



OpenLine

The Newsletter For and About Utah's Water Supply Operators

Volume 18

Utah State Division of Drinking Water

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The Utah Division of Drinking Water's Operator Certification Program publishes the OpenLine newsletter annually. The articles center around water system operators and managers and backflow technicians. Articles submitted to the OpenLine do not necessarily reflect the views or opinions of the Drinking Water Board or the Operator Certification Commission. Please submit questions, comments, or articles to:

Division of Drinking Water
150 North 1950 West - PO Box 144830
Salt Lake City, Utah 84114-4830
Telephone (801) 536-4200
Fax 801-536-4211
Website <http://drinkingwater.utah.gov>

Contributing staff writers: Ken Bousfield, Kim Dyches, Kate Johnson, Michael Moss, Don Lore, Julie Cobleigh, Heather Bobb, Michael Mortensen, Margaret Hand, Carolyn Esser, Brad Holdaway, Patti Fauver, Mark Hansen, Mark Jensen, Nagendra Dev, Rachael Cassidy.

Greetings from the new Division director

By Kenneth H. Bousfield, Director
Division of Drinking Water

On February 8, 2007, Dianne Nielson, Executive Director of the Department of Environmental Quality, announced to Division staff that she had appointed me to serve in the position of Director for the Division of Drinking Water. With my appointment, there will be some changes within the Division that I would like to highlight in this article.

Let me say first of all, as a long time employee within the Division of Drinking Water, I firmly believe that the activities and programs housed within the Division are appropriate, well conceived and well managed. Consequently there will not be major shifts in the direction of the Division and for the most part the changes will not result in any major shifts in delivery of services.

I would however like to comment on some changes which I believe will help us improve our performance. I will be covering 1) Sanitary Surveys, 2) Source Protection Plans, 3) Capacity, 4) CROMMERR and the electronic age, and 5) Division reorganization.

SANITARY SURVEYS: There are two areas associated with sanitary surveys that I would like to see improved. The first area involves logically grouping water utilities on a geography basis and scheduling the sanitary surveys of water utilities within a group on a common schedule. This would enable staff to

more efficiently accomplish their surveys.

The second area involves the people actually performing sanitary surveys. Currently, sanitary surveys are performed by state staff, by local health departments, and by regional engineers located in the eastern and southern parts of the state. The expertise that these individuals have varies greatly. There are engineers, chemists, biologist, geologist, microbiologists, former water utility operators and public health professionals. Because water utility personnel could benefit from the knowledge base of any of the areas of expertise noted above, I will be implementing a program where the expertise of the various surveyors will be rotated through the geographically grouped systems. This approach should be beneficial to water utilities.

SOURCE PROTECTION PLANS: The Division of Drinking Water has worked with all of the community and non-transient systems as well as selected non-community systems in developing source protection plans. This information is housed within our files. The Division is one of six divisions in the Department of Environmental Quality. Some of the other divisions are involved in issuing permits to entities that store or discharge waste. Therefore it makes sense for these other divisions to be aware of environmentally sensitive areas (the watershed surrounding drinking water sources). It also makes sense to empower them to make wise decisions in [\(continued page 2\)](#)

Greetings (continued)

their permit issuance tasks. For these reasons, the Division will be contacting these other divisions to build bridges of understanding with them.

CAPACITY: In this context I use the word capacity as EPA uses it. Specifically this means: a) financial capacity, b) technical capacity, and c) managerial capacity. Currently the Division's rules require that all newly proposed public water systems be evaluated to determine that they have sufficient capacity before plans for such work can be approved. This review addresses only one of the two ways a water system becomes a public system. It is the second way that is of concern. This second way differs from a proposed public drinking water system in that there is no proposal, just an evolution. This occurs when a single household or one or two households come together to form a water system and then over time that system grows to become a public system serving 25 or more people. At that time the rules apply and the existing physical facilities, organization, fee schedule, management and technical capabilities are or may be found wanting. For this reason the Division will try to work closely with planners in local jurisdictions to identify the issues, explain the problems and recommend remedies.

CROMMERR: These letters come from an EPA rule which deals with analytical data involving cross media

(air, land, water, etc.) that is electronically reported to governmental agencies charged with protecting the environment and verifying compliance with environmental rules. The purpose behind the federal rule is to ensure that any electronically reported data is actually from a regulated entity and that the entity knows that the data was submitted to the regulating agency.

In connection with this rule EPA has developed a software package that laboratories and/or water utilities can use to electronically convey it to the Division of Drinking Water. The Division intends to use this software to receive data and require all public water systems to submit their data in a specified electronic format which the software would produce. Water utilities would then have the option to either submit the data themselves in the specified format or empower the laboratory to submit the data in their behalf.

The Division will go through a process of enabling, training, rule writing, public comment and implementation. Water utilities and laboratories will be consulted and involved throughout this process.

By enabling the electronic transfer of data, the Division will be able to minimize resources used to reenter data that has already been keyed in by laboratories.

REORGANIZATION: Within the Division there are three sections

identified as the Compliance section, the Engineering section, and the Special Services section. The compliance section and engineering section staff currently consist of 15 people and 14 people, respectively. Because of the multiplicity of assignments and tasks for each of these two sections as well as the number of staff, it becomes desirable to divide these two sections in half and create two additional sections. This will provide a more manageable span of control for the managers. On the down side, by fragmenting the Division into more sections, there will be a tendency to inhibit rather than facilitate communication amongst staff. For this reason I will charge the managers of all the sections as well as individual staff to concerted work on facilitating communication as needed. In addition, I will want the managers of sections to be working managers so they can also be leaders within their respective sections.

CONCLUSION: As can be seen, with the exception of electronic reporting, most of the changes or enhancements will either improve assistance to our water utility partners or go unnoticed. Further, it is my commitment to have a Division of Drinking Water that: a) stands willing to help, b) is approachable, and c) wants to build and/or improve on partnership-type relations with our utility customers to ensure that a safe and reliable supply of water is provided to the citizens of Utah and the traveling public. □

Water operators on military active duty

The Operator Certification Commission recognizes that water system operators serve in all branches of the military and may be called to active duty. The Commission has a policy in place regarding those operators who are called to active duty in the United States military. The Commission will freeze the certification status of operators called to active duty while serving in the military. Once the operator returns, he/she may start from the status they were at before being called to active duty. The operator may also choose to submit CEU credit hours that qualify for training received while serving active duty.

The operator will retain the CEUs earned before being called to active duty. The time spent on active duty will not count as part of the three-year renewal cycle and the operator will have a full three years of operator or specialist status to obtain the remaining required CEUs and to pay any renewal fees required by rule. If the tour of duty were extended for a period of time longer than three years, it would be reviewed on a case-by-case basis.

To report military active duty, please contact the Operator Certification Program staff. □



With the changes to the mandatory operator

Certification Tests

By Kim Dyches
Utah Operator Certification Program

certification rules that took effect in 2001, Utah has seen a gradual and steady increase in the amount of individuals getting certified. The testing numbers at various sites around the State remain consistent. In March we set a conference record at the 2007 Annual Rural Water Association of Utah conference in St. George for individuals taking the test.

With the exception of a few exam cycles, the pass/fail rates continue to be about the same. Generally we see a 40% pass rate in the Level III and Level IV categories. With the Level II test we see around 60% pass, Level I from 70-80%, and the Small System 90-100% pass. We would like to see the pass rates increase with Levels III and IV, but overall, the pass rates tend to reflect the difficulty of the tests. The categories that tend to give individuals the most problems are rules, math, and pumps. We have seen better success with our passing rates when pre-certification classes are taken prior to taking the tests.

Here are a few pointers to help individuals pass the test:

► The first thing that I would consider if I were taking the test for the first time is coming to the pre-certification courses ready to take the test. Many times individuals show up to the course expecting a one-size-fits-all approach to getting everything they need to prepare them to take the test. This plan is far too often destined for failure. The pre-certification courses offered by the various training organizations should only be used as a refresher course to see if you're actually getting what you have been studying. It is impossible to teach all of the information that could show up on the nine different tests given around the State at individual locations.

► Secondly, I have seen many individuals memorizing the information from study guides and books with mock questions. Memorizing is great, but can lead to failure when the questions on the test are different from the study books and the concepts behind the questions aren't understood. An individual needs to have an understanding of why the



answers to questions are what they are and why the distracter questions are wrong. The hardest part of writing a multiple-choice question is writing good distracter answers that make the individual think, and are definitely wrong answers. **USE THE PROCESS OF ELIMINATION.** Usually two of the distracters are obviously wrong. I know an individual who had great success passing the test by cutting out the power point slides individually and making **FLASH CARDS** out of them. This individual attended the training courses and then quizzed himself during lunch hours and breaks. The individual also had a good understanding of the **CONCEPTS** behind the questions. I would recommend a minimum of 30 to 40 hours of individual **STUDY** of test material prior to taking the Level III and IV tests, and a minimum 20 to 30 hours on Levels I and II.

► Third, I would study with other individuals who are also preparing to take the test. Sometimes another individual will pick up something that you may have missed, and by quizzing each other those things come out. Then

you gain a better understanding of the material that you may be tested on.

► Fourth, show up at the exam site rested and ready to take the test. Don't stay up all night cramming for the test. Don't drink a lot of caffeine drinks that can make you nervous, edgy and cause you to lose sleep. Stay away from alcoholic beverages that can cloud your thinking process. Don't eat a large meal that can make you uncomfortable and cause you to shift your concentration from the test to stomach discomfort.

► Finally, in the event that you don't pass the test, request a test review. This will give you the ability to look at your test and see what you missed. In most cases, a person who reviews the test has much better success the second time around. When I took tests in the past, in a lot of instances, once I saw the questions I missed and knew the correct answer, I tended to remember those more than the ones I got right. Having the ability to see what you missed and learning from it will make you a better water operator, perhaps better than someone who took the test and passed it. Also, in most all cases where individuals review their test, they instantly kick themselves for answering a question wrong when they knew the right answer all along. Many individuals read more into a question than is there and they second guess themselves. Usually your first impression is correct. If it gets down to crunch time and you don't feel you are ready to take the test when the test date is upon you, you can defer to the next exam cycle. This will give you more time to study. That way you won't risk losing the exam fee by failing because you aren't ready. I would prefer that you take the test when you are fully prepared and have a good understanding of the material.

HOPEFULLY THESE POINTERS will help you prepare for the test in the future. You can contact me or Margaret any time for assistance and materials that can prepare you for the test and hopefully pass it the first time around. My direct telephone line is (801) 536-4202 and Margaret's is (801) 536-4192. Or contact us by e-mail: kdyches@utah.gov or mhand@utah.gov. □

Getting the most from your source protection plan

By Kate Johnson, Manager
Administrative Services
Division of Drinking Water

You've satisfied your source protection requirements, you are keeping your records up to date, and keeping an eye out for any new potential contamination sources in your protection zones. Is that enough? Here are some ideas for maximizing your investment in your source protection plan.

- Consider meeting with your county planners and/or your local legislators to discuss the need to protect your drinking water sources. Take them on a tour of your facilities and sources, so they get a better understanding of the issues you are concerned about.

- If your county has a source protection ordinance, find out if there are any steps you need to take to make sure the ordinance protects you. The various ordinances in the state have different requirements for

what you, as a system manager or operator, need to do to make the ordinance work for you. Don't wait until you need the ordinance to find out what those requirements are; it might be too late. If you don't know for sure if your county has an ordinance, please call Jim Martin, Mark Jensen or Kate Johnson at 801-536-4200.

