the last filtration skid has been completed and will soon be started up and producing water.

Rebuilding the filtration skid is a lengthy process that takes most of the winter. The frame, headers, and piping must be completely rebuilt to accommodate the new filtration cartridges.

After the headers are rebuilt, and in place, the filter cartridges are attached to the bottom header, and the top of the cartridge is plumbed into the top header. Clear PVC pipe is used for the top so that when you are running the skid through a backwash cycle, you can see when the water passing through the filter is not dirty. Being able to see the water gives you a real-time of how long the backwash cycle should be set at and not just a

guess and the possibility of wasting water while performing a backwash.

Rapid Valley Sanitary Water District changed the filtration cartridges from the original ones to increase water production. With the original filtration cartridges in place, the water treatment plant was able to produce 3 million gallons of treated water per day, now with the new Nanostone ceramic cartridges; the water plant can produce 4.8 million gallons of water per day in the same footprint, which will help Rapid Valley Sanitary Water District keep up with the growth that they see in their service area. Since 2017 approximately 450 new homes have been built, with more in the future. 💧



MIKE MOELLER has worked for SDAWWS 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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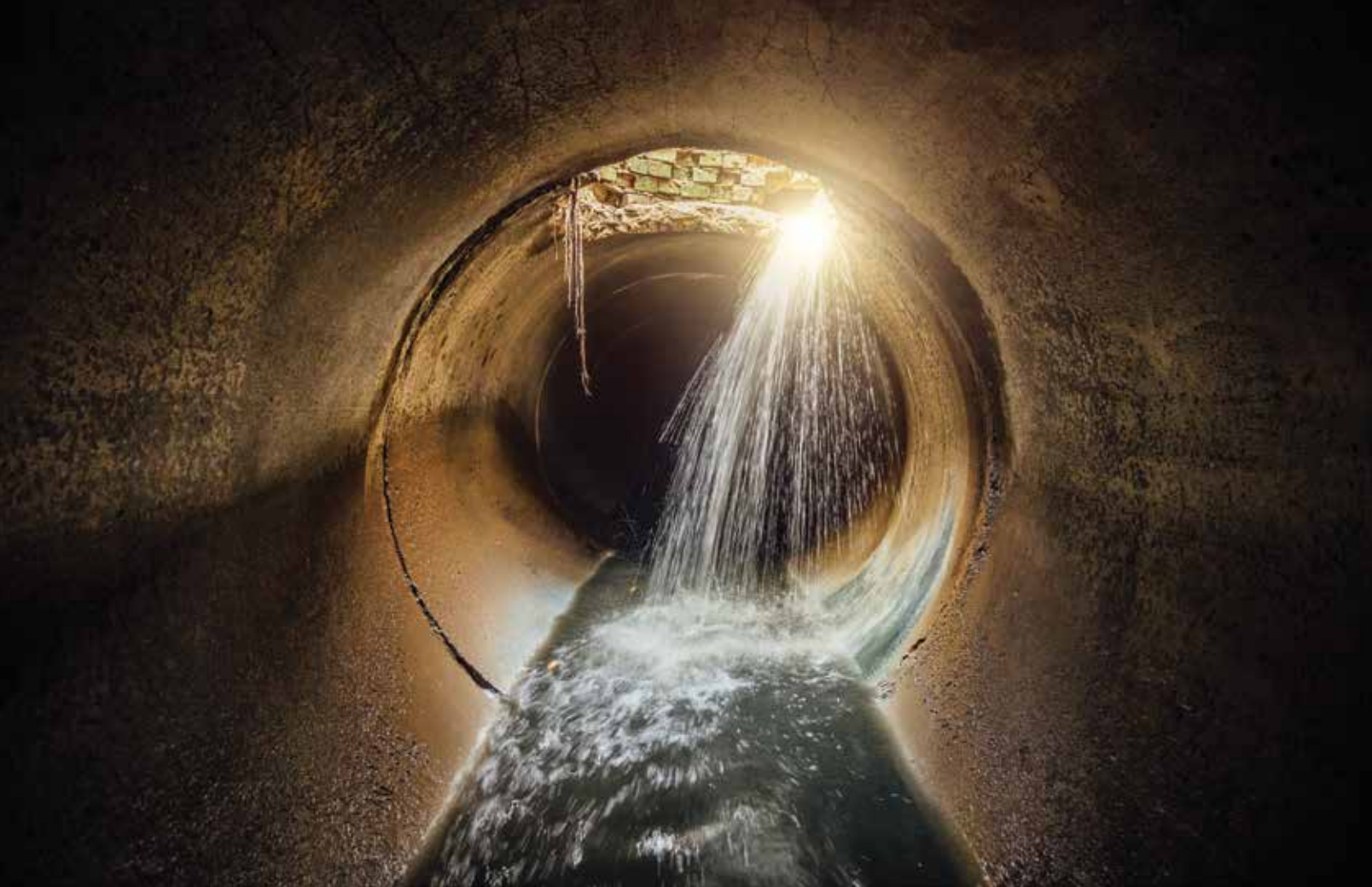
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WHERE DOES I&I END UP? AT YOUR LAGOON!

