

Issue 3/2014

# Nebraska Rural Water Association



**NEBRASKA GOOD WATER NEWS**

Water Operator Training

August 13 Bancroft  
August 14 Albion  
August 19 Wahoo

October 21 Chappell  
October 22 Eustis

November 18 Alliance  
November 19 Mullen

December 16 Red Cloud  
December 18 Firth

Wastewater Training

July 29 O'Neill

August 13 West Point

September 10 Loup City

October 15 Newman Grove

November 13 Wayne

December 10 Wahoo

Backflow Continuing Education Training

September 9 York  
September 11 Ord

October 14 South Sioux City  
October 16 Atkinson

November 13 Wahoo

December 9 Mitchell  
December 10 Imperial  
December 11 Cambridge  
December 17 Wahoo

# 2014 TRAINING

Fall Western Conference

Sept. 16-18  
Gering Civic Center  
Gering, Nebraska

Grade 6 Backflow Prevention Cross Connection Control Course 5 Day

October 20 - 24 Wahoo

Wastewater Certification Course

August 26 - 29 Wahoo  
October 28 - 31 Wahoo

October 1 Trenching & Shoring -Wahoo  
October 2 Confined Space Entry -Wahoo

# Nebraska Good Water News

# Issue 3/2014

*“Keeping Our Water Safe”*

*Board of Directors*

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Russell Topp, Circuit Rider  
Mike Stanzel, Source Water Specialist  
Barney Whatley, GPS Specialist  
Mike Lucas, Wastewater Technician  
Pat Petersen, Training Specialist

Website: [www.nerwa.org](http://www.nerwa.org)

### **On the cover:**

Pilger Water Tower. Pilger was hit with a tornado on June 16. Article on pages 8 and 9.

*"This Institution is an Equal Opportunity Provider and Employer."*

*“Nebraska Good Water News” is a quarterly publication of the NEBRASKA RURAL WATER ASSOCIATION, 3390 Ponderosa, Wahoo, Nebraska 68066. Phone 1-800-842-8039 or (402) 443-5216 or FAX (402) 443-5274. Copies are mailed to all member rural and municipal water operators, Federal and State Legislators, associates and individual members.*

*The NEBRASKA RURAL WATER ASSOCIATION is dedicated to the improvement and assistance of all public water systems in the State of Nebraska.*

*NOTICE: Nebraska Rural Water Association does not endorse any particular product or company in this publication. Membership and advertising should not be taken as an endorsement.*

# How'd We Do and Letters From...

Village of Firth

Village of Firth  
PO Box 38  
Firth, NE 68358

May 7, 2014

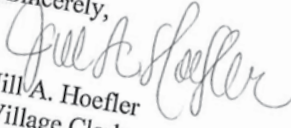
Nebraska Rural Water Association  
3390 Ponderosa Drive  
Wahoo, NE 68066

Dear Sirs:

Enclosed please a \$500 donation to your association from The Village of Firth. The board is very grateful for all the services you provide to our village as well as the water/sewer rate report Randy Hellbush completed for us in 2013. Your expertise and service over the years is greatly appreciated.

Again, thank you for the services you provide to the Village of Firth.

Sincerely,

  
Jill A. Hoefler  
Village Clerk

*Thank You*



*Barney & Mike,*

*Thank you for helping us make this year's Eco-Fair such a success. We couldn't do it without the dedication of volunteers like you!*

*Sincerely,  
- Sue & Calvin*

**THE VILLAGE OF OCONTO**

*P.O. Box 128  
Oconto, NE 68860  
308-858-4617*

**Board of Directors:**

Jim Rempe, *Chairman*  
Karen Dockweiler, *Trustee*  
Dan Eggleston, *Trustee*  
Tim Pflaster, *Trustee*  
Madiera Eggleston, *Trustee*  
Brenda Dittmar, *Village Clerk*

July 7, 2014

Nebraska Rural Water Assn  
3390 Ponderosa Street  
Wahoo, NE 68066

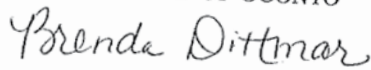
Re: Sewer

The Village Board of Oconto would like to thank you for coming to Oconto to check our sewer system with your camera for a possible line collapse. We appreciate your courtesy and promptness in helping us out!