- If your county doesn't have an ordinance, and you think that having one would help you protect your sources, consider meeting with the county to explain your needs. Create a partnership with other water systems, and approach the county jointly. Inform the county about the costs of replacing a contaminated drinking water source, and impacts to customers and taxpayers. A little education can go a long way!

- Are there malfunctioning or failing septic systems, agricultural operations, or other sources of pollution in your area that could threaten your drinking water

resources? The Division of Water Quality has State Revolving Fund (SRF) money available for loans (low cost and no cost) to repair or replace septic systems and to help clean up nonpoint source pollution. Contact the local Utah Association of Conservation Districts office or call Shelly Quick at 801-538-6516 for more information.

- Do you need help with some source protection activities? Posting signs or distributing informational material? Check with local community or service groups, such as boy and girl scout leaders or senior citizen groups, to see if these activities might count towards service or merit badge requirements.

FINALLY, IF YOU DO decide to take any of these actions, keep records of them, and include them with your next updated source protection plan. A little action now may be all that's needed to ensure the quality of your water sources into the future! □

Help for mapping municipal infrastructure

The Governor's Office of Planning and Budget (GOPB)/ Planning Section has started a program to help local governments map infrastructure. The GOPB Planning Section, in partnership with the State of Utah's Automated Geographic Reference Center and the Department of Public Safety, will provide hands-on, on-site Global Positioning System (GPS) and Geographic Information System (GIS) training for local governments, both county and municipality. Along with the technical training, the State will loan GPS units to local government to use for infrastructure mapping (e.g., roads, power lines, water and sewer lines, fire hydrants, etc.). The assistance will focus on communities with little or no experience in GIS.

For more information, contact Laura Ault at (801) 538-1545, or at lauraault@utah.gov. □



Sanitary Surveys and a Cross Connection Control Program?

By Michael Moss
*Cross Connection Control Program
of Utah*

Sanitary surveys are a lot of fun! But sometimes there is just confusion. Let's clear some of that confusion. When you have a sanitary survey, the inspector is looking at specific areas of documentation for your system and specific physical items within your system.

One of those areas to be reviewed during a sanitary survey is the Cross Connection Control Program. The State of Utah Public Drinking Water Rules, R309-105-12, state that *every* public drinking water system in the state of Utah is required to have a cross connection control program. So, do you? Is it a paper tiger, just filling a space on the shelf? Or is it a functioning part of your water system operations – protecting you on a daily basis? It is your choice.

The cross connection “program” is simply a set of specific steps you need to follow. Consider it as an insurance policy. The program can certainly be a minimal cost for the resulting benefits. This program needs to be proactive and will help you guide your system through the concerns of improper connections and their associated hazards.

Let's look at your “program,” as an inspector will during a “sanitary survey.”

First, the surveyor will ask for your “Local Authority” statement. This is an ordinance, bylaw, or some other type of legal provision that *you* have established for your water system. It will be approved by your council, board, or governing legal body and signed off by them. In effect, the “local authority” will authorize you to make and enforce requirements for protection of all cross connections; periodic testing of assemblies and checking devices; periodic hazard assessment investigations or surveys and enforcement throughout your water system. This local authority, enforcement methods and a responsible party for administering the program and

enforcement are required to make things work.

The surveyor will check the water system's local authority statement to see



that it has been *officially adopted* by the water system and, if possible, attach a copy to their survey. If you have an authority statement and can show it to the surveyor, there are no points given. If not, there are 10 points assigned to your system and they will remain until a local authority statement is officially adopted and the Division of Drinking Water is notified.

Second, the surveyor will ask to see your *annual* documentation of customer or employee cross connection awareness and education provided to the system. All public water systems should be offering some sort of public education on an annual basis. This information will cover what cross connections are, how they can be prevented, protection options which are available, and concerns associated with thermal expansion where protection is required. The surveyor will review your efforts and documentation. This could include copies of public information fliers, meeting agendas, meeting minutes. “Public” education material could consist of training given to the employees of the facility for non-community systems such as campgrounds, restaurants, highway rest stops, and for non-transient non-community water systems. Document whatever you do as a system.

Make it simple! If this written documentation is not available, 10 points will be assigned to your system and will remain until the documentation is completed and placed in your files and the Division of Drinking Water is notified.

Third, the surveyor will ask if you have been trained. Well, have you? The training required is *attendance* at a 2 to 4 hour course covering basic cross connection control concepts. This class passes out everything you need to complete and document the cross connection program. These courses are scheduled throughout the state by the Division of Drinking Water, Rural Water Association of Utah, American Water Works Association and American Backflow Prevention Association. The Division keeps a record of everyone who has attended any acceptable class. If your name is not on one of the attendance lists, *you* need to attend a class somewhere. And, you will have 10 points assigned to your system. The points will remain until attendance at a class or adequate training is received and verified by the Division of Drinking Water.

Fourth, the surveyor will ask to see your *annual* documentation and records for your cross connection control program. Records should be prepared and maintained for any and all hazards connected to your system; surveys or inspections; inventory and locations of backflow prevention assemblies and high hazard air gaps; inventory and locations of backflow prevention devices; test histories and inspection records; backflow incidents; corrective actions taken; and compliance and enforcement actions taken. The surveyor will inspect the records of your water system. At a minimum those records should consist of the Local Authority document, public awareness information, hazards found and equipment used for protection. Larger systems should have inventory records and test histories of backflow assembly valves. Records of hazard assessment (site inspections) may be present for all commercial connections.

(continued page 6)

Sanitary surveys... (continued)

If these records are not written down and available, you will have 10 points assigned to your system and they will remain until the documentation is completed and is verified by the Division of Drinking Water.

Fifth, the surveyor will inspect the **annual** documentation of your water system for “Ongoing Enforcement.” Specifically, the surveyor will look for the “Local Authority” statement; **annual** documentation of customer or employee awareness of education; the **annual** documentation and records for your cross connection control program. This is ultimately evaluated by such questions as: Are the cross connection hazards

that are found during the hazard assessments being followed up on? Are hazard assessments being done at all? What is the frequency that the water system will re-inspect high hazard connections, low hazard connections? If all of the mentioned records are not written down and available, you will have 10 points assigned to your system and they will remain until **all** the documentation is completed and verified by the Division of Drinking Water.

Let’s clear some of that confusion. When all five items are completed, you will have no points assigned for a cross connection program. You **cannot** have an ongoing enforcement program if there are any of the previous four items

lacking proper documentation. The best way to help your system is to attend the training required of basic cross connection control. Take the handouts, review them to figure what works best for **your system**, and complete the necessary documentation for your cross connection program. The list of scheduled training available can be found at the following Division of Drinking Water website:

<http://www.drinkingwater.utah.gov/documents/compliance/c3ProgTrng07.htm>.

QUESTIONS? Please call Michael Moss at (801) 536-0089. □

Backflow Technician Certification/Recertification Courses Utah Schedule 2007

Note: This list contains all courses scheduled in Utah.

<p>UTAH VALLEY STATE COLLEGE 800 West University Parkway Orem, Utah 84058-5999 Call: (801) 863-8117 Fax: (801) 863-7077</p> <p>Register Online: www.uvsc.edu/eath/seminarsCalendar.html</p>	<p>Class II Tester Certification Class: All in Orem, Utah Mar 5-9, 2007 May 21-25, 2007 Sep 10-14, 2007 Nov 26-30, 2007</p> <p>Class I Administrator Certification: June 5-8, 2007 December 10-13, 2007</p>	<p>Class II Tester Recertification Class: All in Orem, Utah Jan 8-10, 2007 Oct 15-17, 2007 Dec 4-6, 2007 Dec 18-20, 2007</p> <p>Class I Administrator Recertification (Please see Certification Classes)</p>
<p>RURAL WATER ASSOCIATION OF UTAH 76 East Red Pine Drive Alpine, Utah 84004 Call: (801) 756-5123 E-mail: rwau@rwau.net</p> <p>Register Online: www.rwau.net/training.html</p>	<p>Class II Tester Certification Class: Dec 03-07, 2007 St George, UT Dec 10-14, 2007 Ogden, UT</p> <p>Class I Administrator Certification: Jan 22-25, 2007 Logan, UT May 1-4, 2007 Ogden, UT May 15-18, 2007 St George, UT</p>	<p>Class II Tester Recertification Class: Dec 05-07, 2007 St George, UT Dec 17-19, 2007 Ogden, UT</p> <p>Class I Administrator Recertification (Please see Certification Classes)</p>
<p>BACKFLOW TRAINING SERVICES 2071 West Byron Circle West Valley City UT 84119 Call: (801) 554-6052 Fax: (801) 957-4671 E-mail: Greg.Hand@slcc.edu</p> <p>Location: Salt Lake Community College Meadowbrook Campus 3900 S. 300 W., Building “B” Salt Lake City UT</p>	<p>Class II Tester Certification Class: Mar 12-16, 2007 May 07-11, 2007 Aug 13-17, 2007 Dec 17-21, 2007</p> <p>Class I Administrator Certification: Mar 13-16, 2007 May 8-11, 2007 Aug 14-18, 2007 Dec 18-21, 2007</p>	<p>Class II Tester Recertification Class: Mar 14-16, 2007 May 9-11, 2007 Aug 15-17, 2007 Dec 19-21, 2007</p> <p>Class I Administrator Recertification (Please see Certification Classes)</p>

Lead and copper rule again. What's new? What's going on?!

By Don Lore
Environmental Health Scientist
Division of Drinking Water

"I just looked at my monitoring schedule and it says that my last lead/copper sample was taken 12/31/2008!! Not only is this physically impossible, but I distinctly remember taking lead/copper samples in September of 2006! What is going on?!"

Have you experienced this problem? It is okay! You are not going crazy. There is no time warp involved. And, amazingly enough, the Division of Drinking Water (DDW) staff are not going crazy either (we hope). Here is what is happening: DDW has recently implemented a new data tracking system called the Safe Drinking Water Information System (SDWIS). Because this is a federally created project, it has a few quirks. One aspect of SDWIS is that it reports the last date sampled as the last day of the monitoring period in which the sample was taken. In other words, if we sample in September of 2006 for our 3-year monitoring, SDWIS places this in the 01/01/2006 to 12/31/2008 monitoring period and reports to us that we last sampled in 12/31/2008. What it is actually telling us is that we need to take samples again in 2009 (or 3 years from 2006 when we took the last sample). Sorry for the confusion. I hope no one spent too much on psychiatric consultation.

While we are on the topic, let's review the lead/copper rule. In Utah, lead or copper enters our drinking water by dissolving from pipes, solder, or plumbing fixtures. We test the drinking water in our system by taking samples from cold water taps people drink from, use to prepare food, or use to wash their hands. These are called consumption taps and are usually in the kitchen or bathroom. Because we want to protect people as much as possible, we choose our samples from homes that are at greatest risk. These are usually homes with metal piping built between 1982 and 1986 or that have lead service lines. To make sure our tests are accurate, we sample when the water in the home has not



been used in 6 to 8 hours (also called "first draw" sample). If the sample is taken by the home owner, they need to be trained on how to take the sample. (They would probably appreciate being trained instead of being awakened early in the morning before anyone in the home has a chance to shower, brush teeth, or flush the toilet and let someone in!) EPA has also reminded us that home owners should be encouraged to clean aerator screens regularly but they should not be removed just for the lead/copper test.

