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JUNE 2022 - SPECIAL EDITION

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An Introduction for this “Special Edition”

Kevin Bauman, NvRWA Executive Director

Hello Readers,

It has been an orientation time for me over the past few months. There have been many changes at your Nevada Rural Water Association from staffing to policy and procedures.

In the recent changes we were working to improve and be a better experience for you. We put on your first LIVE NvRWA conference in three years and made some staffing changes too! In this time there have been challenges too. This included completing some financial auditing and corrections, a change in the staffing from having our Source Water Protection Specialists resign the last working day before the conference and hiring three people. It has been a fun and busy time. Also, it was at that time I wrote out three articles. These occurred just before the conference, right after, and then in the first half of the month of May. With all the other things going on, we did not get the rest of the staff to put out all the articles needed to publish another edition of the magazine. I wanted to introduce this to you, so you would know to complete all the articles / stories before you respond. Also, in the middle of this one of the new circuit riders did not work out. We had a couple of appointment issues, and this inspired me to write an introduction then send it out to all of our contacts. I wanted to include a copy of that email introduction in this special edition to ensure the message is out, and it is clear that WE want to be a positive part of your work experience. I am responsible to make sure we do this right. Then I have the articles about the time AFTER the conference in which are new goals are shared to BUILD the conference experience. Finally, in our effort to rebuild a very positive reputation with you all we are working to change

our interactions with you. So the final article / story addresses our focus moving forward. Hopefully NvRWA will be a very useful gateway to products and services to help you effectively do your work. As part of this plan, I am calling on my experiences with damage control and networking to help provide opportunities for to build interagency networking and introduce our formerly quite industry to the other people of Nevada who rely on your good work to keep life very civilized. Please enjoy this Special Edition (see that?) of your magazine. Please let me know if there are any issues you want addressed better, as we move forward. I hope that the field staff of NvRWA are considered your strong partners and you will convey your message through them. If that is a problem, please, do not ever hesitate to contact me directly. I am considering myself as their backup. They are the face of this company and together we are working to be the ones you want to see when you have questions or need any help! Since 2004, I live by the motto, “my work is funded through the government, and I AM here to help!” It may sound funny, but I do want to provide the support and positive encounter you deserve.

Please be on the lookout for more regular magazines moving forward. It is my goal to go by monthly starting June until the end of the year to catch up with the promised number of editions. (Yet, another, short coming, recently... Now, it's time to shift gears as we complete the restart and get back up to speed!)

Looking forward to being a great partner for your work experience, Thank you for this second chance!

Message from the Executive Director

Kevin Baughman, NvRWA Executive Director

It looks like the Yellow Flag is coming down and the race is on again! As I write this the conference is looking like it is a full go. For the first time in three years, we are going to be LIVE and in LIVING COLOR!!! (Oops my history is showing!) As I am completing 40 years of public and water service, the industry is yet again offering me a new start at an additional level of responsibility. I appreciate the position to serve in this capacity, Thank you all for your support!

I hope each of you take the time to reflect on the last few years. There have been challenges for sure. Stay at home orders, shortages of supplies, fear of tiny bugs, just to name a few. From the beginning, we heard the advice, “WASH YOUR HANDS!”. It seems hard to do and pointless without clean safe water and wastewater services to do this with. So let me repeat a quick THANK YOU! The utility workers (water, wastewater, and power workers too) are truly heroes in my mind, and I hope you all will agree. As I say often these are the people that have kept us civilized over the last few years, please be sure to take a moment and thank a utility worker near you for their community service!

In the opening paragraph of this article, I mention a “restart” of a race. In this industry the word is out. Congress is in the final stages of passing down about \$60 BILLION to the states for an unprecedented opportunity to update our water / wastewater infrastructures. We all need to be asking for this. Right now, I urge you to contact your circuit riders and get our name on the lists for your dream projects! This IS the chance of a lifetime that we all long for. The funding is starting now. There are some impressive amounts of money that the funders must start pushing out or we all lose the opportunity to get these system upgrades.

