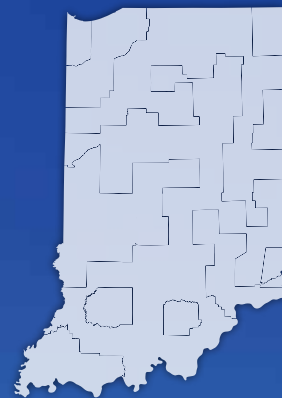
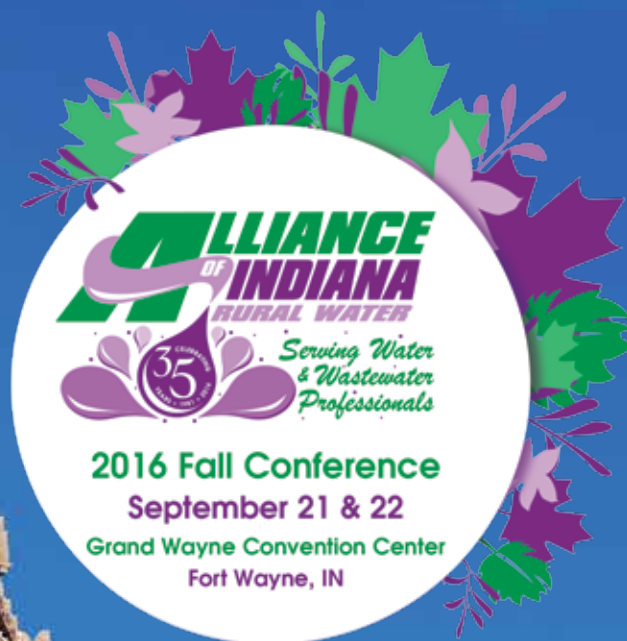


HOOOSIER PIPELINE

SUMMER/FALL 2016



The official publication of the Alliance of Indiana Rural Water



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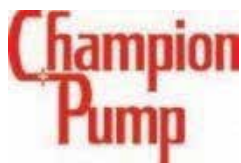
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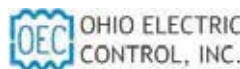
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is a full line supplier of products used for the repair, connection and tapping of water, sewer, natural gas and industrial pipe. All products are manufactured and shipped from our state of the art manufacturing facility located in western New York State. Manufactured products include, the Triple Tap® Tapping Sleeve and line stop fitting, the T3® Service Saddle, the Quick Cam® Rapid Seal Repair Clamp and the Quick Cam® Line Stop and Hot Tapping Saddle. Additionally, Total Piping Solutions can provide ½" to 2" galvanized ductile iron compression fittings, and pipe patch clamps. Products are manufactured in sizes ranging from ½ to 36" in diameter, and are designed to save on installation time and inventory dollars. Each product is designed with enhanced performance features that enable the installer to get the job done correctly the first time.

For the past 15 years, Total Piping Solutions, Inc. has provided utilities, contractors and distributors products of both high value and exceptional quality. This includes the most recent addition to the product line, the Quick Cam® Repair Clamp. This product is available in sizes from 2" to 36" in diameter, carries a working pressure rating of up to 200 psi, and all single panel clamp bands carry an extended range of nearly 1". What this means for the distributor is reduced inventory (more pipe can be covered with fewer clamp sizes on the shelf). For the installer, this product provides faster sealing to higher working pressures, and for the Utility, it means high value, high performance and more return for dollars spent.

The Quick Cam Wide Range Repair Clamp is available as an all type 304 stainless steel product or may be equipped with ductile iron lugs and



various bolting material combinations to allow for maximum value to the end use customer. The Quick Cam Repair Clamp may be ordered for pipe diameters up to 36", and individual clamps can be quickly joined together in the field to form larger diameters as needed. Lugs are easily removed to accommodate installation in tight spaces, and clamps are available in common lay lengths of 9, 12, 15 and 24 and 30".

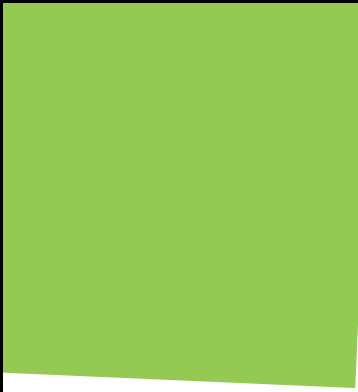
The all type 304 stainless steel Triple Tap® Tapping Sleeve and Line Stop Fitting Product line, available in sizes from 4 to 16" in diameter, provide the same exceptional benefits as the Quick Cam® Rapid Seal Repair Clamp. Tapping sleeves and line stop fittings are designed with an extended range feature that allows for maximum pipe coverage, while providing the opportunity to reduce inventory across the board. All products are constructed with heavier than normal band materials, thicker gaskets and bridge plating, plus a unique triple seal configuration. These features combine to create an industry leading product equipped to perform to

higher working pressures, while providing beam break resistance, and maximum reinforcement of the pipe. This industry first design delivers value for the distributor, the contractor and the utility. For information regarding sizes to 30" in diameter, contact Total Piping Solutions, Inc.

The Triple Tap® Line Stop Fitting is built with the same high quality extra value features as the tapping sleeve, plus it is equipped with an extra heavy duty flanged equipment interface. This interface is available to work with all industry type machines, and completion plugs may be ordered in either a threaded or push type configuration.

The Quick Cam® Line Stop and Hot Tapping Saddle, in sizes ranging from ¾" to 4" will help perform both industrial stop and tap requirements on either copper or steel in plant piping applications.

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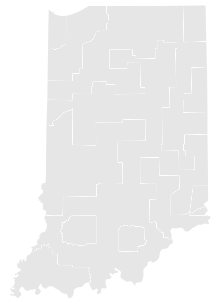
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ON THE COVER: Old courthouse in the center of Fort Wayne, Indiana. © Benkrut | Dreamstime.com





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Water: Indiana's Critical and Most Precious Resource

Although it is one of Indiana's most valuable resources, water seems to be undervalued. First and foremost, we need water to sustain life. But we have also come to expect the many other things that depend on water to function, things such as electric power production, agriculture for foods and fuels, many manufacturing processes and products, recreational uses, bathing, laundry, watering lawns and gardens, beverages, mining – the list can go on and on. This is why water is Indiana's critical and most precious resource!

The Water Study

The Indiana Chamber of Commerce commissioned a report, *Water and Economic Development in Indiana: Modernizing the State's Approach to a Critical Resource*, by Jack Wittman, PhD, of Intera, released in August 2014. This is a very good report that everyone should read. The report can be found at <http://www.indianachamber.com/index.php/water-study>.

The report provides an overview of the water supply in the northern, central, and southern regions of Indiana; the types of demands in these regions; and the planning that suggests the need for a comprehensive statewide water plan as well as the establishment and implementation of a conservation plan(s) that could be local, regional, and/or statewide.

The following topics are covered in the report: the economic effect of water availability; Indiana water facts;

past water shortages; regional water constraints; surface and groundwater availability; future demands; water users; and recommendations, just to name a few.

The report stresses the importance of creating awareness for the need of water supply planning and for working together to cooperatively manage our local, regional, and statewide water supplies for Indiana's future generations.

The Concerns that Have Been Expressed by Small Rural Water Utility Systems of the Water Study

An article posted on the Indiana Public Media, *Indiana Commissions Statewide Water Supply Study* by Jashin Lin, quotes Jack Wittman, Ph.D.: "What's problematic is if you formulate policy without knowing which thing matters most." I am fairly certain he was speaking as a hydrogeologist and not

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as a small rural water system utility. The report covers many things, but to determine “which thing matters most” depends on who you are, where you are located and why you are located there – as a small rural water utility or even as a large water utility.

Some specific fears of the small rural water utilities include over-reaching regulations by the State and

Federal government in terms of implementing unfunded mandates; large utilities swallowing up small utilities; and annual fees to fund the comprehensive State Water Plan.

The concern of large private utilities swallowing up utilities is supported by several documents.

The first is a white paper entitled *Challenges In The Water Industry: Fragmented Water Systems*,

published by Maureen Duffy of American Water. Ms. Duffy stated, “One of the most effective ways to overcome water system inefficiency is to consolidate smaller and underperforming systems and thus create better services for the industry and consumers alike.” A similar statement is found at the bottom of page 11 of the report *Water and Economic Development in Indiana: Modernizing the State's Approach to a Critical Resource*.

The second supporting document is *Senate Bill 257*, signed by Governor Pence on March 22, 2016. This legislation makes it easier to acquire a distressed water or wastewater utility that is not furnishing or maintaining adequate, efficient, safe, and reasonable services and facilities, as described in the Bill.

According to a February 2016 National Rural Water Association data sheet, “Most US water utilities are small; 94% of the country's 51,651 drinking water supplies serve communities with fewer than 10,000 persons, and 80% of the country's 16,255 wastewater supplies fewer than 10,000 persons.” We are small businesses that are the “life blood of the economy.”

It is true small rural communities often have difficulty complying with complicated federal mandates due to limited economies of scale and lack of technical expertise in all areas of administering, operating, and maintaining a water system. However, this situation is often eased by ongoing and continuing support offered through rural water training and the technical assistance offered by organizations such as the Alliance of Indiana Rural Water. You will also find that other small rural water and wastewater systems help each other in these areas when the need arises.

Sustainability of Small Rural Water Systems

In conclusion, small rural water utility system managers, operators, and

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boards should be a part of the efforts to help develop Indiana's comprehensive water plan.