Please find enclosed a donation of \$100.00. Thank you so much.

Sincerely,

VILLAGE BOARD OF OCONTO



Brenda Dittmar, Village Clerk

**VILLAGE OF MURDOCK**

**PO BOX 308  
MURDOCK, NE 68407  
402-867-2133  
villageofmurdock@hotmail.com**

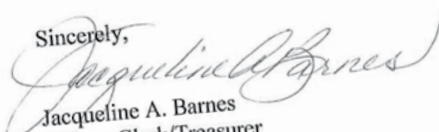
Nebraska Rural Water Association  
3390 Ponderosa Drive  
Wahoo, NE 68066

July 1, 2014,

Dear NE Rural Water Association,

The Village of Murdock would like to take this opportunity to sincerely "Thank You" for all the advice given towards the painting of our water tower and also for Randy Hellbusch's guide and direction in conducting our water rate survey. The Village of Murdock is always appreciative for all the services that are available to help keep our water system safe and operating efficiently and would like you to accept this donation of \$100.00 for giving us a helping hand!

Sincerely,



Jacqueline A. Barnes  
Village Clerk/Treasurer

CITY OF LOUP CITY  
134 SOUTH 8<sup>th</sup> STREET  
PO BOX 250  
LOUP CITY, NE 68853-0250  
PHONE (308) 745-0222  
FAX (308) 745-0734  
loupcity@kdsi.net



EQUAL HOUSING  
OPPORTUNITY

June 11, 2014

NeRWA  
3390 Ponderosa Street  
Wahoo, NE 68066

Good Morning:

The City of Loup City would like to thank you for all the assistance you have provided to us recently. Your efforts are greatly appreciated.

Please accept the enclosed donation on behalf of the City of Loup City, the Utility Department and Administrative Staff.

THE CITY OF LOUP CITY

Handwritten signature of Roberta E. Kowalski in cursive.

Roberta E. Kowalski  
City Clerk/ Treasurer/ Transit Director

Handwritten signature of Kevin Holcomb in cursive.

Kevin Holcomb  
Public Works Commissioner



## ATTENTION...

We are running low on pictures of water towers.

Send us your tower!!!

We are putting the water towers of Nebraska on our cover and are featuring a different tower on each issue. We have only used up a fraction of the towers in the state.

Let us add your name to our list and see how long it gets. Either send a photo to our office or email a picture to our website.



## Getting GPS Bids

By Barney Whatley, GPS Technician

In the last year I have been asked to submit bids to many systems in the state for GPS mapping of the water and sewer systems. We are happy to submit an estimate for a mapping project to systems, but I would like to explain some of the variables that should be considered by the system before accepting a bid.

There are several classes of GPS equipment available on the market. Most smart phones have a GPS app that allows you to determine your location and directions to your destination. These are similar to the auto GPS systems made by manufacturers such as Garmin™ and Magellan®, and the accuracy is around 6 feet. Although this is good enough to keep you on the road (I hope), it is not accurate enough for mapping.



The next step up is mapping accuracy equipment. The unit pictured here is a Trimble unit very similar to what NeRWA uses in our mapping projects. The accuracy of this equipment is improved when the data is corrected, which we do, and usually around 80% to

90% of the points are accurate to within 15 centimeters (6 inches). This is accurate enough for a system map and will allow the operator to get close enough to the point (manhole, valve, curb box, etc.) to locate it with the equipment available. Combined with the aerial photos overlaid on the map, the points are usually relatively easy to locate and shut off, clean or perform maintenance on.

The high end GPS equipment shown here is used for surveying and engineering purposes. It is accurate to within a couple of centimeters and also gives accurate elevation readings. This type of equipment is used in determining property lines, highway right-of-ways and locations of utility infrastructure improvements. The elevation accuracy is important when considering installation of or improvements to wastewater collection systems as most of these are gravity fed and slope is important.



When we bid a GPS mapping project, we are bidding to provide both paper and electronic maps of the system infrastructure with the goal of enabling the water and wastewater operators to locate the components of the system for maintenance and repair. In the event that utility improvements are being considered, it will likely be necessary for the system to hire an engineer to complete plans and specifications for the project, and the elevations, if required, will be supplied by them.