To go with the theme of restarting it is time for a shameless plug. WE ARE HAVING A LIVE CONFERENCE!!! It has been three years since this last happened. We now are counting down as I write this and two weeks from today, we will be in the middle of it. At this point it looks like it is going to be a strong restart, we have 35 vendors and about 250 registered to attend. We are taking people attending up to the last day of the event. This is great that we are going to have this networking and learning experience. The new plan is that we are wanting to build on this moving forward. New people are to be invited to build the vendor show, fun raffles are being sought to really make for exciting and valuable giveaways (you will be required to be present to win, and who wouldn't want to be?). We are seeking new ways to bring additional value to the vendor interactions. Starting this year, we want to really make this some of the best experiences you have had.

Suddenly, it is becoming spring, with longer days. Along with long hours of sun we are having warmer temperatures. This brings many things like good fishing (you see me REEL then in at my favorite fishing hole, SAFEWAY...), outdoor projects and hikes, camping, cycling and other

opportunities. Well, all sorts of fun stuff. I also want to remind everyone to be careful. Spiders, snakes, bees, and all sorts are creepy crawly things are coming back out. Just remember, they're everywhere! BEE CAREFUL PLEASE!!!

Lastly for this article, we are working on an outreach / workforce development program. I really hope that you find this very exciting! Do you find that people do not understand what you do to support our industry(s)? People who know me in person know that I have had conversations with people who I assumed were educated adults who should have a clue about how their community infrastructure works. These people told me their thought their water comes from a hydrant. The get their water by the city coming by and filling them up with a truck, AT NIGHT! I ask, who can we get support from, to pay a living wage, if people do not know this story? How can we ask people to place any value on their water service? The process to get improvements is likely to take years just to get design and approval. Once the construction begins big equipment becomes the order of the day. Will it be a challenge to find people to “construct” our system upgrades? Isn't the economy doing well now? Labor is easy to find, right? Finally, once the system is upgraded, are there operators who will care and feed your system the operations and maintenance it needs and deserves? With the time and costs involved to do these upgrades I hope you all will agree that we need fine people to do this very important task. I hope that you and your community or reservation will take the time to use outsiders (technical assistance specialists) to help give you that regular “fresh look” at your Operations and Maintenance practices. These circuit rider people should prove to be the TMF (Technical, Managerial, and Financial) capacity builders to help you achieve the reliability and sustainability you want for your company. It is also a goal of mine to improve people's understanding of our industry and therefore their sense of value for our service and products through this work.

As a former circuit rider, myself, it is my hope that you will come to learn that this can be a very good practice to have a “planned interruption from routine operations” with your Technical Assistance Specialists (TAS). People I worked with in my past have told me that they really appreciate having some fresh eyes around on a regular basis. It helps keep everyone looking with a more critical eye for “issues”. It really is a situation which relies on relationship building, resource sharing, and networking. It is my hope that as you work with these programs and people as a part of your “routine” operations you will find it helpful. Please do not hesitate to contact me to let me know anything you feel is positive or negative about these times you invest with us.

Enjoy this “restart”. See you at the conference!

Max's Wastewater Corner:

Max Sosa, NvRWA Wastewater Technician

1) What is the term used to describe disease causing viruses or bacteria?

- a. Endogenic
- b. Cryogenic
- c. Pathogenic
- d. Pyrogenic

2) What is the weight relationship of chlorine liquid as compared to water?

- a. Water weighs more than chlorine
- b. Liquid chlorine weighs 1.5 times more than water
- c. Water weighs 2.5 times more than liquid chlorine
- d. Water and liquid chlorine weigh the same

3) What is the flow rate in cubic feet per second (cfs) of a 2.25 MGD channel of water ?

- a. 1.55 cfs
- b. 8.34 cfs
- c. 7.48 cfs
- d. 3.48 cfs

4) Which repair kit is designed for use with a 150 lbs cylinder?