Now for the nuts and bolts. The test results must be sent to DDW and entered into SDWIS so that we can avoid penalties. The action level for lead is 0.015 mg/l (ppm) or 15 ug/l (ppb), which is the same thing. The action level for copper is 1.3 mg/l (ppm) or 1300 ug/l (ppb) which, again, is the same thing. Any time a sample is higher than the action level, it is a good idea to investigate what is going on and see if people are in danger of getting too much lead or copper. DDW can invalidate sample results if you request it in writing and indicate why the sample is from the wrong location, is tampered with, or the container is damaged. Of course, you would then need to take more samples to make up for the ones invalidated.

IF YOU HAVE ANY QUESTIONS, you could call Don Lore with DDW at 801-536-4204, or e-mail him at dlore@utah.gov. He is supposed to have all the answers and I hear he likes to talk to people. Have fun! □

All community systems must sample for radium-228

By Rachael Cassady
Environmental Scientist
Division of Drinking Water

Recently we were notified by the EPA that we must correct how we are implementing the Radionuclide Rule, Utah Public Drinking Water Rules R307-205-7. In order to correct our implementation of this rule we are requiring all public, community systems to sample for radium-228 for at least two calendar quarters. After these two quarterly samples have been completed with no detections, the sampling for radium-228 will become part of the standard radionuclide sample. In order not to overwhelm the laboratories we have set up a sampling schedule as follows: *(continued page 8)*

System Population:	Two radium-228 samples are due between:
3,300 and below	October 1, 2008 and September 30, 2009
3,301 and above	October 1, 2007 and September 30, 2008

We are sending out letters the week of August 20th to all community systems notifying them of this new requirement. Please note that you can take the two quarterly radium-228 samples at anytime, you do not have to wait until the period that we have set. Just make sure to schedule the sampling with your laboratory. As with any compliance sampling, you must use a certified laboratory, and it is still your responsibility to send a copy of the results to our office.

The monitoring schedules for all community systems have been updated to show this new requirement. We will be providing training on radium-228 sampling along with copies of the updated monitoring schedule during the next few months. Please note that you can request an updated copy of your monitoring schedule at any time, just call our office and we can mail, email, or fax it to you. The training dates and times are still being finalized, but they will be mailed to all community systems.

For more information about this new requirement and the upcoming training on it please contact Rachael Cassady at 801-536-4467, or rcassady@utah.gov. □

Source protection zones in electronic format

By Mark Jensen, Geologist
Division of Drinking Water

Public water systems in Utah have been drawing their source protection zones on paper maps ever since the Drinking Water Source Protection program started in 1993. Those protection zones have now been converted to digital format to be used in geographic information systems (GIS). The zones were digitized as part of a GIS project for the Utah Underground Injection Control Program.

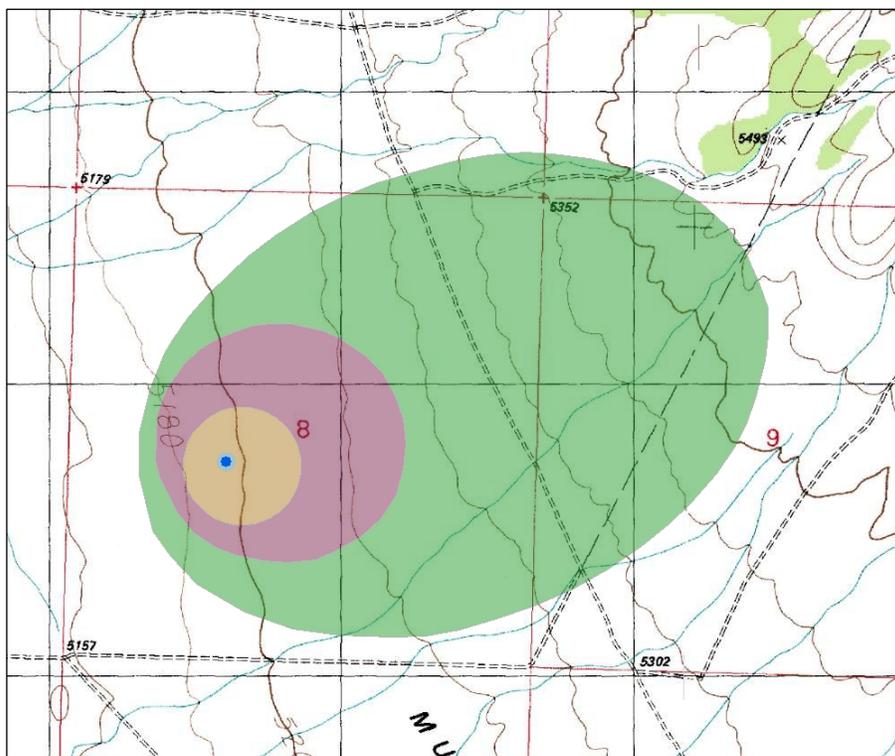
The first step in a Drinking Water Source Protection program is to delineate the protection zones. This step is to determine where the water is coming from, and outlines the sensitive area in which to focus the rest of the Source Protection efforts. The digitized zones include zones for ground water sources, surface water sources, and existing sources used by transient non-community water systems.

Having these zones in electronic format is exciting because we can do so much more with the zones now. On paper maps, each agency that needed to use the maps would have to make copies, and then visually compare the map to other maps of potential contamination sources. Now, by using the protection zones as layers in a GIS, we can make a computer map file fit with layers of other mapped features, and have the computer give us a list of the mapped potential contamination sources located within each zone.

The source protection zones are unique for each water source because the ground-water zones are based on ground-water movement or hydrogeologic boundaries. The surface-water zones follow streams and watershed boundaries.

In this digital format, the same set of zones can be used by water systems, municipal land management agencies, and local planning and zoning agencies. These agencies can more easily work together to protect our drinking water sources. The map layers can be used for planning future facilities to protect water sources.

To find out about using the digital source protection zones in your agency contact Mark Jensen in the Utah Division of Drinking Water at 801-536-4199 or mjensen@utah.gov. □



E-mail reporting

DDWReports@utah.gov

By Patti Fauver, Manager
DDW Rules Section

MORE AND MORE water system personnel are sending the Division of Drinking Water information and data via e-mail. This is really a fast and easy tool to use if you have the computer equipment and skills. Recently with the departure of a staff member who received many reports via e-mail, the Division found that we needed to look at this mechanism for providing reports, analytical results and other information to the Division.

In order to save systems the hassle of resetting an e-mail address each time our staff changes - the Division has set up a reporting e-mail account where we would like all reports and data to be sent. This e-mail is independent of staff and will not change as staff changes at the Division. The e-mail address of this account is DDWReports@utah.gov.

Some of the advantages of this account are:

1. One location to send all reports, results and information to the Division.
2. The account is set up to automatically send you a response back stating that we have received your e-mail. This works nearly all the time except for web-based e-mail addresses (software prohibited to avoid auto e-mails from continually auto responding to one another).
3. The e-mail will be sorted by content to each individual rule manager. All our rule managers have access to this account to check for information that is sent in. In order to help sort the e-mail more efficiently, on the subject line of your e-mail, we would like you to put the **WATER SYSTEM NUMBER** and the **TYPE OF THE RESULTS OR REPORT BEING TRANSMITTED**. Please send a separate e-mail for each different type of information. Please do not put several different reports on the same e-mail.

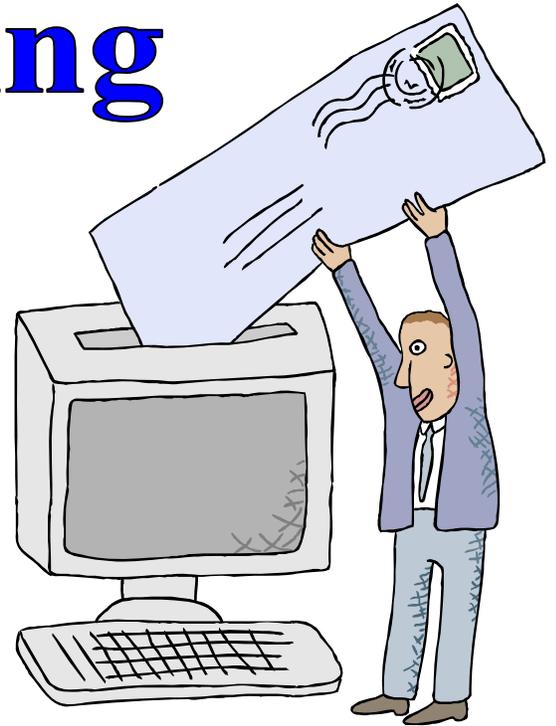
Examples:

03088 - QUARTERLY REPORT

01021 - NITRATE RESULTS

18154 - LEAD AND COPPER SAMPLES

This will help our staff identify the individual e-mails that pertain to each rule manager. It would be helpful if you would send a separate e-mail for each type of information but at a minimum list all the items in the subject line.



Staff assignments are:

RACHAEL CASSADY - Telephone (801) 536-4467

- Chemistries (Inorganics, Nitrate, VOCs, SOCs, Radionuclides)

JANET LEE - Telephone (801) 536-0088

- Total Coliform samples

DON LORE - Telephone (801) 536-4204

- Lead and Copper samples
- Arsenic treatment reports

BRAD HOLDAWAY - Telephone (801) 536-0063

- Surface Water Treatment Rule monthly reports,
- Disinfection Byproducts Rule quarterly reports,
- IDSE sample plans, results and reports

BRETT SHAKESPEAR - Telephone (801) 536-4198

- Consumer Confidence Reports

After Division staff has processed the information in the e-mail, it will be placed in an e-mail file by rule and archived.

4. If we have a question of whether we have received data from a system, we can search the e-mail archive first. THIS IS A NEW PROCESS and I am sure that a few bugs will need to be worked out. I am also very confident that the process will ease some confusion and create a central depository for information delivered to the Division in this manner. As always, do not hesitate to call us if you have questions. □

Home study items available in the Lending Library

The Operator Certification Program's *Lending Library* is available to all water system operators and managers, and anyone preparing for the certification exam. By filling out a library application, you can have access to all training manuals, state government rules, videos, CDs and DVDs. Call Margaret at (801) 536-4192 or e-mail mhand@utah.gov to check out items or to request free CDs.

Is your water operator certificate due to expire soon? Do you have enough CEUs to renew? The *Lending Library* contains videos and CDs that can be checked out, viewed at your convenience, and the hours credited to your operator CEU record. The following items may be viewed for CEU credit:

OPERATOR BASICS 2005 CD-ROM - This 2005 version of Operator Basics contains three courses on one CD-ROM: an 11-hour course in Ground Water Systems, a 13-hour course for Surface and Ground Water Systems, a 9-hour Wastewater Lagoon course, and a 1.5 hour presentation that allows users to tour 8 small drinking water systems. Each course is designed to prepare operators of small public water systems for certification. Certified operators may use this training to meet continuing education requirements.

When you've completed the desired training activities, you can view and print a summary certificate and detailed record of activities completed. For CEU credit, mail or fax a copy of the printed document to the Division of Drinking Water's Operator Certification Program.