If you want maps with accurate elevations for all infrastructure elements contained on them and which are accurate to within a couple of centimeters, you will need to use the engineer grade equipment, and the resulting maps will cost substantially more than the maps we provide. If you are looking at being able to see what you have underground and being able to locate valves, curb stops, manholes, etc. for maintenance and repair, the maps we provide should be more than adequate.

If you would like an estimate to map your system,

*continued on page 6*


continued from page 5

contact me and I will figure one up for you. I need to know the total number of points that you would like to have included on the maps, including the water tower, wells, valves, hydrants, hydrant valves, curb stops, meter pits and sampling stations. On the wastewater side, you should include manholes, cleanouts, lift stations and any sewer valves (usually at the treatment plant). I will give you an estimate for the water system, an estimate for the wastewater system and a combined estimate for both systems. There is usually some savings in having both utilities mapped at the same time as there is a savings in travel.

For more information contact:


Barney Whatley  
GPS Technician  
email: [barney@nerwa.org](mailto:barney@nerwa.org)  
cell: (402) 480-4297

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## Operating Tips

*By Mike Lucas, Wastewater Technician*

While crisscrossing the state for NeRWA I have the opportunity to visit with many operators. It should be of no surprise to anyone that there is a vast amount of experience and knowledge among these public servants. I decided to periodically provide a forum for sharing this wisdom with operators across the state.

The operator's tip for this article comes from Terry Higgins. Terry is the operator for the Village of Thedford. Terry has had a lifetime of construction experience. I noticed when I visited Terry there were a couple of rubber boot connectors for sewer



lines lying in front of his shop (see accompanying photo). Roots had penetrated between the boot and the PVC sewer pipe blocking the line. Terry said that he had replaced several others that had the same problem. Terry has a policy that whenever possible: locate the problem, dig it up and make permanent repairs. When installing connectors of this type Terry applies silicone between the pipe and the boot. He rotates the boot to provide an even coat of silicone. As he tightens the bands he taps on them to get a good tight seal. He occasionally encases them in concrete also.

Over the years I have installed a lot of these. I wonder what they look like now. Oh well, someone else's problem now, right?

Do you have a tip to share with other operators? I know there are a lot of them out there. Let me know and we can share your tips through this forum.

## 2015 Membership Directory

*By Salli Kemerling, Office Manager*

The Nebraska Rural Water Association will be publishing a new membership directory that will be available January 2015.

The directory will contain the same information as in the past. If you have any ideas of other things you would like to see in the directory, please let me know.

The mailing for the membership directory updates will be sent out in November with a return time of 2 weeks. The material for the directory needs to be at the publishers by December 1. So if you have any

changes in information up until December 1, please send them to me. The information for the directory comes from the membership renewal forms that you send in to us on or before the month it is due. If I do not receive any changes, the information in the directory will be exactly as it appears on the renewal form that we presently have on file.

If you have any questions, you can call me at 800-842-8039 or email me at [salli@nerwa.org](mailto:salli@nerwa.org).

Thank you.



## You Can't Plan for This!

*By Mike Stanzel, Source Water Specialist*

You can write an Emergency Response Plan, short version (NeRWA) or long version (DHHS), and update it daily, but it won't prepare you completely for the devastation that the town of Pilger, Nebraska received on June 16, 2014.

Unfortunately Russ, Randy, Pat, Mike Lucas and I were traveling to Mobile, Alabama that day to attend the NRWA In-service training. Upon our arrival that evening the news channels were flooded with stories, videos, pictures and live reports about the twin tornadoes that hit Pilger. Like all of you, we could not believe the damage the tornadoes left behind. We were all anxious to get back to Nebraska so we could go to Pilger and assist the water operator.



Although we were there six days and thousands of volunteers later, the destruction was more than I ever could have imagined. The strongest winds I have ever encountered were in 2008 when straight line winds in excess of 90-100 mph hit my hometown of Valley. We were



left with numerous trees and power lines down and a few buildings in the rural part destroyed, but that was nothing compared to Pilger. This storm completely wiped out whole city blocks, buildings, banks, churches, schools, grain bins, semis, trucks, cars and anything else in its path. Even after six days had passed and hundreds of truckloads of trees and debris had been hauled away, it was still unfathomable.