- a. C kit
- b. SCBA kit
- c. A kit
- d. B kit

5) What will the pressure gauge read on the suction of a pump if the pump is located at 0 elevation and the tank has 25 ft of static level?

- a. About 58 psi
- b. About 9.5 psi
- c. About 11 psi
- d. About 158 psi

See page 14 for answers

After the Conference

Kevin Bauman, NvRWA Executive Director

Well, it was an exciting time. The first live conference we have hosted in three years is behind us now. It was good to start the return to "normal" life again! THANK YOU for your participation!

It really is the best situation to get your feedback and input for the past and future events. If we do not hear of any issues, there is no motivation to change / make things more enjoyable. In this case we are putting together a show to help address YOUR needs. Without hearing what you want we can only guess at what conference activities and features will best service your needs.

At this point I am wondering how was the conference for you? Did you not get to go? Why not? How can we do better for you? Why not make it a larger event? I know there was a lot of question about the status of the covid and possible group restrictions. It is understandable that this may have been a major influence or impact to get approval or even to have the desire. I hope that we are well into recovery now and far beyond any additional quarantine / group gathering restrictions moving forward. If you just weren't enthused because it was the first live conference in three years, sorry you missed us. By the reports I received the experience was decently smooth and people enjoyed the networking.

It was a decent turnout with over 40 vendors and over 250 attendees. Not too bad. I was happy to see this turnout given the fact that just two months earlier the covid counts were the highest in history. Glad it turned out that the cases with that variant these were milder and more resulted in much less hospital time and use. Enough said about the bug, what about the conference? Well, I have a few thoughts...

First things first, I think that Bob Foerster and Jaemi Henriksen pulled off a miracle of a task of organizing, planning, and coordinating the setup of the whole event! BRAVO ZULU and a big KUDOS to these two critical people! They were the heart of the event! When I started on February 01, 2022, they had the conference planning and orchestration very well underway!!! It was amazing and I for one truly appreciate that monumental and heroic effort! At show time, I got to come in and run around acting like I knew what I was doing and just say yes, let's make it happen! Thank you, guys! GREAT SETUP WORK, it would not have happened without you two!!!!

We did have some questions or feedback showing we can improve. The redwood rooms were too small for the number of people who wanted to attend classes there, frequently. The rooms were too hot/cold. Another question is that we didn't have a line of certification review workshops.



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Well, these rooms are designed with only some many people in the space. The Sierra Rooms should have better climate control. Our NvRWA staff are adding certification review tracts for Drinking Water Treatment, Distribution, Wastewater Collections and Treatment. Our staff are going to coordinate these tracts and invite various speakers/trainers to attend the next conference.

I have already let the cat out of the bag, (why did someone put a cat in a bag???) and mentioned that we are making changes moving forward. Here is some change points.

1. We are going to allow earlier registration
 - a. Three tiers.
 - i. Early Bird Registration - June 01 to Aug 31 - Last year's prices
 - ii. Regular Registration - Sept 01 to Jan 31 - Last year + 15%
 - iii. Late Registration - February 01 to last day of conference - Regular + 15%
2. Earlier call for papers
 - a. June 01 to October 31
3. More vendors / shorter vendor time / possible checklist to earn CEUs for education / sales pitches from vendors.
4. More class tracts
5. Better Menu options (you will be asked to preselect these)
 - a. Morning coffee or tea, pastries?
 - b. Sandwiches for lunch Tuesdays and Wednesday, your choice?
 - c. Nice Lunch Thursday
 - d. Gluten free? Vegan needs for any meals?
 - e. Afternoon Iced tea / lemonade? Chips and snacks?
6. A round table to be included in the O&M tract
7. An office admin tract.
8. Better games and activities.