Nothing else can happen without funding, so, again, the governing body of the water utility needs to be diligent at monitoring rates for providing water service. Whether you are a public or private entity, rates should be sufficient to pay all the operating expenses of the water utility, including maintenance costs, operating charges, upkeep, repairs, and interest charges on loans or bonds, while ensuring the existence of reserves against default, adequate money as working capital, and funds for making improvements, additions, extensions, and replacement.

Small rural water utilities should have a local water management

plan that projects into the future for expected residential, industrial, agricultural, or any other type of growth affecting their water utility. The plan needs to make certain it addresses maintaining an adequate supply of safe water, as efficiently as possible, and at reasonable rates to cover the service and facilities.

Even if you live in an area that has an abundance of water, your water utility should have a water conservation plan in place as a safeguard for your small rural water utility.

Yes, it is challenging for small rural water utilities to administer, operate, and maintain their water utility. It may be harder to have access to the needed capital and less efficient to run, since we do not have an expert in each individual

area of the water utility, nor the purchasing power for materials and supplies. Nevertheless, several things are certain. It was the small rural water utility that first took on the challenge of getting water to customers. At the same time, we generally still provide the personal interaction with our customers, and small businesses are the 'life blood of the economy.' We are a small business in Indiana but we make up a part of the approximately 94% of the small water utilities in the US.

As small rural water or wastewater utilities, we need to get involved and stay involved with the comprehensive statewide water resource planning. We need to work together as small rural water and wastewater utilities. We can soar like an eagle by working together and doing things right! ★

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A Thank You to our Rural Water Associations!

Covalen would like to take this time to thank our own AIRWA staff and the staff at NRWA for their incredible commitment to the whole Rural Water Community!

Covalen has been a member of the Alliance of Indiana Rural Water Association and National Rural Water Association for nearly 20 years now, and as those years have progressed and the Associations have grown it has become apparent that these groups have no peers when it comes to their commitment to the water/wastewater industry.

These associations display a remarkable and unmatched desire to provide the most up-to-date training, field technical support and affinity programs while offering national, state and local representation in government affairs pertaining to the water and wastewater industry. Most importantly, they give a voice to thousands of their members when it comes to their day-to-day operations.

As we continue to become more and more aware of the daily and annual challenges facing our industry – from budgetary to regulatory –the Rural Water organizations have stepped up to provide the data, support, training, and peer-to-peer communication that helps the industry survive and prosper!

State and Local Conferences have become more focused on training ALL the staff for the Rural Water members, at the same time never losing sight of the fact that this is a community – a community committed to protecting our most valuable resource, WATER!

We are proud to be a part of this community and we sincerely hope you are too! So the next time you have a chance to meet with someone from these groups, thank them for their effort because we know they are going to thank you for yours!

Sincerely,

The Staff of Covalen Heartland and Carolinas Divisions





Connie Stevens
Executive Director

The Benefits of Membership

Since we have many new people stepping into our membership utilities and we are celebrating our 35th year, I thought it would be a good time to remind everyone about the benefits of your membership. Alliance of Indiana Rural Water is an affiliate of the National Rural Water Association (NRWA). State rural water associations operate contracts that are funded through the NRWA. This funding originates with the Environmental Protection Agency (EPA) and the Rural Utilities Service (RUS), a division of the US Department of Agriculture (USDA). For the Alliance, those programs include two circuit riders, two wastewater technicians, one source water protection specialist and a part-time water programs training director. Of course, this funding does not cover all of the costs involved with the staff's travel, training and technical assistance. Your membership dollars help support this association and we strive to ensure you are getting the very best from this membership. This includes:

Training and Technical Assistance:

Provides water operators, managers, and board members with formal classroom instruction on compliance, operational, financial and managerial issues and with follow-up on-site technical assistance. We conduct over 30 one-day training sessions a year in various locations throughout Indiana. These sessions are all approved for continuing education units through the Indiana Department of Environmental Management (IDEM) for your license

"Your membership dollars help support this association and we strive to ensure you are getting the very best from this membership."

renewal needs. We also provide a water license exam review class at least twice a year.

RD Water Circuit Rider:

Provides free on-site technical assistance to water systems through the Circuit Rider Program funded by the USDA's Rural Utilities Service. The Circuit Rider Program provides hands-on assistance to water systems through leak detection assistance, pipe and valve location as well operational matters such as water treatment, testing, and emergency management. Circuit Riders can also assist with various reports and provide valuable information on water rates, loan and grant applications, and other managerial issues.

US Wastewater Technical Assistance:

Provides free on-site technical assistance and training to small rural and municipal wastewater systems across Indiana. Funded by the Rural Utilities Service. Our goals are to promote proper wastewater treatment, to increase the operational knowledge of system personnel, to increase the management skills and knowledge of

board members and system personnel, to increase the professionalism of wastewater and system personnel, and to promote environmental stewardship across the state of Indiana. We conduct over 30 training sessions a year in various locations throughout Indiana that are IDEM-approved for continuing education units (CEUs) and a wastewater license exam review class at least twice a year.

FSA Source Water Program:

A joint project by USDA's Farm Service Agency (FSA) and the Alliance of Indiana Rural Water designed to help prevent source water pollution through grassroots voluntary practices installed by producers at local levels. The goal of the program is to create local teams to collaborate in the development of Rural Source Water Protection plans that promote clean ground water. The Source Water Protection Plan (SWP) includes: a map outlining the impacted area; an inventory of potential contaminant sources; a definition of areas that match up with entities and organizations; a definition of voluntary measures that may be initiated; identification of public education

initiatives; and identification of entities and resources that will facilitate implementation of the plan and its sustainability.

Legislative Support:

One of the most important benefits for water/wastewater utilities is our legislative efforts. On the national level in Washington DC, we typically meet with Indiana's two Senators and nine

Congress members to discuss the concerns of the rural water industry and to encourage them to further support the goals and needs of the rural water industry. When we met with them earlier this year, because of the Flint, Michigan water issue, the main topic was lead in the drinking water. This did allow us more time with them to discuss the importance of what you deal with to provide safe

drinking water. Stay tuned to the EPA and IDEM updates. We are anticipating additional changes in the lead and copper rule and possible changes in the notification requirements.

On the local level in Indiana, our general assembly did pass a couple of bills that affect the water industry, such as:

- **SB 347**, which repeals the law requiring all utilities to annually report to the Indiana Utility Regulatory Commission (IURC) on each utility's operation and maintenance costs. The bill now requires the Indiana Finance Authority (IFA) to prepare and submit a report on Non-Revenue water (the difference between the volume of water entering a water distribution system and the water consumption billed to the customers served by the system) and water loss in Indiana. It also requires the IFA to study, analyze and report on the infrastructure needs of water utilities. This information will be the result of the WHY FI Water audit and infrastructure needs survey that you have been working on. It is in your utility's best interest to complete this survey to the best of your knowledge. Our staff will continue to assist any of you with this survey if it is not yet completed.
- **SB 257**, which deals with distressed water/wastewater utilities. This bill makes the process of selling a distressed utility easier. While our legislators have good intentions to help utilities that are truly distressed, there are concerns of how easily a utility could be purchased. This bill still requires a willing 'seller' and a willing 'buyer,' but a good salesman could persuade a new mayor, council or board that the sale of their utility could provide money towards other projects in their community. Always consider that there are pros and cons to the sale of a utility. As my good friends with NRWA say, "to rural water and wastewater folks, this is not just a job – it is a passion." ★

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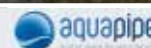


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What a way to welcome spring! Thanks to you, we shattered last year's record with over 700 people in attendance! Thank you to everyone who participated in the conference at the beautiful French Lick Resort.

We welcomed everyone on Tuesday evening with dinner and drinks – *outside*; it was a great time to mingle and get the 'lay of the land.' Wednesday morning we hit the ground running and everyone started off to their special track of classes – administrative, water or wastewater.

That afternoon our Awards Luncheon began with a special message from Keynote Speaker, Jay Gubrud, just before we honored the best of the best in the industry!

Wednesday evening included our exhibitor reception complete with games, photo-booth, food, drinks, and prizes. As if that wasn't enough, we ended the evening with pizza, bowling and drinks! It was a great time to wind down from a full day of classes, while mingling with peers and friends.

Thursday everyone woke up to a delicious hot breakfast buffet before starting in on another day of classes. We wrapped up the conference by announcing the big Sportsman's Raffle grand prizewinner. This year's winner was Steve Vail from NineStar Connect, who walked away with a trip-for-two prize package to the 100th running of the Indianapolis 500 worth over \$2,500. Jack Chapman from Nucor Fastener took home the shotgun. Isaac Heeke from Dubois Water won the all-inclusive trip for two to the NRWA conference in Orlando, FL – sponsored by Covalen and Midwestern Engineers. Thank you to all our exhibitors who contributed to the raffle and to everyone who participated! ★





Conference Attendee Wins FREE Trip!

The Alliance of Indiana Rural Water teamed up with sponsors Covalen and Midwestern Engineers, Inc. to give away an all-inclusive trip for two to the 2016 National Rural Water Association's WaterPro Conference in Orlando, Florida. The winner was **Isaac Heeke** from Dubois Water. (Runner up was Todd Watts from Austin WWTP, who will go in the event Isaac is unable to attend.) Isaac and his guest will be attending the NRWA conference, September in **Orlando, FL – all expenses paid!**

Everyone at the Alliance, Covalen, and Midwestern Engineers is excited for Isaac to have the opportunity to experience the NRWA conference! NRWA conferences are always packed with informative classes for water and wastewater operators, managers and board members, along with the opportunity to socialize and discuss problems and solutions with peers and hundreds of exhibitors.