Well, as it worked out, Randy and I were the only ones able to head to Pilger first thing on Monday morning. As we got closer we could start seeing the destruction from at least two miles outside of town. Then after going through the security checkpoint and signing in we met up with the operator and we were ready to lend a hand.



One of our main jobs was to try and stay ahead of the side dumps, track hoes and loaders that were inadvertently running over curb stop boxes and snagging water lines when cleaning debris from basements. It was a challenge to locate all of these especially when

there was so much debris everywhere. So when we did find them, we used t-poles and blue marking paint

to identify them.

We also assisted with taking water samples, chlorine residuals, flushing, repairing several water leaks and everything else that popped up.

This would have been a perfect scenario where GPS mapping would have helped tremendously. There were no addresses, street signs or landmarks to even identify where you were.

There were just foundations and slabs where homes used to be.



There is so much that can be written after a disaster like this, but where does one even start? I will say that it is of utmost importance to get together all those people who helped with the water system, including the neighboring towns who sent over operators to assist



and Rich Koenig from DHHS, to put together a training class aimed at helping prepare a town for what might need to be done if something like this happens again.

Oh, and one last thing: I got to meet rock star “Brett Michaels!” See picture at left.

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**Nathan Jacobson, Manager**

**South Highway 81**

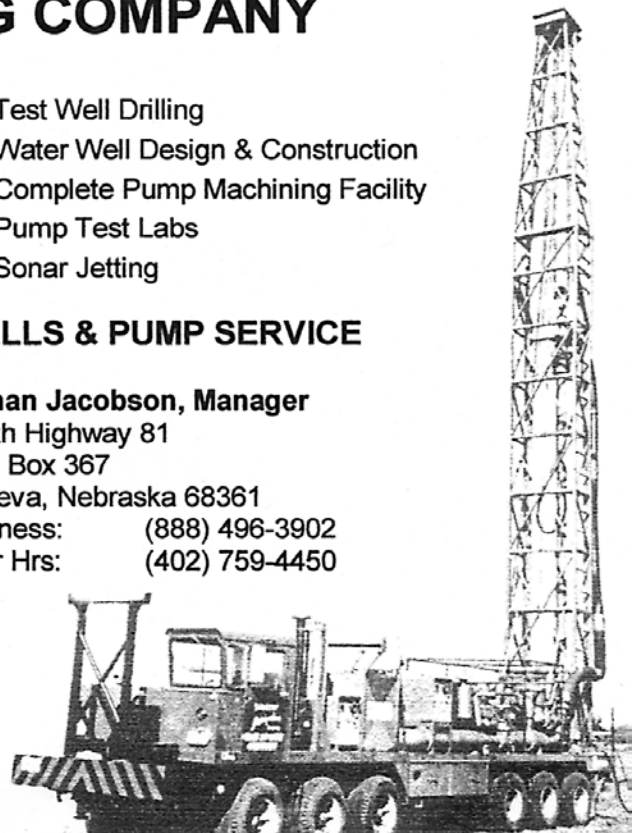
P.O. Box 367

Geneva, Nebraska 68361

Business: (888) 496-3902

After Hrs: (402) 759-4450

**MUNICIPAL & INDUSTRIAL DIVISION**



# **Nebraska Rural Water Association**

## **2014 Fall Conference**

### **CONFERENCE AT A GLANCE**

#### **TUESDAY, SEPTEMBER 16, 2014**

7:30AM-8:00AM	Pre Conference Registration
8:00AM-12:15PM	Attend Pre Conference Sessions
12:15PM-12:45PM	Lunch (Provided for Pre Conference Attendees)
12:45PM-1:45PM	Attend Pre Conference Sessions
2:30PM-6:00PM	Golf Tournament at Riverview Golf and Country Club