We have the Nugget reserved for the next two years. We are seeking to put on a biggest show so time will tell what happens next. It is my goal that we can have an event most worthy of your time. New connections are being used to build this to be a bigger than ever event. We are looking into the possibilities of volunteers getting some discount or possibly free days to the conference. The plan would be to make it VERY WELL WORTH your time if you agree to spend a morning or afternoon monitoring the sign in sheets. As a room monitor you will have the full opportunity to gain your contact hours, while getting to know the speakers, and our crew too. Any takers???? We are looking to make this a very smooth event internally and even add some possible activities for the people who come to stay while we conference.

In this trade show and conference, it is my intention to request the state allow a program in which vendor interactions with the attendees will receive continuing education credit for talking to the vendors, learning about their new products or services, and documenting the event with a check sheet. Currently, I find there are only a few states that acknowledge the value of this activity. They are based on time allowed for the interactions. I feel this is not good enough to warrant contact hours. But if people must document their learning, that, to me, is a very different story. I may have a few webinars for the attendees and the vendors if I can talk the state into accepting the concept and giving the whole thing at least a trial run. Do you agree that the learning of the new tools, products, and services are a valuable part of the conference experience? I really would like to hear from EACH of you, your thoughts about how to make this a crazy good (or as my friends from Boston would say, "wicked good!") time and a helpful experience for all.

Even the games can encourage year-round learning when studying for the ability to answer game questions quickly and accurately. To me, we can have fun and showcase our learning / level of knowledge. It is time to dive into this with gusto in my mind. It is my hope that you might take some pride in having a plaque in YOUR shop that declares you the best in the state!

Moving forward we are seeking to ask the vendors and community leaders to give B-I-G! We want to bring attention and show the VALUE of the workers who make modern life civilized!!! You each do make a major impact in that you are a vital part of keeping modern life civilized! THANK YOU for your work! With some BIG prizes, let's get in the news, let's raise the level of awareness and appreciation for the AMAZING accomplishments you all achieve! Can we get a BIG SUV (or even more valuable due to fuel prices these days, a little bitty gas miser car?) Let's get our communities to realize what a treasure they have with their utility workers!


Lastly, I want to bring you a true renewed effort to educate and remind you that the work you do does have some hazards to be aware of. One big thought I am having and, as of the writing of this article, I have seen one news story about the condition of the power grid! Electric power reliability is possibly changing. With the planned power outages for stormy conditions, the addition of many (Millions?) electric cars and the subsequent removal of gas stations moving forward, the power picture has got to change. It is time to bring in the power company and learn of what they anticipate, plus how can our industries partner better moving forward?

I think the conference is an important opportunity and a real avenue to have some real moments of awareness of the risks we expose ourselves in doing our work. As a former nuclear/ radiation worker, I learned the phrase that "While we work in a hazardous environment, EVERYTHING we do involves some risks. These risks are minimized by being aware of them and taking all appropriate steps to minimize the exposure of them.) I for one support that we are regularly reminded that we go to work for many reasons. The best results at the end of the day are that our efforts are successful, we go home alive and well.

Overall, I really hope to heighten the level of education, the networking, and attention to our industry through the use of the future conferences. I hope you can and will be a part of this vision too!

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Introduction and Special Communication Request

Kevin Bauman, NvRWA Executive Director

It has been an exciting transition for me. Starting February 01, 2022, and now, I must say where did that time go? To give you an introduction My wife and I left "retirement" living in Maui to join this company at the end of January. Like the good, normal, sane people we are we left the warm tropics to enjoy a little winter weather back on the mainland. I had stopped working as a long-time circuit rider (16.75 years of service) the previous March and, luckily, got called back in!

At this point I am very happy to be reconnected with the water and wastewater people. Thank you for having me back! I wished to share that I am enthused about the work and this fun opportunity to support the industry. Please let me share my thoughts about this for a moment.

As I started on my first five-year circuit rider contract, I was thinking that I would work myself out of a job in short order. The year was 2004 and the "grandfathered" distribution licensing requirements were about to expire. I thought I would do some teaching, help people get licensed and work myself out of a job, the end. Years later, I can to the conclusion that I was wwwwrong (yep, still hard to admit that!). It appears the work was better thought of a planned interruption from the "routine". I have grown proud of my role, been inspired by my "clients" achievements, and became determined to be a positive impact on the industry!