CONTAMINATION EXPLORER CD-ROM - Contamination Explorer is the newest training product developed by the Montana Water Center. This CD-ROM distills complex biological and chemical contamination topics into easily digestible information suitable for regulators, inspectors and drinking water operators. Topics include: Bacteria, Biofilms, Viruses, Parasites, Arsenic, Stormwater Runoff and Replacing/Disinfecting a Section of Main. An advanced tracking system ensures that users finish all sections of the course before printing a certificate of completion. A 50-question final quiz tests knowledge retention. This training CD is available free of charge by contacting Margaret by phone at (801) 536-4192 or e-mail mhand@utah.gov.

MATH AND CALCULATIONS VIDEOCASSETTES - For CEU credit, view the math quiz at the end of the video, work out the math problems on paper, and submit the paper, along with a CEU application, to the Division of Drinking Water. To obtain a CEU application, contact the Operator Certification Program staff.

Math and Calculations, Part 1 (Beginning) = 0.3 CEU
Math and Calculations, Part 2 (Intermediate) = 0.3 CEU
Math and Calculations, Part 3 (Advanced) = 0.3 CEU

FOR MORE INFORMATION, contact the Operator Certification Program staff (Margaret or Kim). Telephone: (801) 536-4200. E-mail: mhand@utah.gov OR kdyches@utah.gov. □

Small Utility Board Training CD-ROM

Montana State University has produced a CD-ROM titled "Small Utility Board Training" for use in small water utility management. The CD was made available through an EPA grant.

Being a decision maker for a small water utility can be a challenge. The CD course is designed to help water board members and elected officials understand the basic principles of public water system regulation, operation, planning, budgeting and communication.

The videos, animations and interactive documents in the CD provide new board members with valuable tools and experience to hit the ground running. The course contains over three hours of total training time.

The CD features 90 minutes worth of videos of actual board member interviews, meeting coverage, water system procedures and emergency scenarios. For a free copy of the CD, contact the **Division of**

Drinking Water
at (801) 536-4192
or e-mail:
mhand@utah.gov.

You may also obtain a free copy by calling the **National Environmental Services Center** at 800-624-8301 or 304-293-4191. Ask for product #DWCDTR23 □



Safe Drinking Water Tools for Public Water Systems

Safe Drinking Water Tools for Public Water Systems is an interactive CD-ROM product of EPA's Office of Ground Water and Drinking Water (EPA #816-C-05-003).

This CD is for informational purposes only. It is a collection of previously published EPA documents, EPA-developed training materials and selected informational materials from outside sources.

Access documents by browsing through the major topics or searching for a particular keyword. Topics: 1) Capacity Development, 2) Public Water Systems 101, 3) Rules & Regulations, 4) Source Water Protection & Underground Injection Control, 5) Technologies, 6) Training & Tools, 7) Water Security, 8) Web Guide for Water Systems.

The CD is available online. To download, visit the EPA website at www.epa.gov/safewater/pws/tools. The CD is also available at the Division of Drinking Water office, telephone (801) 536-4192, or e-mail: mhand@utah.gov. □

Water operators who renewed their certificates in 2006

A TOTAL OF 739 water operator certificates expired on December 31, 2006. According to the State of Utah Operator Certification Rules, "an operator may renew a certificate by showing evidence of required training and by payment of a renewal fee." Operators who fail to renew the certificate are removed from the Utah operator certification database. In 2006, approximately 77% of these operators renewed their certificates for another three-year period.

The operators listed below submitted a renewal application and fee, and successfully completed the required water-related training. The certificates will be valid until December 31, 2009. The Rules state that these operators must again earn a sufficient number of CEUs in the three-year period January 1, 2007, to December 31, 2009, in order to renew their certificates in 2009.

Type of certificate: D = Distribution; DS = Small System; T = Treatment

Cert. Number	Operator Name	Certificate/Grade Level	Water System
23019	Aagard, Roger F.	D-I	Fountain Green City
23144	Abrahamson, Shelly	D-II, T-II	Draper City
20062	Adams, Wesley O.	D-IV	Layton City
22101	Aitken, Robert J.	D-IV	Central Utah WCD
92100	Allen, Bevan H.	D-IV	Holliday Water Company
22502	Allred, Clayton R.	D-IV	Jordanelle SSD
87319	Allred, John A.	T-IV	Water Specialist
93100	Alsup, Philip	D-IV	Bona Vista Water District
86629	Andersen, James A.	D-IV	Tooele City
20066	Anderson, Blake B.	T-IV	West Bountiful City
87760	Anderson, Blake R.	D-IV	Kearns ID
84206	Anderson, Scott	D-III	Woods Cross City
23078	Apedaile, G. John	D-S	Casper's Ice Cream
90501	Argentos, Bradley G.	T-IV	Salt Lake City
94102	Armenta, V. Joe	T-IV	Water Specialist
99101	Ashworth, Randy C.	D-IV	Salt Lake City
23143	Atwood, Lee	D-I	Paradise Town
95103	Averett, Ashley H.	D-IV	LaVerkin City
23502	Axelgard, Mikel A.	T-IV	Jordan Valley WCD
88116	Aziz, James C.	D-III	Kanab City
91100	Babcock, Keith L.	T-I	Dutch John
20002	Baca, Ernie P.	D-S	Water Specialist
23022	Bacon, Keith L.	D-I	St George City
20564	Baer, Mark L.	T-II	Water Specialist
20003	Baggs, Kevin L.	D-S	Browning Arms
91101	Baird, Mark W.	D-III	Clearfield City
97102	Baldwin, J. Jeff	D-IV	Ogden City
84210	Banks, James B.	T-II	Wolf Creek/Liberty Pipe
23080	Barber, Chris R.	T-IV	Salt Lake City
97103	Barfuss, Jeffery S.	D-III	South Ogden City
23024	Barker, Glen N.	D-S	Aspen Highland Subdiv
23081	Barker, Joseph A.	T-II	Springdale Town
91102	Barnes, Leroy Dee	D-III	Providence City
96101	Barnett, Timothy	D-IV	Bountiful City
94105	Batty, Layne E.	D-IV	Orem City
20500	Baum, Robert D.	D-IV	Sandy City
23503	Bayer, Helmar G.	T-IV	HBC International Inc
20501	Beauregard, Samuel	D-II	Moab City

Cert. Number	Operator Name	Certificate/Grade Level	Water System
23082	Bell, Gregory R.	D-II	Alta Ski Lift Company
98504	Bell, Randy	D-III	Castle Valley SSD
23026	Bennett, James A.	D-I	Spring City
23027	Bertola, Harold L.	D-S	Offshore Marina
93504	Bevins, Michael J.	D-IV	Water Specialist
95503	Bilbrey, Willis J.	D-IV	Sandy City
20069	Bisel, D. DeLoy	D-II	Woodland Mutual Water
97503	Blackett, Justin M.	D-III	Nephi City
90503	Blake, Stephen J.	D-IV, T-IV	Jordan Valley WCD
88505	Blonquist, Blair E.	T-IV	Salt Lake City
99505	Bodell, Bryon J.	T-IV	Salt Lake City
94107	Bodell, Reed L.	D-III	Kennecott Utah Copper
23148	Bonnett, Val D.	D-I	Utah State Hospital
20070	Bowen, Albert Gary	D-II	Goosenest Water Co
88538	Bown, Ronald J.	T-IV	Jordan Valley WCD
99110	Bracken, Dustin L.	D-IV	St George City
23028	Bradbury, Shane D.	D-S	Aspen Ranch
20006	Bretthauer, Erich W.	D-S	Bryce Woodlands
23029	Brinkerhoff, C. Kent	D-I	Monte Vista Community
23084	Bristol, Louis	D-IV	Ashley Water & SID
20504	Brooks, William David	D-II	Zion National Park
20072	Brough, Blaine E.	D-II	Uintah Highlands ID
20145	Brown, Jeff K.	D-IV	Kaysville City
20073	Brown, Steven J.	D-S	LDS Church Systems
94109	Brown, Timothy	T-IV	Ogden City
98505	Bullock, Ted C.	T-IV	Ogden City
86693	Burch, Blake	D-III	Metropolitan WD of SL
96536	Burrows, Michael A.	D-IV	Magna Water Company
99508	Burt, David E.	D-I	Canyonlands Nat'l Park
22110	Busch, Chad D.	D-IV	Metropolitan WD of SL
97105	Butler, Brent E.	D-II	Mapleton City
92105	Butler, Robert	D-IV	Washington City
21110	Butterfield, Eddie	D-IV	Ogden City
91105	Cain, Barry H.	T-I	Ashley National Forest
23086	Call, Jerilyn J.	D-II	Uintah Highlands ID
97504	Callister, Brian	T-IV	Jordan Valley WCD
20506	Camerota, Stephen	D-S	USDA Forest Service
94562	Campbell, Michael G	D-IV	Sandy City
00525	Carbine, James W.	D-IV, T-IV	Water Specialist
20075	Cargeeg, Jon A.	T-IV	Weber Basin WCD
98107	Carlin, Blake	D-IV	Bona Vista Water District
96106	Carney, Charles L.	D-II	Washington Co WCD
97107	Carpenter, Jamie	T-IV	St George City
23152	Carr, William E.	T-IV	Washington Co WCD
97108	Carter, Alden Mel	D-IV	Centerville City
92106	Carter, Barry K.	D-IV	Water Specialist
97109	Carter, Dale E.	D-II	Provo City
82349	Carter, James R.	D-I	Springville City
23505	Carter, Von R.	D-I	Kennecott Utah Copper
23033	Casteel, Charles Edw	D-S	Veyo Water Company
93139	Cedillo, Rene	D-IV	Brigham City
99114	Chadburn, Jeremy J.	D-IV	St George City
20008	Chappell, Charles D.	D-S	Loa Town
97110	Chappell, Lane	D-I	Lyman & Fremont Sys
85003	Childers, Henry F.	T-IV	Washington Co WCD
20507	Christensen, David L	D-I	Cove Fort Historic Site
94111	Chynoweth, Brett	D-I	Tropic Town
90107	Clark, Mark H.	T-IV	Weber Basin WCD
20009	Clark, Paul	D-S	Deseret Oasis SSD
95509	Clark, Steven D.	D-IV, T-I	Magna Water Company
88162	Clement, Michael J.	T-IV	Salt Lake City
90108	Coleman, Samuel R.	D-IV	Provo City
98507	Collett, Craig W.	D-S	Greendale Water Co
20010	Collier, Terry K.	D-S	Dutch John
94510	Condie, John Kevin	D-IV	St George City
20077	Connor, Jeff D.	T-IV	Weber Basin WCD
84013	Cook, Calvin J.	D-S	Cedar Fort
96506	Cook, Gordon P.	D-IV	Metropolitan WD of SL
95510	Coon, J. Lynn	D-IV	Metropolitan WD of SL