#### **WEDNESDAY, SEPTEMBER 17, 2014**

8:00AM-12:00PM	Exhibitor Set-up Begins
8:30AM-12:00PM	Trap Shoot at the Mitchell Valley Trap Club
8:30AM-12:00PM	Poker Run Motorcycle Ride
10:00AM-12:30PM	Registration Opens
11:30AM-12:30PM	Lunch (On your Own)
12:30PM-2:00PM	Training Sessions
2:00PM-2:15PM	Break, Tour Exhibits
2:15PM-3:15PM	Training Sessions
3:15PM-3:30PM	Break
3:30PM-5:00PM	Training Sessions
5:00PM-6:00PM	Social Hour in Exhibit Area
6:00PM-7:00PM	Banquet and Awards

#### **THURSDAY, SEPTEMBER 18, 2014**

6:30AM-7:30AM	Breakfast in Exhibit Area
7:00AM-8:30AM	Conference Registration
7:30AM-8:30AM	Training Sessions
8:30AM-8:45AM	Break, Tour Exhibits
8:45AM-9:45AM	Training Sessions
9:45AM-10:00AM	Break, Tour Exhibits
10:00AM-11:00AM	Training Sessions
11:00AM-11:15AM	Break, Tour Exhibits
11:15AM-12:15PM	Training Sessions
12:15PM-1:15PM	Lunch in Exhibit Area
1:15PM-2:15PM	Training Sessions
2:15PM-2:30PM	Break
2:30PM-3:30PM	Final Training Sessions

**Western Fall Conference**  
**Topics (tentative to change)**

Work Zone Safety  
Hot & Cold Weather Injuries  
Personal Protective Equipment  
Trench Safety  
Electrical Safety  
Regulatory Update  
Tornado Discussion  
Handling Stress in Workplace  
Digger's Hotline Update  
Small System Roundtable  
Cross Connection/Backflow  
Valves  
Water Quality

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**Check-in 3:00 pm**

**Check-out 12:00 noon**

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**Room Amenities:**

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Microwave  
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Local Newspaper



## Western Conference Time

By Pat Petersen, Training Specialist

It's time to start thinking about heading west - heading west to Gering for the Nebraska Rural Water Association's Western Conference. The conference will be held September 16, 17, and 18 at the Gering Civic Center. The Western Conference will once again mix fun and relaxation with a chance to learn new things and gather much needed CEU's to renew your water operator licenses.

Tuesday's Pre-conference will be set to the tone of "Safety Issues in the Workplace." Safety topics to be covered will be "Work Zone Safety," "Extreme Weather Safety," "Personal Protective Equipment" and "Trench Safety Refresher." The presenter for these four sessions will be Bob Hessler with Safetyline Consultants. "Components of Electrical Safety" will conclude the Pre-conference. Rob Pierce with the League of Nebraska Municipalities will deliver this message. Following the Pre-Conference there will be a golf tournament at the Riverview Golf and Country Club. This is set to begin at 2:30 and conclude around 6 PM. If you are interested in golfing talk to Randy Hellbusch and he will get you signed up.

Wednesday morning should start with a "bang" and a "rumble". The bang will be the sound of the annual trap shoot to be held at the Mitchell Valley Trap Club. This is scheduled to begin between 8 and 8:30 AM and conclude around noon. Talk to Russ Topp if you would like to shoot. The rumble will be the sound of the annual poker run to leave the Gering Civic Center between 7:30 and 8 AM and conclude at noon. Talk to Doug Woodbeck if you would like to join the ride.

After all of the fun Wednesday morning, operators will have the opportunity to listen to the Administrator of the Drinking Water Program, Jack Daniel, give a regulatory update. Following Jack, there will be a brief roundtable in regards to the unforgiving weather the State of Nebraska has endured during the summer of 2014. As stated, this will be a **brief** (1 hour) session but will set the table for new and more in-depth training and preparation pertaining to weather disasters at the

Annual Conference to be held in March. Bill Podraza will finish the day with an outstanding presentation on "How to Handle Stress in the Work Place." A social hour, banquet, and operator awards presentation will cap the busy day on Wednesday.