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2016 Alliance Awards

All awards presented by President, Tim Frederick and Executive Director, Connie Stevens.

Wastewater System Operations Specialist of the Year

Doug Clodfelter, Clear Creek Conservancy District – *Not Pictured*.



Water Operations Specialist of the Year

Gene Eaton, Napoleon Community Rural Water



Manager of the Year

Timothy Woodward, Turkey Creek Regional Sewer District



Administrative Professional of the Year

Mona Gaesser, Town of Gentryville



Associate Member of the Year

London Witte Group, LLC



President's Choice

Greg Gee, City of Lawrence Utilities



Steward of the Environment Award

Brian Peters, Mulzer Crushed Stone



Reggie Baker – InWARN Award

Tim Frederick, Alliance Board President

2016 Operator Expos

Our annual Operator Expos and Hog Roasts were a success once again! Over 220 people attended the Huntingburg event, and Akron grew again this year to over 190! Thank you to everyone who attended, and to our demonstrators and sponsors. This year we added a meter toss competition that was met with plenty of excitement! Huntingburg winners were: Powder Puff – Nancy Harmon, South Henry RSD; Young Bucks – Adam Yeager, Rural Membership Water Corp.; Grizzly Old Veterans – Paul Cornet, Edwardsville Water; and Backhoe Rodeo winner – Marty Brown, Gentryville Utilities. Akron winners were: Powder Puff – Lisa Williams, Town of Winamac; Young Bucks – Peni Faitele, City of Lawrence Utilities; Grizzly Old Veterans – Tom Schobert, Town of Hometown; and Backhoe Rodeo – Mike Reid, Steuben Lakes RWD. Congrats to all as we look forward to next year! ★





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MECHANICAL

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Maintenance
Pump Repairs
Mechanical Maintenance

Dear Rex



By Rex Blanton, Wastewater Training Director

As a Wastewater Technician for the Alliance of Indiana Rural Water, I receive numerous questions throughout the year via phone calls, emails, texts and in person. For the purpose of this article, I will have them all in the form of letters instead. I get questions on all aspects of the wastewater industry and I hope some of you can use these to assist your community if you have had similar situations. Some can be answered quickly, but others take some research as well as a visit to observe the problem. I will use the ones I can answer briefly for the content here, due to the lengthy nature of some process problem options.

Dear Rex,

I'm writing in regards to our IDEM Inspection at our WWTP last week. The Inspector told us that we should use bench sheets that can be downloaded from IDEM's website instead of the legal pads we have been using for years. I spend a lot of time each month drawing the columns on the pads to make sure they are nice and neat. I'm comfortable with the ones I currently use and don't want to change. What should I do?

Thanks,
Old School

Dear Old School,

First of all, you should comply with suggestions given to you by your IDEM Inspector, not just because, but due to the fact they inspect many facilities and if all the bench sheets are the same, it makes for a smoother inspection. You may be omitting some needed information on your handmade sheets and the new ones will provide you with all the information needed for you or your supervisor to complete the MRO in a timely fashion. Besides, think about all the time you will save by just printing them from the website.

Dear Rex,

I attended an Alliance of Indiana Rural Water training session recently and received 5 contact hours. Another attendee told me that I can use General Hours as well as Technical Hours towards my certification renewal. He said that 30% could be General Hours. I currently have 10 Technical Hours for my renewal, but do I have to get 3 General Hours to fulfill the 30% breakdown needed?

Thanks,
Knot Shure



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Dear Shure,

The 70-30 breakdown was adopted to allow you to get and use up to 30% of your total needed to renew, as General Hours. Some training sessions do not get approved for all Technical Hours, so this is an option to assist the operator in accumulating the needed total. However, 100% Technical Hours is acceptable and you do not have to have any General Hours.

Dear Rex,

I'm the Town Manager and would like to cut back on some costs at the WWTP. Our main focus is overtime pay. Our NPDES Permit calls for testing seven days a week. On weekends and holidays we have been paying someone to come in and complete the lab tests. Since a lot of the holidays are federally recognized, and the NPDES Program is EPA (federal) do we have to perform the sampling and tests on these days?

Thanks,
Penny Pincher

Dear Pincher,

Per your NPDES Permit language, you must sample and perform the tests every day of the week, month and year. You will not be able to cut back on your budget in this particular area.

Dear Rex,

We have had some discussions concerning contacting IDEM for questions, information, etc. My direct supervisor does not want us to ever call, because it will draw attention to us and IDEM will think we don't know what we are doing and send someone the next day to inspect us. He wants us to note it on the reports and they can call us if they have questions.

Thanks,
Under Pressure

Dear Pressure,

IDEM is not your adversary, they are however your regulatory agency. Calling them will not draw attention, at least

not bad attention, to your system. Not contacting them, especially in times of non-compliance will get you some attention you don't want or need. Being open with any situations that arrive at the facility is always much better. Remember, a letter or a 'Back to Jesus' phone call is much preferable to losing your certification, paying fines or going to jail. Communication, whether it's

good news or bad, is always acceptable and appreciated.

If you like the format of this article, let me know and I can continue with some other questions that operators and systems have contacted me about in future publications.

Rex Blanton
WW Training Director ★

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Mutual Aid Assistance

By Gordon Meyer, Water Circuit Rider



In my last *Hoosier Pipeline* article I stressed the importance of having up-to-date Emergency Response Plans (ERP) and Vulnerability Assessments (VAS). Another way to respond to emergencies is to have mutual aid agreements with other neighboring utilities. When an emergency does occur it is great comfort to have the back of a neighboring utility and to know that they have yours. After the Henryville tornado in 2012 member water systems in the Southern Indiana Water Professionals Association (SIWPA) provided emergency generators, equipment and manpower to help Rural Membership Water keep their system up and running.

Another vital assistance organization is The Indiana Water/Wastewater Agency Response Network (InWARN), the formalized statewide system of utilities that delivers mutual aid after major emergencies. InWARN provides a practical mutual aid agreement to reduce bureaucratic red tape in times of emergency. Their goal is to provide aid to member utilities after disasters by



allocating appropriate personnel with the expertise, equipment and tools to assist the damaged utility to return them to operation as quickly as possible.

After a disaster, member utilities can request assistance through InWARN's Regional Emergency Operations Coordinators (REOCs) or through their website to indicate the assistance needed. Other member utilities can respond if they have the personnel and equipment to do so.

If you are interested in more information about InWARN and becoming

a member, you can access the webpage at www.inwarn.org. You can also obtain a copy of the Mutual Aid Agreement (MAA), read it over and, if you agree to the terms, sign it and mail it with the completed emergency contact information to IDEM's Security & Counter Terrorism Coordinator at the address on the last page of the MAA. Membership is granted upon the receipt of the signed MAA and the required emergency contact information.

You never know when a disaster will happen but it is nice to know that help is just a phone call away when emergency assistance is needed. We at the Alliance of Indiana Rural Water are always there for you with technical assistance and guidance to help you through an emergency as well as day-to-day-operations.

You can also be ready for emergencies by having an up-to-date Emergency Response Plan and by developing mutual aid agreements with neighboring utilities and joining InWarn to return your system to operation as soon as possible to provide safe drinking water for your customers and wastewater treatment to protect the environment.

The information provided about InWarn was taken from an informational pamphlet provided by them and is available on their website, which can also be accessed by a link from our website at www.inh2o.org. ★



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FAREWELL WISHES TO DAN MCVAY

With more than 25 years in the industry, Regional Manager, Dan McVay, is retiring after 15 years of service with DN Tanks. He has been an active member of AWWA and was a deserving recipient of the Fuller, LaDue, Lechner and Water Wheel awards. We appreciate his years of dedication, support and commitment to our customers and to the industry. We wish Dan and his wife, Sharon, well as they embark on this new journey.



WELCOME STEVE APPEGATE



As Dan leaves, we welcome a new addition to the DN Tanks family. We are pleased to introduce your new point of contact for your area, Steve Applegate. Please feel free to contact Steve regarding new and / or existing tank projects.

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City finds unique solution to water main replacement and becomes first in the state to use C.I.P.P. technology with internal service reinstatement.

Huntingburg, Indiana –

Crossroads of America; friendly, quiet, quaint and clean, and now a pioneer for a new technology. Recently when the crew of a Michigan-based, water-main lining company (FER-PAL Construction) came to the city: the wonderful charm, friendly atmosphere and clean streets remained the same!

Two years ago, when Utilities Superintendent Todd Williams was tasked by Mayor Spinner to rehabilitate the water line down 4th Street (without creating havoc and disruption to the City's downtown businesses and its citizens), Williams got to work researching new technologies. Directional drilling, pipe bursting and cured in place pipe (C.I.P.P.) were some of the options he found. With less excavation, the ability to provide a new pipe and a quicker turn-around, at the same price as traditional construction, Williams quickly discovered that structural C.I.P.P. lining would be the best fit for the city's 120-year-old 4th and Jackson Street pipes. Now he would need to convince the people of Huntingburg. The approval process began with Mayor Spinner,



Minimal excavations meant no disruptions for businesses like Fat & Sassy. The coffee and sweets shop remained open without interruption of water service while the work commenced.