I am sitting at home this week during our three-day blizzard, not the Dairy Queen blizzard, but a snowstorm blizzard. With all the snow we have received this winter, plus the 12 inches we just got. When it starts to melt, where is it going to go? Some will run off to the storm drains, then off to lakes, rivers, and creeks, and soak into the ground. And, of course, the ones that run their sump pumps into the sewer system – which is a big NO! – NO in the spring, summer, and fall.

I & I: WHAT IS IT?

Infiltration and inflow. Infiltration, water that enters the sewer system through infrastructure, cracked pipes, bad joints, roots making their way in, rolled gaskets, and high-water tables seep through. Deteriorating infrastructure needs to be addressed. Also, sewage can seep out during dry weather exfiltration.

Inflow is water that can enter your system through unsealed sewer cleanouts, manholes, or storm sewer interconnections.

I & I starts out as clean rainwater, and snow melt once it gets into your sewer; it is contaminated. Infiltration and Inflow make your lift station pumps work harder, along with larger

electric bills and more workload for city employees. Other problems lower your dissolved oxygen levels in the lagoon. The additional water then reduces retention time in lagoons and can cause short-circuiting in the lagoon.

It is always important to locate and fix your problems; smoke testing manholes, dye testing, and regular camera inspections can help identify potential issues. The wastewater technicians at SDARWS are available to help you with all of these preventative measures. If you would like a wastewater tech to assist you with one of these services, please contact myself at 605-645-6488, or Danny Ayers at 605-291-2299. ♦



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.



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APRIL SHOWERS BRING MAY FLOWERS!

With the coming of spring, we have started to see changes in our wastewater treatment system. As the weather warms, we will likely see a rise in flows in the system; some of this is due to higher usage by our customers, and some is due to snow melt or spring rain causing a higher rate of I&I (Inflow & Infiltration) in the system.

Let's look at the I&I problem. Our infiltration can come from cracks, breaks, abandoned services, and joint separation in the main or the services or the manholes. Spring is an excellent time to be looking for indications of infiltration. As you are doing your routine maintenance of checking your manholes, make notes of the flows in those manholes and then compare those flows to previous records. While we have the manhole open, let's look around in there and note any signs of infiltration on the walls of the manhole.

Inflow is also an issue in the springtime. As we get more moisture going into the ground, you will likely see an uptake of groundwater by sump pumps and underdrains that may be connected to the sewer system.

Keeping a record of the weather, snow accumulation, snow melt, rainfall, and temperature changes can help you to be able to predict and verify infiltration events. When you see a high number of hours each day on the lift station pumps, that can indicate I&I. When you notice high flows in the system that you believe are being caused by I&I, note the areas that are being affected and try to have them televised while the higher flows are present to pinpoint where the water is getting into the system; this will allow you to better plan for repairs or upgrades to the system. There are some contractors in South Dakota that can televise your system, or you can contact the South Dakota Association of Rural Water Systems (SDARWS) to schedule some camera work.