In the spirit of sharing, I started as guy from Oklahoma, who joined the Navy to see the sea. I became an enlisted electrician by signing up for delayed entry at the old age of 16. 10 years later, I figured I needed to make a change. Upon my honorable discharge, I entered the Drinking Water Industry. I got to spend time chasing wires, washing test tubes, operating various treatment plants, and just having good fun in the industry since 1981. I have spent my working life on call. It has been good for me, and I am very grateful for being able to work my way up to being the "new guy" as the Executive Director at the Nevada Rural Water Association. The point of this conversation, is that I am used to being on call while in my public service work, and I would like to let you know that this is what I feel I owe to you as well. I would appreciate hearing from you on how we are doing for you. NvRWA has had a couple of rough years recently. Currently, we are working making improvements for you. I think NvRWA is a great concept and that we can do a very needed service for our state, and its residents. You may have read my first magazine article or heard me speak, at our recent conference, about the fact that I think all our utility workers are HEROES! I believe that our Association's role and function is to help and encourage these utility operators to learn and do the right thing. It is my goal that our staff will be courteous, respectful of you and your time, helpful, prepared, and honest. It is my standard that we apply this to each, and every system or community contact we have in doing our work. I request that you give me your feedback on how we are doing. If you have the time, I want to ask that you give me your feedback, directly, on how our field

staff are doing. I am on call for you. It is our goal to be of great, friendly, and knowledgeable service to you as you help to make life civilized for everyone!

I am very grateful for the opportunity to participate and influence our industry. It makes me proud that I am involved, learning, and growing my own participation of this industry success. Thank you for your time and attention to my request for your help with rebuilding developing a great work environment for all of us!

Please do call, text, or email with ANY complaints or compliments and at any time. I am used to a lifetime of being on call and it is my goal to make sure you are always happy working with NvRWA. So, when the need hits, please contact me. We are working to bring you the best help possible. This needs your input to get it right for you! The more we hear the better guided we can be. I look forward to hearing from you.



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What to do When the Doorbell Rings!

Robert Ferrell

At one point or another during your time in the water/wastewater industry, you'll get a visit from an agency representative. The agency could be a regulatory agency, a lending institution, or a permitting body. What do you do in these scenarios? What if you make first contact? What if someone from your office contacts you because of an agency agent has stopped in for a surprise inspection? Often, there is not a documented procedure on what steps you should follow or even whom to contact if a representative/regulator does visit your system. Let's look into a few situations you may find yourself in, in the future. Or even for some, an opportunity to look back at past encounters.

Now, visits from agency representative are a normal part of everyday business and typically there are two types, announced and unannounced visits. There are similar steps you can follow for both types of encounters to ensure a more productive and successful outcome.

By its definition, an announced visit should be scheduled and well-orchestrated. Typically, with an announced visit the representative will contact you and schedule a meeting with a particular time, place, and agenda. Just remember to be flexible and allow yourself enough time to complete the site visits, barring any emergencies, in a timely fashion. This will help you to reduce the overall stress level of the encounter. Although, if you don't have the proper documentation, plans and procedures in place an announced visit can become extremely stressful. That is why it is recommended that you review the agenda and provide feedback if you have questions and need clarification of any requirements or documentation.

An unscheduled visit is just that, e.g., an agent of a regulatory entity may stop by any part of your system that falls under their regulatory purview unannounced and require you to show regulated documentation and provide a physical site tour/inspection. For some documentation requirements, you will be given a "reasonable" amount of time to produce required documents. But as you might imagine or may have experienced, the "reasonable" amount of time could be 24 to 72 hours. That time goes by very quickly and can be extremely hectic if you are searching three or four locations over tens of miles to gather documents. To reduce the impact of an unannounced visit, it is highly important to properly complete and maintain your required documentation, ensuring that it's up to date and in a location that everyone that's involved with your system knows about.