City Council and the DDA. Soon after everyone was on board, a decision was made to add engineering support. Richard Burch and the team at Midwestern Engineering was hired to assist with project design. Mildly skeptical of any new technology, Richard further investigated the C.I.P.P. process, suggesting a field trip of sorts. Last fall, he and Williams

boarded a small plane and visit an ongoing project near Chicago to view the procedure first hand. Returning home to Loogootee convinced of the validity and usefulness of this water main alternative, Burch completed the design and the project went out to bid in January 2016. The City awarded the project on February 24 and prepared for a new infrastructure endeavour! ★



Before: Huntingburg's 120 year old pipe prior to cleaning and lining



After: The lined pipe

PROJECT DETAILS:

Scope of work: 2500'

Size of Pipe: 6" & 8"

Duration: 45 calendar days

Date of completion:

June 11, 2016

Total cost: \$694,445

League Stadium:

Used in the 1991 movie "A League of Their Own" starring Tom Hanks, Rosie O'Donnell, Geena Davis, and Madonna





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Dear Attendee:

Please join us for our **2016 Fall Conference** at the **Grand Wayne Convention Center** in **Fort Wayne, Indiana** on **September 21 and 22**.

Here's what you can expect this year:

-  A hospitality gathering on Tuesday evening promising fun and camaraderie, along with food and drinks!
-  Earn up to **10 Water and Wastewater CEUs!**
-  Enroll in **NetDMR** at the conference! Bring your laptop and **IDEM staff** will be available to personally assist certified operators and permit holders in signing up for **NetDMR**. (You will receive two technical hours once you are fully enrolled in **NetDMR** and submit your first complete DMR in the live version.)
-  An Exhibit Hall filled with exhibitors — where you can see all the **new products** related to our industry and hear about new and exciting **services offered to utility professionals**.
-  Each day offers an **administrative track** of classes in addition to water and wastewater tracks.
-  **Water and Wastewater Exam Review sessions and Mock Exams on Wednesday.**
-  The **“Best Tasting Water in Indiana” Taste Test and Luncheon** on Wednesday will crown one utility's water King! The entry form can be found on the back of this packet.
-  Friend of rural water and wastewater utilities, **Senator Charbonneau**, will deliver our Keynote Address during lunch on Wednesday.
-  **Plan on having some fun during the Reception in the Exhibit Hall on Wednesday evening.** As classes conclude for the day, we invite everyone to gather in the exhibit hall for live music, games, drinks, food, exhibitor bingo and the Sportsman's Raffle!
-  Later Wednesday evening, join us for a **hospitality** event.
-  The **Annual Membership Meeting on Thursday** will include **board elections for the district 1 and 2 seats, as well as 1 At-Large position.** Register to vote or to run for the board on our website.
-  Be sure to be there for Thursday's **GRAND PRIZE DRAWING!**



You **really** don't want to miss out on our 2016 Fall Conference—so, **don't hesitate to make your plans to attend.** We look forward to seeing you on **September 21 & 22** at the **Grand Wayne Convention Center, 120 W. Jefferson Blvd. in Fort Wayne!**

THINGS TO DO

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Technical Sessions

What follows is a tentative list of topics and invited speakers.

WEDNESDAY, SEPTEMBER 21

8:00 a.m. - 9:00 a.m.

WATER SESSION

THE CARE AND FEEDING OF YOUR WATER SUPPLY WELLS

Phil Bonneau and Rick Ortman
Ortman Drilling & Water Services

WASTEWATER SESSION

CAN I AFFORD TO USE THAT? EVALUATING NEW TECHNOLOGY AND ITS VALUE FOR SEWER AND STORMWATER INFRASTRUCTURE

Brad Boyer, Watermark Engineered Product Sales, Inc.

9:15 a.m. - 10:15 a.m.

WATER SESSION

HYDRAULIC MODELING - PREDICTING AND RESOLVING WATER QUALITY ISSUES

Jim McNulty, Strand Associates, Inc.

WASTEWATER SESSION

WASTEWATER TREATMENT EFFICIENCY AND WET WEATHER IMPROVEMENTS

Andrew Robarge, Commonwealth Engineers, Inc.

10:45 a.m. - 11:45 a.m.

WATER SESSION

FLINT WATER CRISIS

Mike Ricks, Gary Reynolds and Dave Harvey
Water Solutions Unlimited

WASTEWATER SESSION

WHY REGIONAL WASTEWATER TREATMENT WILL BECOME MORE COMMON IN THE FUTURE

Richard Radcliff, Beam, Longest & Neff

1:15 p.m. - 2:15 p.m.

WATER SESSION

BASIC ACCOUNTING FOR OPERATORS

Todd Gardner, Knox Water Works

WASTEWATER SESSION

PRESSURE SEWERS - AN ALTERNATIVE SEWER REHAB TECHNIQUE (PART 1)

Bob Jordan, Covalen

2:45 p.m. - 3:45 p.m.

WATER SESSION

CONTROLLING WATER LOSS WITH "LARGE METER TESTING" AND "LEAK DETECTION"

Matt Brown, M.E. Simpson Co., Inc.

WASTEWATER SESSION

PRESSURE SEWERS - AN ALTERNATIVE SEWER REHAB TECHNIQUE (PART 2)

Bob Jordan, Covalen

THURSDAY, SEPTEMBER 22

8:30 a.m. - 9:30 a.m.

WATER SESSION

THE BACKBONE OF A STELLAR CITY

John Wetzel, P.E., Midwestern Engineers, Inc.
Mayor Dennis Spinner

WASTEWATER SESSION

DEMYSTIFYING NUTRIENT REMOVAL (PART 1)

Tom Hinde, Air Diffusion Systems

10:00 a.m. - 11:00 a.m.

WATER SESSION

RTCR / LEVEL 2 ASSESSMENTS (PART 1 OF 4)

Carrie Lowe, Jeff Guin, Liz Melvin, IDEM

WASTEWATER SESSION

DEMYSTIFYING NUTRIENT REMOVAL (PART 2)

Tom Hinde, Air Diffusion Systems

11:15 a.m. - 12:15 p.m.

WATER SESSION

RTCR / LEVEL 2 ASSESSMENTS (PART 2 OF 4)

Carrie Lowe, Jeff Guin, Liz Melvin, IDEM

WASTEWATER SESSION

MICROBIOLOGY

Ryan Hennessy, Midwest Contract Operations (MCO)

NETDMR LAB

1:30 p.m. - 2:30 p.m.

WATER SESSION

RTCR / LEVEL 2 ASSESSMENTS (PART 3 OF 4)

Carrie Lowe, Jeff Guin, Liz Melvin, IDEM

WASTEWATER SESSION

ACCURATE NPDES DATA REPORTING

Becky Ruark, Lynn Raisor, Bridget Murphy, IDEM

NETDMR LAB

2:45 p.m. - 3:45 p.m.

WATER SESSION

RTCR / LEVEL 2 ASSESSMENTS (PART 4 OF 4)

Carrie Lowe, Jeff Guin, Liz Melvin, IDEM

WASTEWATER SESSION

SEQUENTIAL BATCH REACTORS (SBRs)

John Dailey, Archaea Solutions, Inc.

AGENDA AT A GLANCE

TUESDAY, SEPTEMBER 20, 2016

2:00 P.M. BOARD OF DIRECTORS MEETING

TO 3:00 P.M. EARLY REGISTRATION/
8:00 P.M. ATTENDEE PACKET PICK-UP

TO 6:00 P.M. PRE-CONFERENCE HOSPITALITY EVENT
8:00 P.M. (FUN, FOOD & DRINKS)

WEDNESDAY, SEPTEMBER 21, 2016

TO 7:00 A.M. REGISTRATION DESK OPEN
5:30 P.M. IN LOBBY

7:45 A.M. WELCOME ADDRESS
CONTINENTAL BREAKFAST

TO 8:00 A.M. CONCURRENT TRAINING SESSIONS
9:00 A.M.

TO 9:00 A.M. BREAK - FOYER
9:15 A.M.

TO 9:15 A.M. CONCURRENT TRAINING SESSIONS
10:15 A.M.

TO 10:15 A.M. EXHIBIT HALL GRAND OPENING
10:45 A.M.

TO 10:30 A.M. WASTEWATER & WATER EXAM REVIEWS
12:00 P.M.

TO 10:45 A.M. CONCURRENT TRAINING SESSIONS
11:45 A.M.

TO 11:45 A.M. WATER TASTE TEST LUNCHEON
1:15 P.M.

TO 1:15 P.M. WASTEWATER & WATER MOCK EXAMS
2:15 P.M.

TO 1:15 P.M. CONCURRENT TRAINING SESSIONS
2:15 P.M.

TO 2:15 P.M. BREAK IN EXHIBIT HALL
2:45 P.M.

TO 2:45 P.M. CONCURRENT TRAINING SESSIONS
3:45 P.M.

TO 3:45 P.M. RECEPTION IN EXHIBIT HALL WITH
5:45 P.M. LIVE MUSIC, GAMES, FOOD, PRIZE
DRAWINGS, DRINKS, & SPORTSMAN'S RAFFLE!

TO 8:00 P.M. HOSPITALITY EVENT
10:00 P.M.

THURSDAY, SEPTEMBER 22, 2016

TO 7:00 A.M. REGISTRATION DESK OPEN
3:00 P.M. IN LOBBY

TO 7:00 A.M. HOT BREAKFAST IN EXHIBIT HALL
8:30 A.M.

8:00 A.M. ANNUAL MEMBERSHIP MEETING
WIN A KINDLE FIRE!

TO 8:30 A.M. CONCURRENT TRAINING SESSIONS
9:30 A.M.

TO 9:30 A.M. BREAK IN EXHIBIT HALL
10:00 A.M.

TO 10:00 A.M. NETDMR LAB
11:50 A.M.