Cert. Number	Operator Name	Certificate/Grade Level	Water System	Cert. Number	Operator Name	Certificate/Grade Level	Water System
99509	Covey, Max L.	D-IV	Jordanelle SSD	23043	Gale, Wade	D-S	Summit Culinary Water
23088	Cox, Bobby D.	D-I	St George City	97519	Gardner, Dana D.	D-II	Dugway (Griffin Srvcs)
23035	Cox, Dennis W.	D-I	Monte Vista Community	85004	Gardner, Nolan L.	D-IV	St George City
22209	Cox, Ervin D.	T-IV	Washington Co WCD	23157	Gibson, Michael A.	D-S	Delta Egg Farm
21509	Crawford, Jon M.	T-IV	Kearns ID	94127	Gifford, Dean J.	T-IV	Weber Basin WCD
88168	Crawford, Steven S.	T-IV	Jordan Valley WCD	99520	Giles, Clint R.	D-IV	Magna Water Company
23089	Crittenden, Matt	D-II	Kamas City	20018	Gillies, Burton V.	D-S	Fishlake National Forest
88815	Crofts, Jackson A.	T-IV	Central Utah WCD	23158	Goodfellow, Suzanne	D-S	Storm Haven Water Co
23036	Culver, James R.	T-IV	Washington Co WCD	92505	Goodrich, Kenneth	D-IV	Ashley Valley W&SID
20512	Cunningham, Steve	T-II	WaterPro, Inc.	23159	Gordon, Brent H.	D-I	Lakeshore/Benjamin
94511	Daines, Steven M.	D-II	Logan City	21125	Gordon, Thomas W.	D-IV	Taylorville-Bennion ID
97112	Davis, Bill L.	D-II	Provo City	99522	Grammer, Brad	D-IV	Central Utah-Ashley Vly
89112	Davis, David Guy	D-IV	Energy West Mining Co	97125	Grandpre, Jamie E.	T-IV	Ogden City
90110	Davis, Gary Allen	D-IV	Cedar City	23098	Green, Lynn R.	D-III	Tremonton City
92109	Davis, Hal	T-I	Ogden City	23517	Gregory, Jared L.	D-II	Clinton City
23507	Davis, John E.	D-I	Hovenweep Nat'l Monu	99523	Grundy, Stanley R.	T-IV	Jordan Valley WCD
98509	Davis, Jon G.	D-IV	Magna Water Company	23099	Gubler, Ted L.	D-S	Apple Valley Water Co
20011	Davis, Philip L.	D-S	Bryce Canyon Nat'l Park	23160	Guffey, Rauni L.	D-I	Tabiona Town
92503	Davis, Steven P.	D-IV, T-I	Murray City	23100	Gunter, Kenneth G.	T-II	Energy West Mining
85612	De Jong, Britt A.	T-IV	Weber Basin WCD	97524	Guymon, Darce D.	T-IV	PacifiCorp/Huntington
95109	Dearing, Ryan C.	D-IV	West Jordan City	22125	Hadfield, Larry A.	T-IV	Lehi City
23038	DeLeeuw, J. Gary	D-S	Greenwich Water	20020	Hanks, Joseph S.	D-S	Skyline Mountain SSD
94514	Dennis, Patrick P.	D-IV	Water Pro	97526	Hanmann, Jeffery L.	T-IV	Tooele Army Depot
97113	Devey, Ron K.	D-II	Alpine City	91114	Hansen, Chris P.	D-II	Morgan City
23508	Dillman, David H.	D-IV	Heber Valley Camp	92508	Hansen, Douglas A.	D-IV	Holiday Water Company
21513	Domingo, Manuel	D-II	Kearns ID	91115	Hansen, Garrett L.	T-III	Castle Valley SSD
92112	Donahue, William M	D-IV	Layton City	20094	Harper, Richard D.	D-I	Echo Mutual Water Co
97513	Douglas, Darren G.	D-IV	Roy City	92122	Harrah, Gregory R.	D-IV	Layton City
97514	Douglas, Shawn G.	D-IV	Riverdale City	96122	Harrington, Scott P.	D-IV	White City
21042	Dowdy, James E.	T-III	Hill Air Force Base	97527	Harris, Brian L.	T-IV	Geneva Rock Products
98117	Doxey, James G.	D-IV	Ogden City	97528	Hatch, Alan B.	T-IV	Weber Basin WCD
23554	Drake, Roger G.	D-II, T-IV	Glen Canyon-Hite	84255	Hatch, James H.	D-IV	South Davis Water Distr
23090	Duke, Kelly L.	T-II	Energy West Mining	00354	Hatch, Roger K.	T-IV	Central Utah WCD
23091	Dumpert, Eric A.	D-II	Water Specialist	23519	Hatch, Tracy	D-I	Bountiful City
20083	Dunton, Brian	D-IV	Sandy City	20095	Hatfield, Shad R.	D-III	Pleasant Grove City
00640	Durrant, Gary C.	D-IV	Metropolitan WD of SL	23145	Havens, Robert J.	T-II	Cedar Highlands
88143	Durrant, Spencer L.	D-IV, T-IV	Salt Lake City	20022	Hawkes, R. Craig	D-S	Howell Town
20084	Echevarria, Michael	D-IV	Water Specialist	99526	Hawkinson, Larry E.	D-II	Green River City
94119	Ecker, David R.	D-I	Redmond Town	20096	Haws, Joel K.	D-S	Virgin Town
00260	Eddy, Louis K.	T-IV	Weber Basin WCD	23102	Hayes, F. James	D-I	Kearns ID
23509	Egan, Christopher B.	D-IV	Jordan Valley WCD	23046	Hayward, Dean G.	D-S	Shiloah Wells Water Co
91110	Eggett, Brett	D-IV	Bountiful City	20097	Heaps, William D.	T-II	Energy West Mining
97121	Ellett, Pace N.	D-I	US Forest Service	22516	Heaton, Ingo H.	T-IV	Holiday Water Company
97515	England, Bob D.	D-IV	Roy City	97529	Heitman, Todd A.	D-IV	South Jordan City
22509	Erickson, Kim W.	T-III	Kennecott Utah Copper	84045	Henderson, Patrick	D-IV, T-II	Murray City
90111	Ericson, Edwin R.	D-II	Wellington City	23521	Herrera, Ray	D-IV	Sandy City
23511	Eriksson, Carl R.	D-IV	Kearns ID	97530	Higbee, Kelly D.	D-III	Logan City
88510	Ernest, Danny	D-IV	Jordan Valley WCD	00080	Higham Jr., Thomas	T-II	Water Specialist
23512	Ertmann, Lee E.	D-IV	South Jordan City	90514	Higley, Bruce D.	D-IV, T-IV	North Ogden City
94122	Ervin, C. Douglas	D-II	Midvale City	23522	Hill, Jerry L.	D-S	Pine View HOA
23155	Eskelson, E. Farley	D-I	Cool Springs Mutual Wtr	97129	Hill, Richard A.	D-II	Bountiful City
23041	Evans, Charles H.	D-S	Central Water Works	00148	Hodson, Paul	T-I	Bona Vista Water District
84039	Ewell, Dallin D.	D-IV	Metropolitan WD of SL	21130	Hollenbeck, Ronald	T-IV	Kearns ID
20517	Fage, Fred L.	D-III	Heber City	96126	Hone, Michael C.	D-IV, T-IV	Metropolitan WD of SL
93514	Farr, Wayne N.	D-IV	Summit Wtr Distribution	20024	Hood, Douglas M.	D-S	Spring Lake
96511	Favero, Thomas Kirk	D-IV	Riverdale City	23523	Housley, Robert J.	D-IV	Utah State University
86659	Fearn, Robert B.	T-IV	Weber Basin WCD	23524	Howey, Dennis C.	D-I	St George City
93112	Felicia, Marcel	T-II	Water Specialist	98517	Hoyne, Alan R.	D-IV	Midvale City
97517	Fenton, Quinn W.	D-IV	Orem City	94523	Huff, Richard G.	T-IV	Price River WID
20518	Ferguson, Kristy	D-S	Timpanogos Cave Natl M	24055	Hughes, Ralph S.	D-I	Glen Canyon/Halls
99516	Ferrel, Susan S.	D-IV	Metropolitan WD of SL	20025	Hughes, Sean D.	D-S	Daggett Co/Dutch John
23513	Fillmore, Carl Lewis	D-II	North Emery Water SSD	22189	Hunsaker, Kellie L.	D-II	SL Co Service Area #3
20013	Finstick, Sue A.	D-S	Bulloch Bros Engineering	91118	Hunt, Chet D.	T-I	Green River City
20085	Fisher, Barton M.	D-II	Milford City	20099	Hunter, Kcris M.	T-II	Water Specialist
94123	Frandsen, Darren H.	D-IV	Fruit Heights City	90118	Hunting, John B.	D-IV	Uintah WCDistrict
88159	Fritz, David J.	D-IV	Sandy City	94134	Huppi, Terrel J.	D-3, T-3	North Logan City
88129	Fulgham, Paul C.	T-IV	Tremonton City	22130	Hurley, Daniel K.	D-IV	Kearns ID
20090	Fuller, Matthew S.	T-IV	Weber Basin WCD	96127	Hurst, Theodore	D-IV	St George City
20014	Fullmer, Corey Y.	D-S	Junction/Antimony	94193	Hutchings, Matthew	D-IV	Provo City