Regardless the type of site visit, type of agency or the number of representatives, some helpful guidance is as follows.

1. Document and distribute a procedure to everyone from the clerk at the billing office to the D-4 in the control room, describing your "Agency Site Visit" process
2. Upon the representative's arrival, ask for credentials, especially if it's a government agency, regardless if it's announced or unannounced and verify if you have doubt
3. Activate your phone tree list from the Agency Site Visit procedure.
4. Provide introduction to staff, Operators, managers etc., and any site-specific orientation and PPE requirements that may be needed for any part of the visit
5. If available, provide a workspace for general discussion and document review. Clean, Quiet and Private if possible. (Conference room, office, table and chair)
6. If it's an announced visit, gather and place the required documents in an area where they can be reviewed, ahead of time.

If it's an unannounced visit ask for what documents may be required and what timeline you must provide them in. In both cases, document what you provide, create a table of contents

7. Only provide the requested information, no more, no less
8. During the physical site inspection, take photos of whatever the agent photographs and ensure the agent is accompanied at all times
9. At the conclusion, ensure to schedule a closing meeting with the agent and all parties involved. Ensure all contact information, documents, photos, and other items are recorded and distributed as required by your documented "Agency Site Visit" plan
10. Follow up. The Visit is not yet over, you must ensure to continue to pursue resolution to any of the items that were discussed. In some instances, Notice of Violations (NOVs) can be issued for non-compliances. That is entirely different article. In any case, follow up

Having a documented plan on how to address agency site visits can greatly assist in turning seemingly large headaches, into minor inconveniences. The procedure only needs to be a page or two, outline your steps, include contact information in a phone tree, and include any documents that you may need to complete per your organization's requirements. You and your team will be thankful down the road. Be safe and have fun out there.



Special Addition Part Three:

Kevin Bauman, NvRWA Executive Director

Well, we finally brought you your first live NvRWA conference in three years. It was a good time, right? Now we are dealing with the rest of the year. What would you like to see from your Rural Water Association moving forward? First of all, I want to say again, thank you Bob Foerster for setting a great foundation. Your association has a long history of providing a great technical assistance service to the water and wastewater operations in Nevada! THANK YOU, Bob for all you have done for us!!!

Where are we going from here? What can you expect from your association? I hope the following ideas are exciting and welcome to you. It is my goal that you seek us out to help you with any unusual operations and activities you come across. If you can think of us as your backup / support team, THEN we might be doing our job in providing you your assistance and support.

To begin with I have sent out an introductory letter recently to let you know, I really want to be your point of contact about our performance. I am raising the level or responsibility for each of our staff. Going forward, they are going to have much more involvement with our conference. I feel that with a bigger conference we can bring you better service and more activities such as localized networking events, year round. Your membership in the NvRWA will be looked at with more respect as we are going to be working to be your link between your current service to your community and a new level as we work to raise the level or awareness of this industry and your work across the state and hopefully the country!

You have heard me say that in the recent pandemic response, the mantra was to wash your hands frequently and at least for a period of 20 seconds or more, right? All of us in the industry (remember, I am referring to this as the combined efforts of the Drinking AND Clean Water sides...) understand that this is simply magic. That water just appears at a faucet and then disappears in the drain, no further thoughts needed, right??? Those of you who know me, know the story, I have had grown, and supposedly educated, adults tell me they think that their water comes from fire hydrants and the city keeps the water supply going by refilling these at night with a water truck. (true story)

My goal is that at NvRWA, we are going to be instrumental in helping to raise the level of awareness of what you all do to bring clean, safe drinking water to people's faucets and then collect, then remove, collect, and treat, the wastewater to ensure it is safely reclaimed and eliminated.

Hopefully, you will find that we are a source of help in situations of new rules or regulations being applied. We can and will help in the time of unusual evolutions you need to participate in. We are a source of additional help in time of special need. An organization that brings you networking opportunities like never before, and our traditional services are focused, reliable, and a productive use of your time.