TO 10:00 A.M. CONCURRENT TRAINING SESSIONS
11:00 A.M.

TO 11:00 A.M. BREAK IN EXHIBIT HALL
11:15 A.M.

TO 11:15 A.M. CONCURRENT TRAINING SESSIONS
12:15 P.M.

TO 12:15 P.M. GRAND PRIZE DRAWING
12:30 P.M.

TO 12:30 P.M. LUNCH - ON YOUR OWN
1:30 P.M.

TO 1:00 P.M. NETDMR LAB
2:00 P.M.

TO 1:30 P.M. CONCURRENT TRAINING SESSIONS
2:30 P.M.

TO 2:30 P.M. BREAK - SHOTGUN RAFFLE DRAWING
2:45 P.M.

TO 2:45 P.M. CONCURRENT TRAINING SESSIONS
3:45 P.M.

5 TOTAL CONTACT HOURS WEDNESDAY

5 TOTAL CONTACT HOURS THURSDAY

BOARD ELECTIONS

The Annual Membership Meeting on Thursday will include board elections for the district 1 and 2 seats, as well as 1 At-Large position. Register to vote or to run for the board on our website.

Technical Registration

SEPTEMBER 21 & 22, 2016

Please print or type.

List all attendees and indicate the type of registration desired.

We encourage you to fax or email completed forms:

Fax: 317-736-6676 ✉ email: alliance@inh2o.org

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Please list ALL Attendees and specify registration type for each:

Name _____

Name _____

Name _____

Name _____

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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Registration Rates

Full Registration

Two (2) days of technical sessions; and Pre-Conference Hospitality Event (Tues.); Exhibit Hall Access; Water Taste Test Luncheon (Wed.); Reception (Wed.); Hospitality Event (Wed.); Hot Breakfast Buffet (Thurs.)

Wednesday ONLY Technical sessions; Exhibit Hall Access; Water Taste Test Luncheon and Reception; Hospitality Event

Thursday ONLY Technical Sessions; Exhibit Hall Access; Hot Breakfast Buffet

Spouse / Guest Registration

Pre-Conference Hospitality Event (Tues.); Exhibit Hall Access; Water Taste Test Luncheon (Wed.); Reception (Wed.); Hospitality Event (Wed.); Hot Breakfast Buffet (Thurs.)

Member		Non-Member	
Before September 7, 2016	After September 7, 2016	Before September 7, 2016	After September 7, 2016
\$135	\$160	\$185	\$210
\$90	\$115	\$115	\$140
\$80	\$105	\$105	\$130
\$50	\$75	\$75	\$100

PLEASE INDICATE NUMBER OF ATTENDEES PLANNING TO ATTEND WEDNESDAY'S WATER TASTE TEST LUNCHEON.

Dietary restrictions and/or special requests:



Method of Payment

☐ Please send invoice ☐ Enclosed is my check # _____

☐ Visa ☐ MasterCard Card # _____ Exp Date _____

Name on Card _____ Billing Zip _____

Signature _____

Total \$

Registration form must be returned to the Alliance office no later than September 7, 2016 for "Early Bird" registration prices.

Registrations will be fully refunded if cancellation is made before September 14, 2016. ■ Refunds after September 14, 2016 will be subject to an administrative processing fee.

Phone: 317-789-4200 ✉ Fax: 317-736-6676 ✉ Email: alliance@inh2o.org ✉ Address: P.O. Box 789, Franklin, IN 46131

Admin. / RSD Registration

SEPTEMBER 21 & 22, 2016

Please print or type.

List all attendees and indicate the type of registration desired.

We encourage you to fax or email completed forms:

Fax: 317-736-6676 ✿ email: alliance@inh2o.org

Host Hotel

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Registration Rates

Full Registration

Two (2) days of Administrative/RSD sessions; and Pre-Conference Hospitality Event (Tues.); Exhibit Hall Access, Water Taste Test Luncheon (Wed.); Reception (Wed.); Hospitality Event (Wed.); Hot Breakfast Buffet (Thurs.)

Wednesday ONLY Administrative/RSD sessions; Exhibit Hall Access; Water Taste Test Luncheon and Reception; Hospitality Event

Thursday ONLY Administrative sessions; Exhibit Hall Access; Hot Breakfast Buffet

Spouse / Guest Registration

Pre-Conference Hospitality Event (Tues.); Exhibit Hall Access; Water Taste Test Luncheon (Wed.); Reception (Wed.); Hospitality Event (Wed.); Hot Breakfast Buffet (Thurs.)

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Before September 7, 2016	After September 7, 2016	Before September 7, 2016	After September 7, 2016
\$135	\$160	\$185	\$210
\$90	\$115	\$115	\$140
\$80	\$105	\$105	\$130
\$50	\$75	\$75	\$100

PLEASE INDICATE NUMBER OF ATTENDEES PLANNING TO
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Dietary restrictions and/or special requests:

Registration form must be returned to the Alliance office **no later than September 7, 2016** for "Early Bird" registration prices.

Registrations will be fully refunded if cancellation is made before September 14, 2016. ■ Refunds after September 14, 2016 will be subject to an administrative processing fee.

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Admin. / RSD Admin. / RSD Admin. / RSD Admin. / RSD Admin. / RSD

Administrative / RSD Sessions

Administrative / Regional Sewer District Sessions

What follows is a **tentative** list of topics and invited speakers.

WEDNESDAY, SEPTEMBER 21

8:00 a.m. - 9:00 a.m.

GOING GREEN AT WATER AND WASTEWATER TREATMENT PLANTS

Toby Church, P.E., Commonwealth Engineers, Inc.

Becoming more energy efficient can help municipal water treatment plants lower operating costs, free up funds for maintenance needs, fund projects, and the benefits of efficiency go on and on.



IRSDA MEETING / LEGISLATIVE UPDATES

Ted Stubbs, Brookville Lake RSD

Tim Frederick, Steuben Lake RWD

Connie Stevens, Alliance of Indiana Rural Water

9:15 a.m. - 10:15 a.m.

A PARTNERSHIP TO LEVERAGE YOUR NEEDS

Ron Mangus, Kim Blanchet and Rochelle Owen
Indiana Bond Bank / USDA-RD

USDA-RD programs, interim financing for USDA-RD loans, equipment financing options, small projects funding.

10:45 a.m. - 11:45 a.m.

INTERNAL CONTROLS

Dan Hedden, Umbaugh

Did you adopt the Uniform Internal Control Standards for Indiana Political Subdivisions? Now ... let's talk about what follows.

1:15 p.m. - 2:15 p.m.

FEDERAL MANDATES IMPACTING YOUR UTILITY

Parvin Price, Bose McKinney & Evans, LLP

This presentation is designed to identify recent federal mandates that will impact your utility, your employees, and your customers.

2:45 p.m. - 3:45 p.m.

CURRENT TRENDS IN UTILITY INFRASTRUCTURE REPLACEMENT STRATEGIES AND HOW THEY ALIGN WITH YOUR UTILITY RATES

Jeff Rowe, CPA, Umbaugh

This presentation will look at the history of water utility infrastructure, water infrastructure replacement strategies and ideas of how to most effectively plan and pay for these costs.

THURSDAY, SEPTEMBER 22

8:30 a.m. - 9:30 a.m.

UTILITY COLLECTIONS, RIGHT OF WAY AND EASEMENTS

J. Christopher Janak and Stephen C. Unger

Bose McKinney & Evans, LLP

Provide water and wastewater utilities options for collecting outstanding bills and hot button easement and right of way issue.

10:00 a.m. - 11:00 a.m.

THE IMPORTANCE OF UTILITY BUDGETS

Jessica Eckerle, CPA, Umbaugh

During our discussion we will review the benefits of effective budgeting, the important questions that will arise during the budgeting process and key techniques for budgeting to be effective for the utility.

11:15 a.m. - 12:15 p.m.

RD APPLY

Laura Hamann, USDA Rural Development

Learn about the new electronic application system for USDA Rural Development water and environmental programs.

1:30 p.m. - 2:30 p.m.

A PRIMER FOR BOARD MEMBERS (PART 1)

William L. Etzler, P.E., Engineering Resources, Inc.

A basic guide to managing your utility as a business.

2:45 p.m. - 3:45 p.m.

A PRIMER FOR BOARD MEMBERS (PART 2)

William L. Etzler, P.E., Engineering Resources, Inc.

A basic guide to managing your utility as a business.



We are pleased to welcome all Regional Sewer Districts to our Fall Conference! As partners in bringing clean water and sanitary sewers to our rural and suburban Indiana communities, we value the participation of our friends from the IRSDA.

Official Contest Rules

1. Upon arrival at the Hilton Fort Wayne at the Grand Wayne Convention Center, register your one-gallon sample at the registration desk no later than 9:00 a.m. on Wednesday, September 22, 2016. Samples will be stored by Alliance staff until the the "Best Tasting Water in Indiana" Taste Test during Wednesday's luncheon. **A representative from the system MUST be present during the contest.**
2. It is preferable that you submit the one-gallon container of water, labeled with your system name on the bottom, in a glass container.
3. Store your sample on ice, in a small, labeled cooler. No large coolers will be accepted, as space is limited. All coolers will need to be retrieved no later than 3:15 p.m. on Thursday, at the registration desk.
4. Systems submitting samples must meet IDEM approval by having no violations of bacteriological testing or chemical monitoring for two years prior to the Taste Test.
5. A panel of judges will be selected to rate samples based on taste, odor, and clarity.
6. The winner will receive a news release to appear in the spring *Hoosier Pipeline* magazine, as well as an all-inclusive trip to Washington, DC to compete in the NRWA Great American Water Taste Test 2017.