Cert. Number	Operator Name	Certificate/Grade Level	Water System	Cert. Number	Operator Name	Certificate/Grade Level	Water System
23525	Hwang, Chien C.	D-IV	West Jordan City	20037	Magee, Terrance R.	D-S	Bryce Woodlands Estates
23164	Iverson, Kelby B.	D-II	Washington Co WCD	89517	Magleby, Devin B.	D-III	Monroe City
20026	Jackson, John D.	D-S	Caineville SSD	23119	Mann, Karen S.	T-IV	Weber Basin WCD
23526	Jackson, Russell F.	D-II	Spanish Fork City	20039	Maras, Dennis K.	D-S	Ashley National Forest
23105	Jarvis, Jason E.	D-II	Spanish Fork City	89123	Marchese, Michael	D-IV	Clearfield City
20101	Jaterka, Robert A.	D-IV	Magna Water Company	23120	Mark, Greg N.	D-IV	Jordan Valley WCD
21132	Jeffery, Kenneth E.	D-IV	St George City	94533	Marler, Clair A.	D-IV	Utah State University
20102	Jensen, George R.	T-II	Energy West Mining	23121	Martindale, Dustin K	D-IV	Granger-Hunter ID
99140	Jensen, Joseph B.	D-IV	Taylorville-Bennion ID	20533	Mashburn, Jay H.	T-III	Water Specialist
99141	Jerominski, Paul E.	D-IV	Park City	87824	Mastin, Troy R.	D-II	Price River WID
97134	Jessop, Loyd Y.	T-II	Washington Co/Cottam	99539	Matheson, Jeffery E.	D-IV	Metropolitan WD of SL
87754	Jessop, Scott V.	D-3, T-3	Hildale-Colorado City	20112	Mathis, Scott W.	T-II	Energy West
94524	Johnson, Clifton Ron	D-IV	Logan City	99540	Matthews, Bernard L	T-IV	Water Specialist
97135	Johnson, Joel M.	D-IV	Granger-Hunter ID	23055	McFarland, Darin J.	D-II	West Corinne Water Co
20031	Johnson, Mark L.	D-S	Sherwood Water Co	94537	McFarland, Michael	T-IV	Utah State University
20032	Johnson, Moyle C.	D-II	Bryce Canyon Nat'l Park	84086	McFarlane, Kurt D.	D-IV	Price River WID
99532	Johnson, Rick B.	D-IV	South Ogden City	97148	McIntosh, Stephen G	D-IV, T-IV	SL Co Service Area #3
20104	Johnson, Tome E.	D-I	Arches Nat'l Park Service	84065	McKay, Thomas	D-IV	Tooele City
20528	Jolley, Kevin M.	D-II	Draper City	23168	McLachlan, Steve J.	D-I	ATK Thiokol
23107	Jolley, Max L.	D-I	St George City	23169	Meier, Brice A.	D-IV, T-IV	Metropolitan WD of SL
22192	Jones, Joshua L.	D-I	Tooele Army Depot	20534	Mellor, Brandon B.	D-I	Water Specialist
23108	Jones, Kirt R.	T-II	Energy West-Deer Creek	20041	Micheli, Donald A.	D-S	Capitol Reef Nat'l Park
23528	Jorgensen, Voneene J	D-II	Bear River WCD	94539	Miller, A. Lynn	D-III	Logan City
21535	Judkins, Kevin D.	D-IV	Ogden City	23532	Miller, David W.	D-IV	Utah State University
92129	Juggert, Bill	D-IV	Provo City	95131	Mitchell, Robbie D.	D-IV	Cedar City
93140	Kearl, Teddy D.	D-IV	Layton City	99152	Mitchell, Ronald	T-IV	Central Utah WCD
89515	Keers, Peter T.	D-IV	White City	23124	Mitton, Kurt K.	D-IV	Water Specialist
88118	Kegel, William B.	D-IV, T-IV	Water Specialist	97550	Moffitt, Jarod S.	D-IV	Jordan Valley WCD
86643	Kendall, Dennis K.	D-IV	Lindon City	20536	Mondragon, Ray	D-IV	Magna Water Company
97141	Kennedy, Glen R.	D-IV, T-IV	South Jordan City	23533	Montague, Bryan	D-I	Metropolitan WD of SL
91514	Key, William D.	D-I, T-I	Canyonlands Nat'l Park	23125	Montgomery, Marc	T-IV	Weber Basin WCD
23529	Kimball, Darek O.	D-IV	Water Specialist	22023	Montoya, Gilbert A.	D-II	Pinon Forest SSD
00007	Kimball, Richard J.	T-IV	Metropolitan WD of SL	97149	Moon, Lee H.	D-II	East Duchesne Culinary
85014	King, Jeffrey L.	T-IV	Jordan Valley WCD	20043	Moon, Steven M.	D-S	Spring Lake
88139	King, Karl R.	D-III	Clinton City	84352	Moore, Douglas V.	D-III	Coalville City
23050	King, Valene	D-S	Aspen Ranch	87622	Morgan, Danny Joe	D-IV, T-IV	West Jordan City
23110	Kirkland, Dent R.	D-II	Delta City	88111	Morzelewski, David	D-III, T-IV	Bountiful City
95525	Klotz, Kirk N.	D-IV	St George City	87780	Moss, David H.	T-IV	Bountiful City
23051	Kmetzsch, Greg R.	D-I	Alpine City	91515	Mott, Merlin L.	D-I	Dinosaur Nat'l Monument
86677	Knop, Michael E.	T-IV	Castle Valley SSD	94540	Motte, Gary R.	D-II	Wellington City
20109	Knouse, William R.	D-IV	Water Specialist	00708	Moulton, Jeffery W.	D-IV	Jordan Valley WCD
00638	Kofford, Danny T.	T-IV	Price River WID	20537	Mower, Ben L.	D-II	Ballard Water ID
97142	Kohler, Ronnie J.	D-IV	Park City	97150	Muir, Stephanie	D-II	Logan City
23052	Korpi, Colin E.	D-I	Angell Spring	23534	Munson, Zane W.	D-IV	Granger-Hunter ID
86588	Kresser, Robert C.	D-III	Pleasant Grove City	20538	Munsterman, David	D-II	Santa Clara City
94529	Kubacki, Steve A.	T-IV	Water Specialist	23056	Murn, Richard A.	D-S	Zion View Mutual Water
23112	Lake, David L.	D-S	Cross Hollow Hills	20119	Musselman, Ben	T-II	Monticello City
23530	Langan, Patrick F.	D-I	Tooele City	23057	Nelson, Charlotte E.	D-S	Beaver Dam Water Co
20110	Larkin, Darrin	D-S	Water Specialist	23058	Nelson, Trevor B.	D-II	Brigham City
84053	Larsen, E. Fred	D-IV	Metropolitan WD of SL	23171	Nield, Naylene M.	D-I	Meadow Ranches HOA
20530	Larsen, Trevor J.	D-IV	Sandy City	86353	Nielsen, Casey R.	D-IV, T-IV	Water Specialist
87758	Larson, Mark L.	D-III	Kearns ID	23535	Nielsen, Mark R.	D-IV	Logan City
22138	Lassen, Erick S.	D-I	Glen Canyon SSD	99157	Nielsen, Ronald B.	D-IV	Central Utah WCD
23113	Lawrence, Brad J.	D-II	Mapleton City	22529	Nielsen, Ronald P.	D-IV	Riverton City
87822	Lawrence, Daniel J.	D-IV	North Ogden City	96523	Nielson, Paul D.	T-III	Brighton LDS Camp
23114	Lee, Nathan H.	D-II	Brigham City	93533	Oman, Kirk G.	T-IV	Jordan Valley WCD
23115	Lee, Scott C.	D-I	West Jordan City	99161	Ott, Paul D.	D-IV	Salt Lake City
94143	LeFevre, Jed K.	T-IV	Deseret Power	20540	Ovard, Andrew D.	D-IV	Granger-Hunter ID
23053	Leigh, Christopher G	D-I	Brian Head Town	86624	Owens, David V.	D-III	Panguitch City
22019	Leslie, Darrell	T-I	HAFB-Lakeside Range	97152	Owens, Marie E.	T-IV	Metropolitan WD of SL
23116	Lewis, Robert A.	D-IV	Water Specialist	97153	Page, Allan J.	D-IV	Washington Terrace City
89120	Lofley, Blane D.	D-IV	Castle Dale SSD	94154	Palmer, Jay J.	D-IV	South Ogden City
89121	Lofley, Keith	T-III	Castle Dale SSD	97554	Parduhn, Justin B.	D-III	Highland City
88519	Love, William L.	D-IV	Jordan Valley WCD	94157	Paterakis, Randy L.	D-IV	Clearfield City
20036	Ludvigson, Curtis K.	D-S	Water Specialist	22531	Paulson, Trevor B.	T-IV	Kennecott Utah Copper
97543	Lund, Scott M.	D-II	Water Specialist	20126	Pay, Allen R.	D-II	Mona City
23054	Lunt, Rodney B.	D-IV	Ogden City	94158	Payne, Pat K.	D-III	Richfield City
21539	Lutz, Robert L.	D-IV	Kearns ID	23537	Payne, Ronald D.	D-IV	Metropolitan WD of SL
23167	Lyman, Jeff M.	D-I	Brush Resources	97555	Peay, David L.	D-IV	Spanish Fork City