How can we do this you might ask? What are the plans to optimize our service to you? How can we improve our service to you? Well it seems that a three point approach is developing to be a better experience for you. I mentioned in the "After the Conference" story that it is a goal that we bring the conference up to a "Big Water Conference of the North"

status. More tracts, more vendors, and more activities are the plan of the day. Secondly, it seems that we can facilitate more group meetings and networking sessions (more on this later in the article). Lastly, we want to make sure that you are very satisfied when we have any interactions with you. Some of this is not new but let me assure you that your satisfaction with our "help" is our priority.

In my recent introduction letter, I asked that you contact me at any time you feel the need to give us feedback on our services to you. I have been an operator, on call for just a few months short of forty years. I am proud to be of service to the public and want to make sure we are providing this reliable service to you with full respect due you and your schedule. It is my hope that you feel like we are a part of YOUR crew/program.

As for being a better liaison / link to outside services. Our Circuit Riders have the primary responsibility to provide you TMF capacity building assistance. This is still true. In my past circuit rider work I made it a point to spend at least a couple hours with each system whenever possible to complete meaningful work with that system. They are not out there to be a 15-minute sales pitch and then off to interrupt the next system.

Our Circuit Riders are supposed to be knowledgeable of programs and services we partner with to provide possibly beneficial services and support to you. They are here to provide you with a service that contributes significantly to your successes! If you have additional questions, by all means, please ask your technical assistance specialists about the programs as a start. Then please look at our website or contact our office. We are working to update the website and make it a useful tool to help with things like registering for classes. We are also providing an easy gateway to some new services. Here are a few that we are starting with initially:

1. **120 Water** – A contract service to help with the Mapping, development of a sampling plan, sample collection and testing, and finally, completing the required reporting to the owners of the sample sites and the regulators
2. **Servline** – A service to address the big water bills created by accidents downstream of the customer's meters. (a small monthly fee covers an unusual large bill that was created by an unexpected a break on the customer's service)
3. **GovCard** - Finally, we have a new way to collect payments online even if your water company does not have a website.

To go with the partnerships, let me mention some association activities.

1. A Significant Improvement / Update of Our Website
2. Regional Area Networking Sessions
3. Workforce Development / Outreach / Apprenticeship Program

These services listed above are partner services that we are bringing on. It is not my goal to push these on you, only facilitate your access if

NvRWA Restarted & is Moving Forward

you find they might be of a positive situation. Our national organization is affiliated with these and encourage our informing you about them.

Finally, for now, we are really working on programs to enlighten the people in our state about the opportunities to work in our industry. How many of you have found yourself working in your job and said to yourself, "I wish someone had told be about this earlier in my life!?" We now have a program to focus on outreach, workforce development, and an apprenticeship program. We intend to inform people about the opportunities and help them get started. We will be seeking help from the various agencies that can help facilitate the building of the workforce. Would you agree that by making people aware or the opportunities and requirements we will increase the value of our services, products, and time? Translation, we are working to help bring you more appreciation for your work and pay for doing it!

The apprenticeship program requires 4000 hours of OJT (yes, two years...) and with 288 hours of class time in that OJT. It sounds like a lot but, I ask you, doesn't an operator have an influence on entire communities? Haven't people died because of misconduct of water system operators? Electricians or plumbers have a standard of over 5000 hours of OJT to get to take a license. These professionals generally effect one dwelling or contact at a time. Do you agree that by incorporating programs such as this we can increase awareness and appreciation for our work?