Of course, after the wonderful breakfast that is served at 6:30 AM, Thursday will be the meat and potatoes of the conference. Water, Backflow, Well Drillers, and Waste Water hours will be obtainable throughout the day. Hours will be based on the sessions you choose. Some of the sessions operators can attend will be: Tank Maintenance and Management, Small Systems Round Table, Nebraska 811, the Effects of the Lead-Free Rule, and, as always, the Backflow Challenge. A full agenda will be posted on our nerwa.org website soon. Sessions will conclude at 3:30 PM on Thursday.

If you have never attended the Western Conference and you have the resources to do so, please try to make it to Gering. It is a fantastic mix of fun and learning! See you out west!



**Gurney**  
Bert Gurney & Associates Inc.

Chris Johnson  
Matt Moul

**Location:**  
4428 South 108th Street  
Omaha, NE 68137

**(402) 551-7995**  
**(402) 553-5879 Fax**

# Nebraska Rural Water Association

## EARLY REGISTRATION

### Western Nebraska Fall Pre-Conference and Conference

September 16-18, 2014

Gering Civic Center

1050 "M" Street

Gering, Nebraska

**One name per form. Make sure to indicate all your licenses to insure proper credit hours:**

Name \_\_\_\_\_

Certificate numbers: Water # \_\_\_\_\_ Grade 6# \_\_\_\_\_ WW # \_\_\_\_\_ Well Driller \_\_\_\_\_

System/Company Name \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

DAYS ATTENDING	MEMBER	NON-MEMBER
PRECONFERENCE—Sept 16— <b>DEADLINE SEPT 8</b> (lunch included)	_____ \$65.00	_____ \$90.00
FULL CONFERENCE WITH PRECONFERENCE (includes all meals)	_____ \$165.00	_____ \$190.00
FULL CONFERENCE (includes all meal tickets)	_____ \$100.00	_____ \$125.00
WEDNESDAY ONLY (includes Banquet)	_____ \$60.00	_____ \$85.00
THURSDAY ONLY (includes breakfast buffet and lunch)	_____ \$65.00	_____ \$90.00
GUEST BANQUET TICKETS— \$15 x _____	TOTAL \$ _____	TOTAL \$ _____
GUEST LUNCH TICKETS—\$10 x _____	TOTAL \$ _____	TOTAL \$ _____
GOLF TOURNAMENT ON TUESDAY AFTERNOON _____ YES		
TRAP SHOOT ON WEDNESDAY MORNING _____ YES		
POKER RUN ON WEDNESDAY MORNING _____ YES		

**Meals are included with the conference registration. Extra meal tickets are available above.**

**The venue needs a count for the evening meal. Please indicate if you will staying for the Wed evening meal: Yes \_\_\_\_\_**

**EARLY REGISTRATION DEADLINE  
is Sept 1.  
Fee increases \$25 for registrations  
dated or postmarked between  
Sept 2 and Sept 11.  
NO EARLY REGISTRATIONS AFTER  
SEPT 11. \$50 increase at door.**

TOTAL DUE \$ \_\_\_\_\_  
Late charge, if any \$ \_\_\_\_\_  
Total \$ \_\_\_\_\_

BILL ME \_\_\_\_\_  
PO# \_\_\_\_\_  
CHECK ENCLOSED \_\_\_\_\_  
(Note: Certificates will not be mailed until payment is received in NeRWA office.)

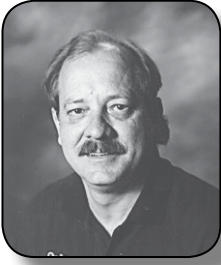
To Register (no phone registrations):  
Fax: 402-443-5274  
Online: www.nerwa.org  
Mail: Nebraska Rural Water Association  
3390 Ponderosa Street

When making room reservations, mention you are with NeRWA  
Monument Inn, 1130 "M" Street  
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DATE REGISTRATION RECEIVED: \_\_\_\_\_

**For NeRWA office use only:** Hours: Water \_\_\_\_\_ BF \_\_\_\_\_ Wastewater \_\_\_\_\_ WD \_\_\_\_\_

Payment received \_\_\_\_\_ Check # \_\_\_\_\_ Certificate mailed \_\_\_\_\_



## An Article about Water and Sewer Rate Increases

By Randy Hellbusch, Circuit Rider

I was planning on writing an article about how much water & sewer rates are increasing in small systems throughout Nebraska due to aging infrastructure and regulations. This article I discovered from “The Kansas City Star” sums it up fairly well and made me realize that this isn’t just a local issue.