Spring is also a good time to do that maintenance on your lift station. You can start by doing your annual calibration of the pumps. For assistance with this, contact an SDARWS wastewater Tech and they will help you. You should clean your wet well at least annually to remove F.O.G. (fats, oil, and grease), rag buildup, and silt that has accumulated during regular operation. To clean a wet well properly, you should use a vacuum unit to remove the debris from the bottom, although it can be accomplished with a shovel, a bucket, and a rope (which is not very much fun). Remember that whenever you enter a confined space, always use

the proper personal protective equipment and follow all confined space entry protocols.

To clean the force main from the lift station to the lagoon, the best approach is to use a poly pig (a soft foam plug) that is pushed through the force main by using a fire truck to pump up the pressure and add a high flow of water to the pipe. To clean a gravity flow pipe, you can use a high-pressure jet machine and clean from manhole to manhole.

Ok, we have finally gotten to the lagoon. The first thing you will need to do here is to assess any damage to the facility that may have occurred over the winter months.

- Look for damage caused by ice and snow or from plowing snow on the berm tops.
- Check to see if any of the rip-rap on the interior slopes needs to be replaced.
- Check all valves and manholes for damage.
- Check the signs to see if any of them require maintenance.
- Check the perimeter fencing to see if it needs repair.

As the ice goes out of the ponds, assess the condition of the water in your number one cell, as it will most likely be anaerobic and may need some help with mixing and adding oxygen to get it to a facultative state and shorten the turnover time. It is desirable to have a short turnover time to reduce the odors caused by the sludge-releasing gasses that have been trapped all winter at the bottom of the lagoon. Don't forget to look at the water levels in the lagoon and determine when or if you will have to discharge. If you are having trouble getting your lagoon going, let the wastewater techs at SDARWS know, and we will help you troubleshoot your lagoon.

I hope this information will help you to get your system up and running for the summer. If you have any questions, give us a call: Danny Ayers 605 291-2291 or Glen Olene 605 645-6488. We are always happy to help.💧



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.

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TRAINING? AGAIN?!

Training. We all are required to take some sort of training at some point in our time here on the third rock from the sun. Potty training can be challenging for parents and children and is likely the first training we receive and is sometimes the first training we conduct. Other training can be career or job-related; driver training, whether for a regular license or CDL for a job, is also a certainty in most cases. Safety training is also a certainty in most if not all, career fields. The operations specialists that run and maintain our water and wastewater systems also require training. Treatment, distribution, collection, and rules and regulations are all part of the training most operators receive for compliance and keeping the water safe to drink. I will take time now to review the opportunities the South Dakota Association of Rural Water Systems (SDARWS) offers for training.

The assistance part of our jobs at SDARWS is available because our staff has completed training in the water and wastewater industries. The operational specialists and managers of systems in South Dakota use the training in the utility work field to provide knowledge of the system and specific operational items that are critical to compliance and a job well done, which also means satisfied citizens and customers.

Most of the SDARWS staff are required by the National Rural Water Association to attend two training conferences per year. Some staff is taking a trip to Florida in June for an in-service training conference. The amount and quality of information we receive from these training seminars are invaluable for our staff as we keep up on the latest trends, technology, finance options, and regulations that may affect or benefit water and wastewater systems in South Dakota.

Safety training is probably the most required and redundant training out there, but also the most necessary. Each of us has someone who wants us to come home at the end of the day. Our number one job each day is to get home safely. Every year people are hurt or killed in a job-related incident. Many times, a second person is injured or killed trying to rescue the first

person. We all have that instinct to help a person in danger, but we do not always think of our own safety at those times. The training sessions should allow us to kick into automatic mode and make the right decisions to keep everyone as safe as possible, including ourselves. Professional sports athletes and professional shooting sports people will say that muscle memory or training the muscles to do the same thing time after time is good practice. The industry will say that redundant training is good practice to save lives.