"Best Tasting Water in Indiana" Taste Test 2016

Sponsored by the Alliance of Indiana Rural Water

Official Entry Form 2016 "Water Taste Test"

Water System: _____

Samples submitted by: _____

Describe your water treatment process: _____

How many gallons a day do you pump? _____

What is the population of your city or town? _____

Pre-register by mailing or faxing entry form to AIRW by 8/20/15.

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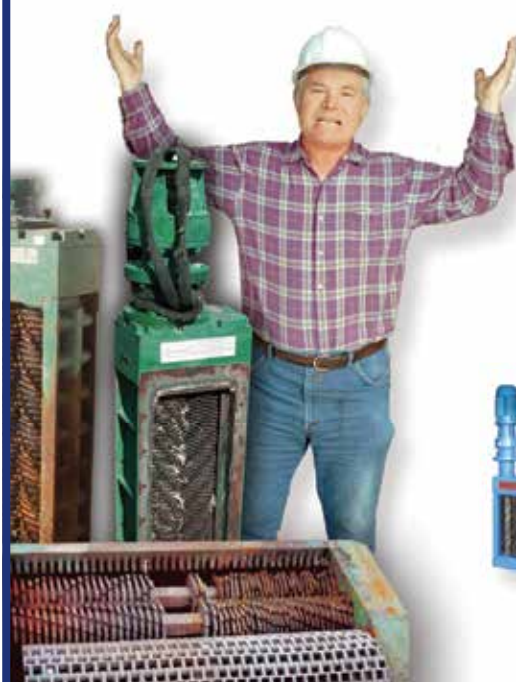
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Mention Group Code: AOI when booking your room.

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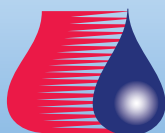


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Educator of the Year



Toby Days and his message to “Know and Protect the Source” has won the 2016 Vigo County Conservation Educator of the Year! The Award was presented to Toby Days at the Vigo County Soil and Water Conservation District Annual Meeting and Banquet on February 24, 2016.

The Conservation Educator of the Year Award is given each year to an educator who goes ‘above and beyond’ to bring environmental experiences to his or her students. The criteria considered for the award include immersing students in environmental awareness, especially with a focus on the conservation of local natural resources; using the outdoors as a learning environment; developing professionally through environmental education workshops and seminars; and having a profound dedication to teaching and students.

For the past 14 years, Toby Days has been the Source Water Specialist for the Alliance of Indiana Rural Water, travelling all over the country talking with young and old about where their drinking water comes from, what does it become, where does it go and how they can protect it.

From working with community leaders and government agencies to develop a Source Water Protection plan that lays out a structure approach on how communities will protect their

drinking water source, to putting on an interactive educational program to educate classroom full of kindergarten students about the fascinating journey water takes to get to their tap, Toby is able to deliver his message and provide the tools necessary for all to know the source of their drinking water source and how to protect it.

Toby has had plenty of opportunities to deliver his message, “Know and Protect the Source,” to the West Central part of Indiana.

Since 2010, Toby has set up a groundwater model, distributed educational material and spent a fun filled day with Becky Pittman, water operating specialist for Sister of Providence, carrying on fascinating conversations about water with 1000s of people from all over the State at the annual Sisters of Providence EarthDay festival.

For about the same time, Toby has been setting up an interactive display and putting on an enthusiastic presentation with John Allen, water operating specialist for the Town of Seelyville, at the annual Vigo County 5th grade Field Day. Over the course of 3 days, 2000 5th grade students are bused into the Vigo County fairgrounds and guided through 15 different displays stops to learn about our natural resources and where their food comes from. Every year, Toby and



Jon’s presentation is voted by students and teachers as one of the top rated presentations.

In addition, Toby has worked with numerous communities to develop Source Water Protection Plans; set up educational displays at street festivals, car shows and pancake breakfasts; and facilitated training classes for emergency responders, community leaders, governing bodies and water and wastewater professionals – all to deliver his message and provide the tools to “Know and Protect the Source.”

“I am greatly honored to be given this award,” Toby said, “It is humbling to be recognized for something you feel so passionate about. I have had the great opportunity to work with so many great educators at all of the events and projects that I have been invited to participate in.”

Education is the key component to environmental stewardship and protecting our drinking water sources. Toby has several new demonstrations, display and interactive talks planned for 2016 to spread his message to “Know and Protect the Source.” Check out the Alliance’s event calendar to see where Toby will be speaking next or contact Alliance to request Toby to develop a presentation or project specific to your community. ★



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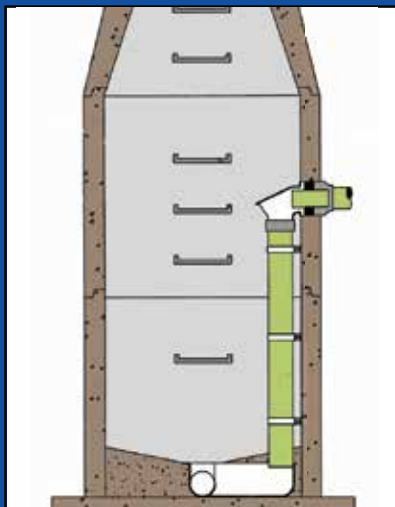
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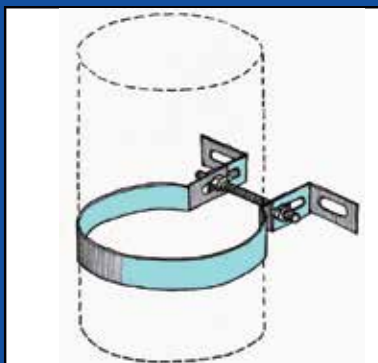
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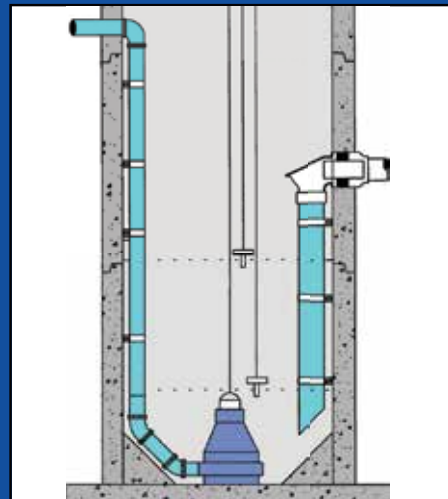


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11th Annual Alliance Scholarship Clay Shoot & Golf Outing

Thursday, August 11th, 2016

Kingen Gun Club

5112 W. 500 N

McCordsville, IN 46055

Winding Ridge Golf Course

5450 Bogey Drive

Indianapolis, IN 46235

(Located just off East 56th Street)

Registration: 8:00am
(Coffee & donuts)

Registration: 10:00am

Start Time: 8:30am -10:30 am

Lunch: 11:00am

Cost: \$30 / person

Tee Time: 12:00pm (Shot gun start)

Format: Scramble, Teams of four

(Includes lunch at the golf course)

Cost: \$85-Individual / \$300-Foursome

*Winners will be announced during
lunch at the golf course*

Dress Code: Collared Shirt, Soft spikes

All proceeds benefit the Alliance of Indiana Rural Water's Scholarship fund.

Meet the 2016 Scholarship Winners



Katlyn Bottomley
Daughter of Mike Bottomley
Connersville Utilities



Oakleigh Collier
Step Daughter of Scott
Manley
Martinsville Water Utility



Seth Graber,
Son of Barb Graber
Loogootee Utilities



Rick Perry
Son of Tonya Perry
Town of Lizton



Send Registration to - Email: alliance@inh2o.org or **Fax:** 317-736-6676
or **Mail:** P.O. Box 789, Franklin, IN 46131

Please return registration forms to the Alliance office no later than August 4, 2016.

Refunds after July 28, 2016 will be subject to \$15 administrative fee.

(Questions - call toll free 888-937-4992, or email: alliance@inh2o.org)

11th Annual Alliance Scholarship Clay Shoot & Golf Outing

Registration Form

Company _____ Phone _____ Email _____

Address _____ City _____ State _____ Zip _____

GOLF

Name _____

- ☐ Place me with a team Individual: \$85
☐ List Team Members: Foursome: \$300

Name _____

Name _____

Name _____

CLAY SHOOT

\$30 / Person
(includes lunch at the golf course)

Name _____

Name _____

Name _____

Name _____

**All proceeds benefit the Alliance of Indiana
Rural Water's Scholarship fund.**

Sponsorships (must be secured by August 1st, to receive signage.)

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Do Your Part, Be S

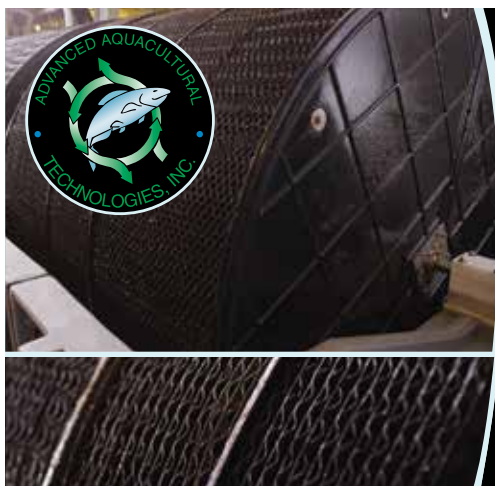
As many of you know, when I first began working for the Alliance in 1997, I assisted many communities with their Phase I Wellhead Protection Plans. What most of you may not know is that, previous to that, I oversaw the septic and well permitting and inspections at the Marion County Health Department (MCHD, Health and Hospital Corporation). What do these have in common, you may ask? Well, in the course of developing Wellhead Protection (WHP) Plans, a large number of onsite sewage disposal systems (septics) are generally listed as potential sources of contamination. You may also tell yourself, 'Marion County (Indianapolis) can't have that many septic systems.' But you would be wrong. Currently, MCHD has identified over 400 neighborhoods in the county – many in densely populated areas – that are still on septic systems and in great need of sanitary sewers.