BY STEVE EVERLY

THE KANSAS CITY STAR

Think again if you believe running a water or wastewater utility is an uneventful way to make a living.

Everything was once fairly staid, with plenty of cheap water available, and one way or another the waste from toilets and such was quickly — and cheaply — disposed of.

It’s not so simple anymore.

The need to replace water pipes and repair aging water distribution systems is raising costs and rates. Dumping raw sewage into rivers is frowned on and, as Kansas City and other jurisdictions discovered, the fix is expensive.

Toss in water conservation, which is causing revenues to decline for many utilities, and you have a cesspool of financial worries, according to a report released Monday by Black & Veatch, an engineering firm based in Overland Park.

“It’s all about cost pressures,” said Mike Orth, a senior vice president of the company’s water business, which helps utilities deal with the issues.

This is Black & Veatch’s third annual report on the water business, based on a national survey of industry professionals. Previous reports have also shown concerns, although their magnitude grows and new ones crop up.

Another concern is that water and wastewater utilities have an aging workforce, so finding replacement


employees with the necessary training is another challenge.

And the drought in large swaths of the country is increasingly affecting water supplies. The Midwest is still better off than most parts of the country, but the drought is showing up in some parts of the region.

Wichita is facing a water shortage because of the drought across much of western Kansas. The city has even mulled someday building a plant that would allow sewer water to be reused for drinking or other uses.

The Kansas City area, which taps the Missouri and Kansas rivers for water, is so far largely unscathed,

*continued on page 15*



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continued from page 14

but an extended drought and lower river levels could eventually have an impact. Repercussions from the drought could grow and be reflected in next year's report.

Water conservation has not gotten much attention in the Midwest, although low-flow toilets and other measures have still done enough to reduce revenues at 40 percent of the region's water utilities.

One dubious area the Midwest does lead in is having combination sewage and stormwater pipe. In a heavy rain, the water in the combination pipes along with sewage is dumped without being treated. Such systems were also built in some other regions of the country but were especially popular in the Midwest.


As a result, Kansas City has had water pollution troubles, but the city has started replacing pipes with separate systems that will end up costing billions of dollars.

Orth said a big challenge that will continue to face the industry is planning and paying for the infrastructure


replacements and meeting environmental regulations.

As a result, consumers are likely to see higher water and sewer bills for many years. In the survey, 23.4 percent of those who responded said they expected double-digit annual increases over the next decade. Forty percent predicted 5 to 10 percent annual increases.

Read more here: <http://www.kansascity.com/news/business/article511666/Sewer-and-water-rates-will-continue-to-climb-in-Midwest-and-U.S..html#storylink=cpy>



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# Thanks to you, NeRWA now has a new freeze kit!

*By Russ Topp, Circuit Rider*

As most of you know, Nebraska Rural Water Association has a fairly extensive inventory of equipment. Almost all of this equipment is a result of the generous donations given to us by you, our membership. With a portion of those funds we have purchased a new freeze kit.

This freeze kit uses liquid CO<sub>2</sub> (dry ice) to freeze a water line so that repairs can be performed downstream. Nebraska Rural Water Association would appreciate a donation to cover the price of the CO<sub>2</sub> or you can have the appropriate amount of CO<sub>2</sub> on hand at the site. This kit can freeze water lines, plastic or metal, from 1/8 inch up to 2 inch lines. Provided you have enough liquid CO<sub>2</sub>, you can keep the line frozen as long as

necessary to perform the appropriate repairs. To freeze a water line it is imperative that the water remain still in the line until the line is frozen. It is possible to freeze a broken service line provided you are able to kink or hammer the line shut to stop the flow, freeze the line and then make the appropriate repairs.

This new freeze kit uses a fraction of the CO<sub>2</sub> that the old one used so it will be much more economical to use.

If you have any service lines that need to be repaired or replaced and would like to use this kit, please let us know. We will make arrangements to either freeze the lines for you or train you so you can freeze them and make the repairs at your convenience.

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Archived "Good Water News" Articles

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