The South Dakota Rural Water training classes and events are all listed on our website at sdarws.com/events. Operator training, safety training, manager training, and leadership training are all listed, and you can register or sign up online through our newly updated website. There you will find upcoming conferences and other events that not only give you contact hours for certification renewals but you can also get valuable training on topics presented. If there is something specific you would like to have some extra focus on, contact the office or one of our staff and let us know. On-site training is also available for specific items. Sometimes the finance people or boards will only see the cost of training as too high, sometimes in class fees or travel costs, but it is a small price to pay for the safety and knowledge to do your work safely and efficiently. Reviewing the same things over and over may seem silly, but it may mean that everyone goes home safe today. As always, stay safe. 💧



BILL THORSON joined the SDARWS staff in March of 2018 as a Wastewater Tech. Bill transitioned to Trainer/Technical Assistance Specialist with SDARWS in October of 2019, and took over Certification training in 2020. He was previously employed with the City of Canton as Public Works Director for nine years and water/wastewater operations specialist for 19 years. Bill holds Class II certifications in Water Treatment, Water Distribution, Wastewater Treatment, and Wastewater Collection and is NASSCO certified in pipeline and manhole inspections. Bill is also an SDWWA board member.



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PHOTOS FROM THE FIELD



Circuit Riders Al Kocmich and Paul Dorwart assisted the City of Madison with finding a major leak right before yet another blizzard.



Source Water Protection Specialist Kevin Christenson inspecting the well casing with a bore camera in Hermosa.



Pipe relining project in Delmont.



Paul Dorwart in Volin, SD assisting Operators Dan Frank and Russell Frasier the City of Volin with leak detection.



Bear Butte Valley Board Meeting.

Special Loan Terms for SDARWS Members!

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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:



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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 13 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 or email 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 40 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 or email 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 or email 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 and system leadership.

For more information, visit sdarws.com/leadership or email 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 or email atc@sdarws.com

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CERTIFICATION PRACTICE QUESTIONS

- One of the employees in your crew complains about having to do a hard job. The proper thing to do is**
 - explain that all employees must do their fair share of the hard work as well as the easier tasks.
 - ignore the complaint.
 - promise that the next assignments will be easier ones.
 - tell the employee to shut up and work or quit and go home.
- Water rates are:**
 - \$0.50 per 100 ft³ from 0 to 2000 ft³
 - \$0.40 per 100 ft³ from 2000 to 6000 ft³
 - \$0.35 per 100 ft³ from 6000 to 20000 ft³, and
 - \$0.25 per 100 ft³ for 20,000 ft³ and over.**What is the charge for 1 acre-ft?**
 - \$108.90
 - \$133.90
 - \$154.00
 - \$163.35
- The most significant difference between the general properties of powdered activated carbon and granular activated carbon is**
 - particle size.
 - granular activated carbon is reactivated: powdered activated carbon is not.
 - storage and handling considerations.
 - the type of packing containers used for shipment.
- Persistent filter binding can be overcome**
 - by a change in the dose of the coagulant or coagulant aid.
 - by changing the filter media.
 - by frequent backwashing.
 - with filter aids.
- Two analytical methods used to test for coliform bacteria in water are**
 - membrane filter method and standard plate count.
 - multiple-tube fermentation and membrane filter methods.
 - multiple-tube fermentation method and standard plate count.
 - total coliform test and standard plate count.
- Bed life refers to**
 - manufacturers' specifications regarding the installation of granular activated carbon in pressure columns.
 - the length of time granular activated carbon is held in suspension during backwashing.
 - the replacement of the filter underdrain system at periodic intervals.
 - the time it takes for granular activated carbon to lose its adsorptive capacity.
- Hydrofluosilicic acid comes in the form of**
 - crystal, requiring dilution.
 - liquid.
 - powder, requiring dilution.
 - very fine crystal, requiring dilution.
- The most common operating problem related to the use of powdered activated carbon is**
 - handling and storing the material.
 - loss of adsorption capacity due to particles becoming coated with floc.
 - selection of the application point.
 - the determination of proper dosage rates.
- Increased funds for the year are limited. However, two or three outstanding newly employed individuals are grossly underpaid for their services. How should this situation be handled?**
 - Call a staff meeting, explain the situation, and then raise their salaries.
 - Don't give anyone a raise.
 - Pass the word that there will be raises but change their titles, not their duties, and raise their pay.
 - Say nothing and do nothing because it is none of the employee's business.
- In addition to precipitating calcium carbonate, treatment techniques can form a protective coating in the distribution system with the use of**
 - asphaltic-plastic material.
 - cement mortar.
 - carbon dioxide.
 - polyphosphates.