Having said all of this, it is a known fact that all around Indiana, and around the country, septic system



failures can and are a significant source of pollution. Runoff to streams and lakes, improperly designed systems,

lack of proper maintenance and the 'out of sight-out of mind' mentality are what makes these a big threat to our waters.



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Septic Smart

So that brings us to the other 91 counties in Indiana. Local health departments generally have few resources for educating property owners and residents on the proper maintenance of septic systems. While many counties have permitting processes in place for replacing or installing a new septic system, very few have finances to follow-up with these to ensure they are properly maintained.

In Indiana, the recommendation for pumping a septic tank is every 3 to 5 years due to the types of soils in which these absorption fields are placed. Many systems were constructed prior to regulations and relied on connections to field tiles discharging to streams and lakes. Some homeowners have 'fixed' their failing septs by doing the same.

Since returning to the Alliance 2 years ago, I have most recently been working with local health departments to help them help you in protecting our waters, and to discern areas that desperately need access to sanitary sewers, whether it is an existing sewer system or guidance on developing regional sewer districts. In addition to individual onsite septic systems, there are known 'de-centralized' septic systems also known as community or cluster systems around the state that cannot bring their failing systems up to code. What our Director, Connie Stevens, and I have been doing is meeting with local health officials, cities and towns to discuss what our rural wastewater systems and/or members can do to help these areas. It is not an easy 'sell' to those whom prefer to remain independently reliant on their onsite systems. However, think of this as you would think of

"In Indiana, the recommendation for pumping a septic tank is every 3 to 5 years due to the types of soils in which these absorption fields are placed."

your aging infrastructure. Except that if these homes are on small lots and have their own private wells, there generally is no room for a properly designed septic system.

So, if nothing else, the Alliance greatly hopes that you, our members, can assist with educating your surrounding communities and help your local health departments with their continued efforts to help protect your drinking water, whether you obtain it from a water treatment system or have your own private well.

There are many ways in which to do this. Please get involved in local fairs and festivals to provide information to the general public. Invite your local health department to such events. If you can, offer to assist with printed materials. There are many materials available and with EPA's SepticSmart initiative, brochures, door hangers and other educational materials are available. As a matter of fact, the Alliance has several of these available thanks to an EPA grant specific to septic systems. There is currently a limited supply but feel free to contact our office at 888-937-4992 or Sherri Winters directly at 317-408-4284. Also feel free to have your health department contact us! After starting our initiative, we are currently working with Clark County Health Department on some promising projects and are glad to see them (and others) as partners with the same goals:

to protect our waterways and public health overall.

EPA SepticSmart toolkit website:
<https://www.epa.gov/septic/septic-systems-outreach-toolkit>

Check it out! Educate your community and yourself in the process! ★



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Chlorine Gas Disinfection:

Total Containment and RMP Studies

By Eric Laurin, P.E., Coe & Van Loo Consultants, Inc.

Plant managers across the country are faced with complex safety requirements in the operation of a water treatment plant. Heightened US Environmental Protection Agency (USEPA) requirements are expected when chlorine gas is used as a disinfectant because chlorine is designated as an Extremely Hazardous Substance (EHS) as defined in *40 CFR Part 355*. Certain emergency planning activities known as Risk Management Studies (RMP) are also required by Federal and many State agencies when chlorine is stored above a certain threshold quantity (TQ). Additionally, the method of storing chlorine will influence the scope and extent of the emergency plan preparation that is required by the RMP regulations. This article discusses the impact of total containment on the preparation of Federal RMP Studies. It is recommended that State and local regulations be reviewed when preparing emergency plan preparations for additional requirements.

The water treatment industry uses two techniques for the control of chlorine leaks. These are scrubbing or containment.

- Scrubbing is a treatment system that neutralizes the accidental release of chlorine gas by drawing contaminated air through a chemical absorption system. The treated air is discharged to the atmosphere.
- Containment systems employ a self-contained vessel within which the chlorine gas cylinder is housed. Accidental leaks of chlorine are kept within the containment vessel, an ASME-rated pressure tank, for recycling to the injection system at a normal flow rate. No atmospheric venting is



El Paso, Texas

generated because the leaked gas is kept within the containment vessel. TGO Technologies, Inc., of Santa Rosa, California, has developed self-containment vessels for both 150-pound and 1-ton cylinders that perform this function and keep our communities safe. (See photo). Both scrubbing and containment technologies for chlorine gas are subject to the requirement of an RMP, as stipulated in *Section 112 (r)* of the *Clean Air Act* and *Article 80* of the *Uniform Fire Code*. In *Section 112 (r)*, the USEPA developed a list of 77 toxic and 63 flammable substances for which TQs were established. The TQ for chlorine is 2,500 pounds.¹ Facilities storing chlorine gas in quantities that

equal, or exceed 2,500 pounds are required by statute to prepare an RMP in accordance with *40 CFR Part 68, Subpart G*.

It is important for plant managers to accurately inventory the quantities of stored chlorine gas cylinders at the plant site. Stored quantities of less than 2,500 pounds do not trigger the preparation of a Federal RMP, an activity that requires significant administrative time and effort which diverts scarce resources from plant operation and system monitoring.

A further consideration when determining whether a facility must prepare an RMP is the method used to control chlorine leaks. A self-contained, total containment vessel of the type available from TGO Technologies, as described above, is considered a

separate process if not manifolded or interconnected to other vessels. That is, a single, unconnected 1-ton cylinder housed in a total containment vessel would be below the exempt TQ of 2,500 pounds and an RMP would not be required. Up to 16 of the 150-pound gas cylinders may be interconnected and not meet the TQ of 2,500 pounds (i.e. $150 \times 16 = 2,400$ pounds). However, the manifolding of a 17th 150-pound cylinder triggers the requirement for a Federal RMP. It is recommended that treatment facilities review their gas chlorine system storage and delivery designs to determine if these designs can be modified to separate, currently connected 1-ton cylinders, resulting in a stored quantity of 2,000 pounds, a quantity below the threshold 2,500-pound TQ amount, and thereby avoid the preparation of an RMP.

We have been discussing the specific TQ amounts that trigger the preparation of a Federal RMP as presented in *Section 112 (r)* of the *Clean Air Act*. The use and storage of gaseous chlorine triggers other safety and reporting requirements as mandated by the *Emergency Planning and Community Right to Know Act (EPCRA)*, the *Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)* and others such as OSHA's *Section 1910.119*² that must be prepared by the facility. We also note that State RMP TQs may be more stringent than the federal regulation identified in *Section 112 (r)*; for example, California's TQ for chlorine is only 100 pounds. It is strongly recommended that your state's TQ requirements for chlorine be checked when assessing the need to perform an RMP.

In conclusion, the TQ for conducting a Federal RMP Study for chlorine gas is 2,500 pounds. If a water treatment facility has multiple 1-ton chlorine cylinders, and each is enclosed within a total containment vessel designed to withstand any release of chlorine, and if they are not interconnected,

each is considered to be a separate process. This will allow the separate vessels, individually, to be below the exempt quantity of 2,500 pounds, and no RMP Study is required. It should be noted, however, that the use of containment vessels will keep our communities safe regardless of whether an RMP is required.

About the Author

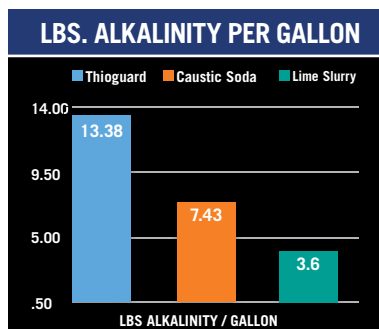
Eric Laurin, P.E. has almost 40 years of consulting engineering experience in designing water systems for private and municipal water providers in eight states and American Samoa. He is currently Director of Water Resources for CVL Consultants, Inc., a Phoenix, AZ based firm. ★

¹ From EPA 550-B-15-001, March 2015, List of Lists page 31.

² 29 CFR Ch. XVII (7-1-12 Edition). This regulation governs the preparation of a Process Safety Management Program (PSM). The storage of 1,500 lb or more of chlorine triggers a Federal PSM.

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How to Help Improve Your System's Income



By Joe Frazier, Water Circuit Rider

Since we are looking for more ways to cut back on unaccounted water loss, what better way to start than with your meters? When was the last time you had your master meters checked? That includes the meters on your wells. If it's been more than three years, how do you know they are reading correctly? A big part of your loss could be from meters reading incorrectly.