Cert. Number	Operator Name	Certificate/Grade Level	Water System	Cert. Number	Operator Name	Certificate/Grade Level	Water System
99162	Pedersen, Rex M., Jr.	T-IV	Jordanelle SSD	84032	Smith, Verl Arnold	D-IV	Morgan City
20127	Perkins, Brett D.	D-IV	Layton City	91140	Snowball, David M.	D-IV	Fruit Heights City
96143	Persico, Mark C.	T-IV	Hill Air Force Base	20138	Snyder, Kim E.	D-III	Timber Lakes Water SSD
91129	Peters, Jonathan	D-IV	Metropolitan WD of SL	94167	Snyder, Richard T.	D-IV	Provo City
86642	Peterson, Don C.	D-IV	Lindon City	94168	Sorensen, Rodney S.	D-IV	Sandy City
97155	Peterson, M. Scott	T-IV	Weber Basin WCD	20549	Sorensen, Shane L.	D-IV	Alpine City
96525	Peterson, Tony D.	T-II	Magna Water Company	23134	Spens, Paul J.	T-IV	Weber Basin WCD
94160	Pew, Franklin Craig	D-III	Nephi City	23068	Stanworth, Travis	D-II	Delta City
88525	Phan, Te Van	T-IV	Jordan Valley WCD	88532	Stevens, Todd	D-IV	Ogden City
23539	Pierce, Paul S.	D-IV	Jordan Valley WCD	89136	St. Jeor, Wallace E.	D-IV	Woods Cross City
20048	Pitcher, John D.	D-S	Cornish Town	20551	Stockdale, Richard A	T-I	Stockton Town
94560	Pollock, Todd N.	T-IV	Weber Basin WCD	86599	Stocking, Steven B.	D-IV, T-IV	Metropolitan WD of SL
94542	Poloskey, Garry T.	D-I	Tooele Army Depot	91519	Stokes, Ray	T-IV	Jordan Valley WCD
22533	Poppleton, Jeremie B	D-IV	Logan City	86645	Stoyanoff, Jack J.	T-I	North Emery Water SSD
23173	Porter, Blaine P.	D-S	Escalante City	22547	Strickland, Fred A.	D-IV	Metropolitan WD of SL
99553	Preece, Abby Jo	T-IV	Weber Basin WCD	99173	Sulser, Kirk L.	T-IV	Timber Lakes SSD
95141	Priest, Bart L.	D-IV	Hill Air Force Base	96152	Sulser, Lynn J.	T-IV	Jordanelle SSD
97157	Pulham, Alan K.	D-I	USDA Ashley Natl Forest	94552	Summers, Thomas S.	D-I	Eden Water Works
23062	Pulsipher, Burton H.	D-II	Wellington City	20140	Swenson, Lloyd A.	D-II	Moab City
23063	Pyne, Roland	D-I	US Magnesium	93134	Tait, Carson D.	D-IV	St George City
23540	Quinn, Raymond L.	D-II	North Emery Water SSD	94172	Tangren, C. Glenn	D-II	Provo City
94195	Quintana, Steve	D-I	Price City	23135	Taylor, Everett W.	D-II	Skyline Mountain SSD
20129	Rackman, Scott	D-III	Cedar Hills City	92164	Taylor, George C.	D-IV	Ogden City
84287	Randall, Randy K.	D-IV, T-IV	Centerville City	94555	Taylor, Gregory V.	D-II	Glen Canyon/Halls
23127	Ransom, Steve W.	D-S	Pioneer Bible Camp	20141	Taylor, Jason W.	D-IV	South Salt Lake City
23541	Reid, Todd	D-IV	Utah State University	97168	Terrell, Linson C.	T-IV	Kearns ID
23129	Rhoads, Fred H.	D-S	NR - Parks & Recreation	97564	Thacker, Roy D.	D-IV	Sandy City
93539	Rhodes, Brad S.	D-II	Kearns ID	20142	Theurer, Brady G.	D-III	Brigham City
99556	Richardson, D. Brent	D-II, T-IV	Price River WID	93135	Thomas, Barry J.	T-I	Stockton Town
91132	Rider, Dennis C.	D-III	Kanab City	23546	Thomas, Joshua C.	T-IV	Jordan Valley WCD
88527	Robinson, Don J.	D-I	NPS - Timpanogos Cave	23547	Thomas, Wayne S.	D-II	Water Specialist
20543	Rochell, Brad L.	D-IV	Ogden City	91521	Thompson, Chris	D-II	Glen Canyon NRA
99182	Rochell, Paul R.	D-IV	West Point City	23071	Thompson, Cody W.	D-IV	Kaysville City
97559	Rogers, Alan A.	D-I	Cove Fort Historic Site	20552	Thompson, Guy W.	D-I	Bryce Canyon Nat'l Park
23542	Rogers, Samuel G.	D-IV	Jordan Valley WCD	97565	Thompson, Reed M.	D-III	Highland City
90130	Rose, Auggie P.	T-IV	Weber Basin WCD	94557	Thorpe, John D.	D-II	Dammeron Valley Water
23130	Rose, John D.	D-I	South Jordan City	95542	Timothy, Tracy K.	D-IV	Jordan Valley WCD
97181	Roundy, Bradley C.	D-II	Mapleton City	23072	Tobin, Bill	D-S	Deseret Land/Livestock
86651	Rueckert, Gale A.	D-IV	South Davis Wtr District	84309	Topham, Kirk	D-II	Zion National Park
97560	Ruiz, Jeff A.	D-IV	Salt Lake City	88535	Tracy, Glenn A.	D-III	Clearfield City
23174	Runyan, Duane J.	D-S	Grouse Creek Water Co	20553	Tripp, Jack W.	D-I	Meadows Ranches HOA
97180	Sabey, James Edd	D-II	Wasatch Co/Center Creek	95151	Trujillo, Jack D.	D-IV	West Jordan City
92147	Sager, Ronald L.	D-III	Washington Terrace City	23136	Tubbs, Kevin H.	D-IV	Roy City
94547	Sagers, Hal L.	T-II	Lakeside Range - HAFB	20554	Turk, Lawrence T.	D-I	Natural Bridges Monume
20132	Sainsbury, Aaron M.	D-IV	South Jordan City	00550	Turpin, David L.	D-III	Payson City
20133	Sawyer, Verl S.	D-I	Orderville Town	23137	Turpin, Eun M.	T-IV	Weber Basin WCD
92518	Schade, Richard J.	D-IV	Price River WID	20555	Van Harn, Paul B.	D-IV	Sandy City
91134	Schmalz, Clay C.	T-IV	Weber Basin WCD	94175	Velasquez, Christine	D-I	Water Specialist
22539	Schnoor, Steve J.	T-IV	Kennecott Utah Copper	21561	Vogrincic, Cory J.	T-IV	Price City
84756	Schofield, Daniel R.	D-III	Gorgoza Mutual Wtr Co	98161	Wadsworth, Dallan J.	D-IV	Hurricane City
97164	Schuler, Daniel L.	D-III	Clearfield City	23138	Wahlstrom, Lee R.	D-IV	Roy City
90131	Scott, Mark P.	D-IV	Orem City	97566	Waite, Michael D.	D-III	Syracuse City
96530	Seamons, Brent N.	D-IV	Mapleton City	23139	Walker, David O.	D-IV	Centerville City
20135	Serrano, Kevin R.	D-II	Salina City	97179	Wall, Troy K.	D-II	Twin Creeks SSD
00723	Shaw, Cary D.	T-IV	Jordan Valley WCD	22554	Walton, Randal M.	D-IV	Central Utah WCD
89134	Shaw, Michael D.	D-IV, T-II	Washington City	87743	Wanlass, Paul J.	D-IV	Jordan Valley WCD
23065	Shelley, Travis	D-I	St George City	23073	Wanlass, Rodney K.	D-II	Monroe City
20547	Shupe, Randy K.	D-IV	North Ogden City	94558	Wardle, Bill L.	D-I	Price City
89519	Simkins, Arlan M.	D-II	Enterprise City	23074	Warner, Randy D.	D-S	Angus Water Company
84061	Simons, Bart	T-IV	Provo City	23140	Waters, Floyd L., Jr.	D-I	Kennecott Utah Copper
97562	Simonsen, Archie M.	D-II	Manti City	99567	Waters, John A.	D-IV	Spanish Fork City
21556	Singleton, Gregory A	D-IV	Kearns ID	91144	Watkins, Clyde R.	D-IV	Water Specialist
21029	Skinner, Judith H.	D-III	East Kanab City	00423	Watson, William	D-IV	Salt Lake City
91137	Slagowski, Stanley	T-I	Ashley National Forest	23548	Watts, Sidney R.	D-S	Mutton Hollow WID
91138	Slaugh, Bryce	T-I	Price City	91145	Webb, Steven L.	D-IV	Taylorville-Bennion ID
84068	Slaymaker, Cheryl A.	D-IV	Water Specialist	23141	Webster, Wade C.	D-IV, T-IV	Jordanelle SSD
20548	Smith, Bryan J.	D-II, T-II	Tridell-LaPoint City	88135	Westlund, Ronald A.	T-II	Intermtn Power Service
94551	Smith, Gerald D.	T-IV	Manila Town	94559	Weyburn, Jeff A.	T-IV	Weber Basin WCD
23132	Smith, Kyle D.	D-S	Casper's Ice Cream	20558	Wheeler, Brad M.	D-III	Clearfield City

Cert. Number	Operator Name	Certificate/Grade Level	Water System
94103	Wheeler, Claudia	T-IV	Metropolitan WD of SL
94180	Whitaker, Norman O.	D-II	West Point City
97175	White, Carrie A.	D-I	South Jordan City
94001	Whitney, Mark W.	T-IV	Water Specialist
22164	Wiley, Steven R.	D-IV	Salt Lake City
88537	Wilhelm, Robert K.	D-III	North Logan City
20059	Wilkinson, Dusty S.	D-S	Annabella Town
97004	Williams, Leo E.	D-IV, T-IV	Mtn Regional Water SSD
90140	Williford, Joe F.	T-IV	Central Utah WCD
94108	Wims, Ernest H.	T-II	Hill Air Force Base
00669	Winters, Mark R.	D-IV	Jordan Valley WCD
97568	Wiscombe, Richard	D-II	Richville Pipeline Co
98543	Wood, Larry D.	D-II	East Carbon City
23552	Woodbury, Daniel K.	D-IV	Sandy City

Cert. Number	Operator Name	Certificate/Grade Level	Water System
97569	Woody, Jeffrey E.	D-IV	Riverdale City
98166	Woolsey, Blake K.	D-IV	Jordan Valley WCD
20060	Worthington, Larry	D-I	Fruitland SSD
93138	Worwood, Jason D.	D-I	Levan Town
20061	Wright, Bill N.	D-S	USDA Fishlake Forest
00621	Wright, Clay D.	D-IV	Price River WID
23075	Wright, John H.	D-I	Oak City
92520	Wright, Kurt A.	T-IV	Water Specialist
97570	Wurster, Michael P.	T-IV	Water Specialist
21569	Wyan, John E.	D-IV	Clinton City
87841	Yates, Don Gerard	D-IV	Central Utah WCD
23553	Young, William M.	D-IV	Logan City
92163	Zaugg, Marvin L.	D-IV	Water Specialist

Calendar available online

Training events calendar for water and wastewater

The Utah Water & Wastewater Training Coalition has assembled a new **Training Events Calendar** for individuals who need to prepare for the State of Utah operator certification exams, and for operators who are required to meet training requirements for certification renewal.

The calendar is available online at:

<http://www.calendarwiz.com/uwwtccal>

AND

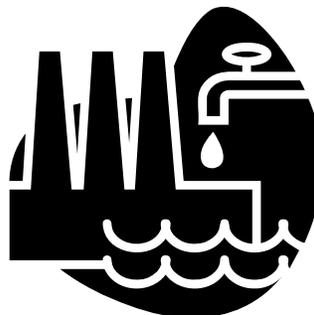
http://www.drinkingwater.utah.gov/for_certified_operators.htm

If you don't have access to a computer, you may request a copy of the calendar by contacting the Division of Drinking Water. Water and wastewater training events are sponsored by the following organizations:

ABPA	American Backflow Prevention Association	(801) 949-5512
AWWA	American Water Works Association (Small Systems)	(801) 536-4216
DDW	Division of Drinking Water	(801) 536-4200
DWQ	Division of Water Quality	(801) 538-6062
RWAU	Rural Water Association of Utah	(801) 756-5123
UVSC	Utah Valley State College	(801) 863-8117
WEAU	Water Environment Association of Utah (PWOD Representative)	(435) 649-7993

If you have questions about the calendar, please feel free to contact the Division of Drinking Water staff.

Division of Drinking Water
 150 North 1950 West
 P.O. Box 144830
 Salt Lake City, Utah 84114-4830
 Telephone: (801) 536-4200
 Fax: (801) 536-4211
 E-mail: jyee@utah.gov
 E-mail: mhand@utah.gov
 E-mail: kdyches@utah.gov
 E-mail: msmoss@utah.gov



Meet the new Division of Drinking Water professionals

By **JULIE COBLEIGH**
Environmental Engineer

I began working for the Division of Drinking Water in the Engineering Section in April 2006. My focal duties include work in the construction assistance program, plan review and sanitary surveys. I am proud to support, through my work, DEQ's mission to safeguard public health and our quality of life by protecting and enhancing the environment.

I graduated from the University of Utah in December 2005 with a Masters in Civil and Environmental Engineering with an emphasis in water resources. My prior education and background is in biology. I have worked for the National Marine Fisheries Services as a fisheries observer aboard commercial fishing vessels in the Bering Sea and more recently for the Summit County Health Department as an Environmental Health Scientist.

I am originally from Washington State and moved to Utah in 1997 to check out Utah's famous powder skiing! In my free time I enjoy skiing, mountain biking and spending time with my husband and 2½ year old daughter. □

By **HEATHER BOBB**
Engineering Office Specialist

I have been with the Division of Drinking Water for just over a year. I am the Office Specialist for the Engineering Section. I have a strong financial background with many years of experience in accounting. I have been integrated into the State Revolving Fund program within Drinking Water and really enjoy the diversity. I have many responsibilities with the program and appreciate the knowledge I have gained in the short time I have been here. I have taken on several financial responsibilities within the SRF program and look forward to learning more.

In my spare time I enjoy reading, watching movies, painting and spending time with my furry, purring "kids" (oh, and my husband, too!!!). I also volunteer with a local animal welfare organization and have held several fundraisers in their honor to help raise money for their cause. I am also a member of the National Wildlife Federation.

As you can see, my passion is to help protect the furry creatures of the world, and do my part in protecting the drinking water of our state. □

By **CAROLYN ESSER**
Administrative Office Specialist

I was born in California and raised all over as government's finest reproductions (Army brat) and came to Utah in 1974. In 1993 I moved to Boise, Idaho, and returned to the Salt Lake valley in 2004.



I have been employed with the Division of Drinking Water for 1¼ years as office specialist. My duties include, but are not limited to, answering phones, processing GRAMA requests, routing mail, and purchasing. I came from the State of Idaho, Central District Health Department, Division of Family Planning, where I worked as their medical receptionist.

I graduated from American Institute of Health Technology in 1998. My many adventures include 2 years in the Army and raising a family. I am married and the mother of 7 children and 14 grand children. In my free time I enjoy camping, fishing, gardening, reading, quilting and family history, as well as volunteering with many different humanitarian assignments. □

By **BRAD HOLDAWAY**
Environmental Scientist

Brad Holdaway joined the Division of Drinking Water on April 23, 2007, as an environmental scientist. His responsibilities include overseeing DBP2 and LT2 Rules, helping out with the ground water rule and source protection, and conducting sanitary surveys.