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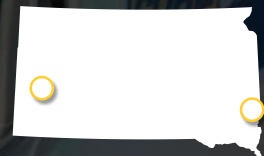
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MANDATORY RULES MEETING

7:00 PM CT on Friday, April 28th
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TOURNAMENT DETAILS

\$150 Team Registration

Saturday, April 29, 2023

Cow Creek Boat Ramp

7:00 AM - 3:00 PM

Meal Provided following the tournament

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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 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

WATER 2040

I predict you will hear much more about the Water 2040 tagline (above) in the coming weeks, months, and years. What is Water 2040? Simply put, this is an effort to promote and protect the water resources of South Dakota. There is a particular emphasis on the Missouri River, arguably the most incredible water resource South Dakota has access to.

The increasing trend of potable water demands in South Dakota, coupled with a public desire for better water quality and mounting regulatory burdens placed on water purveyors, portray and foretell a desperate and thirsty future for residents across South Dakota. Action is needed to strengthen our water utilities and build resiliency to these growing challenges. Enter Water 2040.

Water 2040 proposes to work with local, state, and federal agencies along with a host of other apparent stakeholders to clearly define what is needed and what the direction of state water policy should look like. This can be accomplished through regional needs assessments and feasibility studies to more accurately assess the state's current and future water needs and evaluate the capacity of local water resources to meet such requirements.

Water 2040 is also proposed as a conduit, a nexus if you will, to some of the large-scale water development projects currently underway in South Dakota; projects such as the Western Dakota Regional Water System, the Water Investment in Northern South Dakota (WINS) project, and the newly created

Dakota MainStem System. It is not the intent of Water 2040 to exercise any control over these efforts but rather to serve as a pipeline (pardon the pun) for communications with federal, state, and local authorities and to and between the projects themselves.



Whiskey is for drinking, and water is for fighting, is a lesson learned by South Dakota years ago, and Water 2040 aims to avoid the water fight pitfalls for the future. There have literally been books written on the subject of South Dakota water wars (Cadillac Desert, Up Hill Against Water, and River of Promise to name a few). Nothing will kill a project

faster than having dissent among those involved. It doesn't take much for a federal or state appropriator not to fund something. Water 2040 intends not to let this happen. They will strive to keep the water community focused and cohesive in its mission and be fair and caring in its actions. Disagreement or dissent will be handled internally and not spill out in a public arena, which would only serve to harm the credibility of a project. A big job for sure, all of the adages of "herding cats" and "putting frogs in wheelbarrows" comes to mind. However, if anyone is up to the task, it is this diverse group of water professionals who have graciously volunteered their time, talents, and treasure to the Water 2040 efforts.

Keep your ears open and your eyes peeled for Water 2040. There is little doubt that you'll be hearing much more from this group as we move forward. ●

USDA WATER & WASTE WATER DISPOSAL LOAN AND GRANT PROGRAM

Improve Your Facility

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.

Funding

Long-term, low-interest loan funding is available. If funds are available, a grant may be combined with a loan if necessary to keep user costs reasonable.

USE YOUR FUNDS TO FINANCE THE ACQUISITION, CONSTRUCTION, OR IMPROVEMENT OF:

- 01 Drinking water sourcing, treatment, storage, and distribution
- 02 Sewer collection, transmission, treatment, and disposal
- 03 Solid waste collection, disposal, and closure
- 04 Storm water collection, transmission, and disposal
- 05 Other related activities such as permits and legal fees



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