Another could be from improper registering of your customer meters. It's important for your water boards, town boards, and clerks to realize how critical it is to have a meter change-out program, because they act as your cash registers. Recommended time is a 10-year program. After a meter has been in service for 10 years, it's time to have it pulled and tested, if possible. Remember, that any meter that tests

over 3% fast or slow is considered a bad meter. That goes for your touch reads and your radio reads. Also, it's a good idea to check your radio reads and touch reads every so often to make sure they are matching the readings that are recorded. Meters have come a long way since some of us have gotten into the water field. Be sure to talk to your vendor about the recommended time to check the meters. ★

GIS Mapping and Utilities



By Adam B. Watts, GIS Coordinator, Alliance of Indiana Rural Water

The majority (80 to 90%) of a utility's data is somehow tied to a geographic location. Geographic information systems (GIS) are a powerful tool designed to take this spatial or geographical data and do things such as analyze, manage, manipulate, and store. The cost of this technology, and all technology for that matter, decreases over time. As few as 20 years ago, GIS technology was mainly utilized by government/state agencies and private companies who could afford the manpower and software costs. However, with technology development, even the most rural utilities can now afford to bring their customer base into the 21st century.

What are the benefits for Indiana's utilities of having a GIS? Cost savings from greater efficiency, better decision making, improved communication, and better record keeping, to name a few. The most difficult issue for all GIS

"GIS is now financially feasible and no longer just a 'someday dream.'"

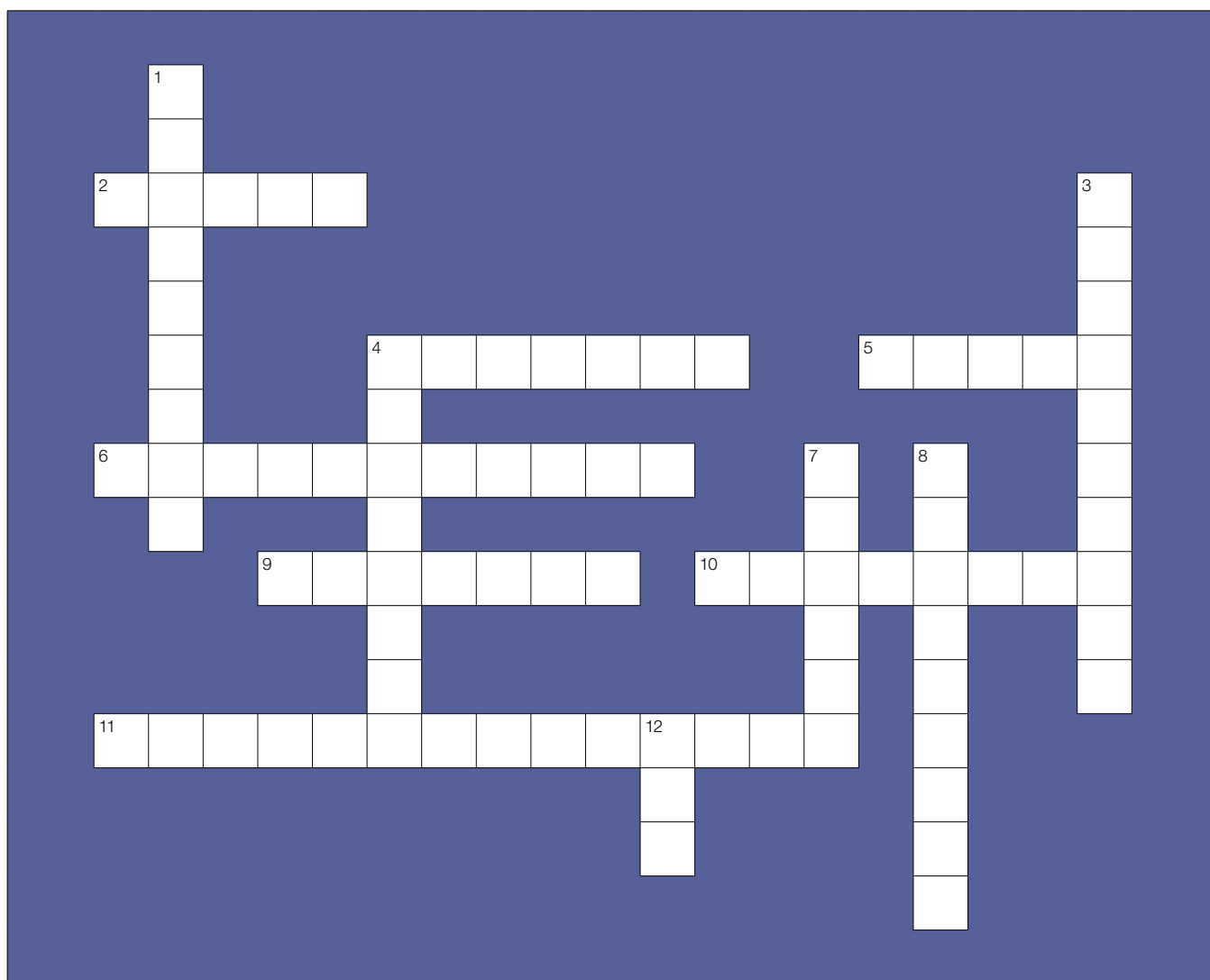
users worldwide is data collection. The 'legwork' of data collection is essential to having an accurate GIS. It is extremely important that accurate data is collected, so it is reciprocated on digital/paper maps. Diverting manpower to data can be crippling to the rural utility. However, after all a utility's data has been field verified, it becomes very manageable to maintain. After the initial data collection, only new assets need to be field verified.

The Alliance of Indiana Rural Water now has the equipment and knowledge base to help Indiana drinking water and wastewater utilities complete GIS field verification with

minimal cost and resources. To date, the Alliance has helped Delaware County Regional Wastewater District, Cloverdale Water Works, and Steuben Lakes Regional Wastewater District complete field verification for their respective utilities. Assets being verified include everything from clean-outs, hydrants, manholes, meters, and valves. At the utilities request, any visible point data can be mapped. GIS is now financially feasible and no longer just a 'someday dream.' If you are thinking about GIS at all, contact me for more information at 317-414-0696 (personal cellular) or 317-474-3808 (work cellular). ★

Value of Water

* Adapted from Comox Valley Regional District.



ACROSS

2. _____ in our water systems can result in large amounts of wasted water.
4. Drinking water every day is necessary to keep us _____.
5. Water flows to our taps through a system of water mains, storage tanks and _____.
6. The water trapped beneath the surface of the ground is called _____.
9. Access to clean, safe water is important for maintaining our _____ of life in Indiana.

10. Water that we _____ does not end up in wastewater treatment plants.
11. The system of water pipes below the ground is known as our water _____.

DOWN

1. The people who help deliver our water to our taps and who treat it after we've used it are called water and wastewater _____.
3. Taking water from the environment upsets the natural balance of our aquatic _____.
4. Water that firefighters use to put out fires often comes from _____.

7. Although it seems like there is an unlimited supply of it, water is a _____ resource.
8. Wastewater must undergo _____ before it can be returned to the environment.
12. _____ water offers fire protection, supports the economy, and is safe to drink.

ACROSS
 2. LEAKS 4. HEALTHY 5. PUMPS 6. GROUNDWATER
 9. QUALITY 10. CONSERVE 11. INFRASTRUCTURE

DOWN
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 7. FINITE 8. TREATMENT 12. TAP

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Scott Smith has asked me to put together a few words as to what the Alliance of Rural Water has done for the Town of Geneva. I am relatively new in my position with the Town of Geneva. I am finishing out Bill Warren's term as the Clerk Treasurer, and have been here since May.

Rex has been a great teacher and mentor for Scott, who has gone through his classes to get prepared to be certified both Water and Wastewater operator. I feel that Rex was more than just a teacher for Scott. He mentored, encouraged and developed him to where he is today. I know that Scott has the utmost respect for Rex.

Both Joe in Water and Kevin in Wastewater have also been an asset to the Town of Geneva, as they have given Scott assistance in trouble shooting issues as they arrive, as well as assisting Scott in developing process and procedures.

Jane Kaverman, Clerk-Treasurer, Town of Geneva

I am writing to thank your organization on behalf of Indian Dunes State Park for leak locating services rendered at our property in July of 2015. The technician who visited our property was diligent, professional and extremely dedicated to his task. In fact, he spent a second day on the locating after a full first day, and managed to track our leak to an abandoned line in the property. We estimate that your services saved our property around \$10,000 in operations funding and also kept us from wasting millions of gallons of clean water. Our staff also takes full advantage of the educational programs that your organization puts on and places high value on the reference you provide in all matters of water and wastewater. We appreciate the services you provide very much and look forward to working together in the future.

*Michael Rea, Assistant Property Manager,
Indiana Dunes State Park*

I became the Superintendent of the Churubusco Wastewater Treatment Plant a couple of years ago, after 18 years as the maintenance/operations worker. I never wanted to become superintendent until the town made me an offer I couldn't refuse.

Soon after I became superintendent, I had many questions about the running of a sewage plant. Many of these questions were answered by Kevin Wenzel of the Alliance of Indiana Rural Water. Mr. Wenzel would stop by and help me. If he didn't know the answer, he would find it and get back to me. He would also make connections between me and other superintendents so that we could compare plants.

Mr. Wenzel has helped me with QC in my lab, setting up the Net-DMR, pretreatment programs, and researching cheaper options of removing sludge. Sometimes, he stops by and we just talk about the wastewater industry and compare ideas. He always keeps me up to date on the Alliance's upcoming training.

In conclusion, I once again want to thank the Alliance of Indiana Rural Water for all the help they have given me since I have become superintendent. Mr. Wenzel, their trainings, conferences and expos have helped me tremendously. Thank you.

Bob Gray, Churubusco WWTP

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2. Thistlethwaite Falls
3. Portland Mills Covered Bridge
4. Bonneyville Mills dam gate on the Little Elkhart River.
5. Goshen Pond

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