The networking sessions are to encourage the neighboring community operators, and managers to get to know each other. The plan is to develop a schedule of regional networking events. In these events the goal is to have training for some Continuing Education credits, a round table experience, and possibly bring you a lunch to enjoy while getting to know or visit with your neighboring operators. I will say that this will be the opportunity to maybe have you contribute to introducing people to our industry. I want to make it possible to bring a guest of your choice, maybe a family member wants to know more about what you do? Maybe a friend needs an introduction to a decent, stable, and interesting career opportunity? Do you think this is a good idea? This idea came to me in my years as a circuit rider. I have realized that we get into our routine and do not normally take the time to get to know and relate to our neighbors. I have seen that the relations that come from this has made a significant positive impact in systems quickly restoring water services after a major cataclysmic event. I hope we will find this a valuable event.

It is my hope that you are truly excited by our refreshed presence and efforts to help you! Please, submit your input and thoughts as to what else we might do to improve your experience with the Nevada Rural Water Association. We hope that these efforts and this focus is going to result in an invigorated improved interaction and that you will be happy with the results. Thank you for your time, and, Buckle Up Butter Cups! Here we GO!!!



Max's Wastewater Corner: Answers

1) c

Pathogenic organisms are capable of causing disease in a host.

2) b

Liquid chlorine weighs 1.5 times more than water. Chlorine gas is 2.5 times heavier than air.

3) d

3.48 cfs or ft³ /sec

To solve look up the conversion factor:

1 million gallons (US) per day = 1.55 ft³ /sec per mgd x 2.25 mgd

1.55 ft³ /sec per mgd x 2.25 mgd = 3.48 cfs

4) c

A kit

There are three types of chlorine repair kits:

A is for 150 lbs cylinders

B is for 1 ton cylinders

C is for rail cars

SCBA (self-contained breathing apparatus) are the tanks typically worn by firefighters or rescue personnel.

5) c

About 11 psi.

To solve look up the conversion factor:

1 psi = 2.31 ft of head

$\frac{25 \text{ ft of head}}{2.31 \text{ ft per psi}} = 10.82 \text{ psi}$

Or

1 ft of water = 0.433 psi

$25 \text{ ft} \times \frac{0.433 \text{ psi}}{1 \text{ ft of water}} = 10.82 \text{ psi}$



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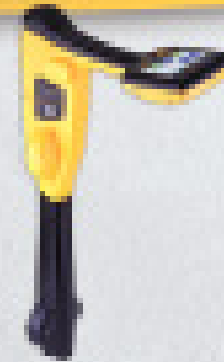
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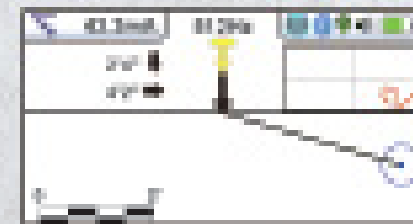
vLoc3-Pro Receiver

- Color-coded EM distortion warnings
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- Optional Bluetooth connectivity

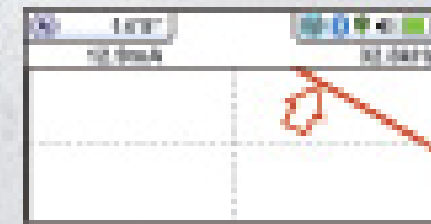


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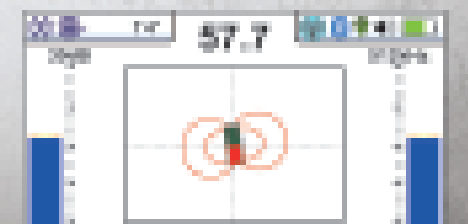
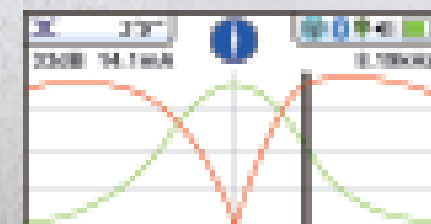


A Vector Locate - shows orientation, line position, and distance relative to the locator in 3D



C Plan View Screen - displays the theoretical line in 2D from above ground in omnidirectional mode

B Transverse Plot Screen - is used to display the peak and null to compare distortion shape



F Borehole Screen - arrow guidance showing direction to the locate and depth of cover



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