Brad received his Masters degree at Brigham Young University in Geology. His prior work experience includes four years at Montgomery Watson in hydrogeology. He comes to us from Central Utah Water where he was lead operator of the Utah Valley Treatment Plant and has many years experience in operations. He has also been involved in various ground water consulting projects.

He and his wife have 2 kids who keep life hopping. His hobbies include fishing, traveling, and aviation where he is an accomplished pilot. □

Meet the new DDW professionals (continued)

By MICHAEL MORTENSEN
Environmental Engineer

Michael Mortensen joined the Division of Drinking Water in January 2007 as an environmental engineer. His responsibilities include working with the water treatment team performing plan reviews, sanitary surveys, and fluoridation practices and design.

Michael received his Bachelors degree in Civil Engineering from the University of Utah in 2005. His prior work experiences include three years at the Utah State Lab working as an environmental microbiologist performing analyses on drinking water and a limited time working in the waste water industry.

His hobbies include cycling, sports, camping, hiking, motorcycles, traveling, and culture. □

By MARK HANSEN
Environmental Scientist

I joined the Utah Division of Drinking Water on June 4, 2007, as an Environmental Scientist. Some of my responsibilities include the DBP2 and LT2 surface water treatment rules as well as groundwater and source protection rules. Also sanitary surveys. I worked for Ogden City Water Utility for 22 years at the water treatment plant, nine as an operator and 13 as the plant manager. My responsibilities as a plant manager included a 20 MGD water treatment plant and facilities, and 6 deep-well pump stations.

After getting water on the brain (this is a joke), I needed a break after 22 years at the plant and transferred to Ogden City's Department of Community and Economic Development as the housing project coordinator. I really believed I was getting away from federal regulations by switching jobs. Guess what? More federal regulations. This job involved HUD (U.S. Housing and Urban Development) grants which included a lot of reports and more paperwork. It also involved air quality standards, to which I became acquainted with Mr. Bob Ford and staff at Utah's DEQ working with lead-based paint regulations.

I am thrilled to have the opportunity to work in the water industry again, without being on call 24-7. My wife and I have been married 30 years. We have 8 children, 6 daughters and 2 sons, 4 are married and 1 almost (July 19th); and 6 grandchildren, 4 girls and 2 boys, with 2 more granddaughters on the way in September and November. My hobbies include fishing, snow and water skiing, biking (on hard pavement), outdoor wild life photography, hiking, and discovering Utah history. □

By NAGENDRA DEV
Environmental Engineer

I joined the Division of Drinking Water August 6, 2007, as an Environmental Engineer. I am originally from Nepal - the country of highest peak Mt. Everest and Himalayan Range. My educational and working experience background started from my home country Nepal and ended up in the U.S. via Belgium. I had my Bachelor's Degree in Civil Engineering from Nepal in 1995. I

worked around six years in the Ministry of Water Resources as a Civil Engineer emphasizing on irrigation projects and water supply and sanitation schemes for various districts of my home land. After some time, I got a fellowship to prosecute my Master's Degree in Water Resources in Belgium in 2001 and immediately after graduating, I got a chance to work for a while in hydrologic and Hydraulic Modeling for a water resources project before I started further graduate studies in the University of Utah emphasizing in the field of Environmental and Water Resources Engineering. During the last year, I was with local consultants including Synergy, where I performed works in Land Development focusing on hydraulic modeling, drainage design, water distribution systems and surveying.

My job here in Drinking Water is under the Construction Assistance Section wherein I shall be assigned to work as a project engineer in State Revolving Fund including plan reviews, operating permits being cordially incorporated with the rest of the related concerned colleagues and seniors. My ultimate goal here in Drinking Water is the same as the rest of the members - "Maintain superior drinking water quality based upon water demands, complying Laws and Rules of DDW."

I am a family oriented person and like to spend much time with my family. I am a person who believes that "work is worship" and I have always given top priority to accomplish the assigned work successfully. So far as my hobby is concerned, I like to travel, spend some time with friends hanging around and, most importantly, like to increase my knowledge in the field in which I don't have expertise. □

*For a complete list of
Division of Drinking Water staff,
see the following page inserts:*

- *DDW Program Contact List*
- *DDW Staff Directory*
- *DDW Organization Chart*

Division of Drinking Water

Program Contact List

For general questions, please call (801) 536-4200 or Fax (801) 536-4211

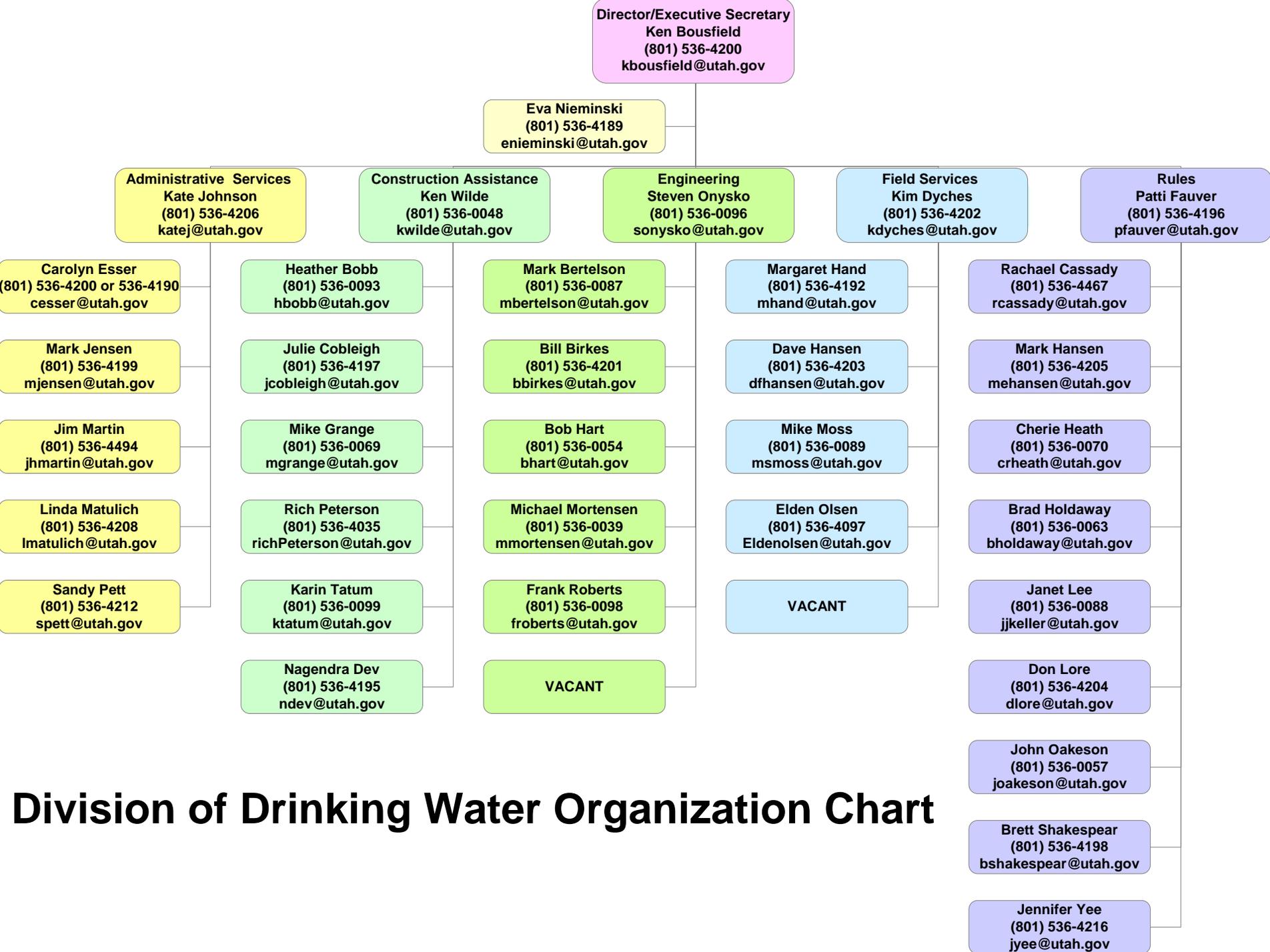
Director	Water Treatment Technical Assistance
1 Ken Bousfield (801) 536-4207	1 Eva Nieminski (801) 536-4189
Administrative Secretary	GRAMA Request/ Records Information Specialist
1 Linda Matulich (801) 536-4208	1 Carolyn Esser (801) 536-4190
Compliance Secretary	Data Entry
1 Jennifer Yee (801) 536-4216	1 Cherie Heath (801) 536-0070
Contract Grant Specialist	Sanitary Survey Scheduling
1 Heather Bobb (801) 536-0093	1 David Hansen (801) 536-4203
2 Sandy Pett (801) 536-4212	
Surface Water Treatment Rules and Disinfection Byproducts Rule	Rules and Public Notification
1 Brad Holdaway (801) 536-0063	1 Janet Lee (801) 536-0088
2 Mark Hansen (801) 536-4205	2 Patti Fauver (801) 536-4196
3 Patti Fauver (801) 536-4196	3 Rachael Cassady (801) 536-4467
Groundwater Rule	Lead and Copper
1 Elden Olsen (801) 536-4097	1 Don Lore (801) 536-4204
2 John Oakeson (801) 536-0057	2 Rachael Cassady (801) 536-4467
3 Kim Dyches (801) 536-4202	3 Patti Fauver (801) 536-4196
4 Mark Hansen (801) 536-4205	
Total Coliform Rule (TCR)	Organics and Inorganics
1 Janet Lee (801) 536-0088	1 Rachael Cassady (801) 536-4467
2 Rachael Cassady (801) 536-4467	2 Patti Fauver (801) 536-4196
3 Patti Fauver (801) 536-4196	3 Don Lore (801) 536-4204
Radionuclides and Radon	Consumer Confidence Reports
1 Rachael Cassady (801) 536-4467	1 Brett Shakespear (801) 536-4198
2 Patti Fauver (801) 536-4196	2 Rachael Cassady (801) 536-4467
3 New Scientist	3 Jennifer Yee (801) 536-4216
Arsenic Rule	Division SDWIS Database
1 Don Lore (801) 536-4204	1 Brett Shakespear (801) 536-4198
2 Patti Fauver (801) 536-4196	2 Mark Jensen (801) 536-4199
Cross Connection	Operator Certification
1 Mike Moss (801) 536-0089	1 Kim Dyches (801) 536-4202
2 John Oakeson (801) 536-0057	2 Margaret Hand (801) 536-4192
3 Kim Dyches (801) 536-4202	3 John Oakeson (801) 536-0057
4 Elden Olsen (801) 536-4097	4 Mark Hansen (801) 536-4205

Sanitary Survey Issues		Emergency Preparedness and Vulnerability Assessments	
1	John Oakeson (801) 536-0057	1	Kim Dyches (801) 536-4202
2	Elden Olsen (801) 536-4097	2	John Oakeson (801) 536-0057
3	Kim Dyches (801) 536-4202	3	Elden Olsen (801) 536-4097
Federal SRF Program		State SRF Program	
1	Karin Tatum (801) 536-0099	1	Rich Peterson (801) 536-4035
2	Julie Cobleigh (801) 536-4197	2	Karin Tatum (801) 536-0099
3	Michael Grange (801) 536-0069	3	Nagendra Dev (801) 536-4195
4	Nagendra Dev (801) 536-4195	4	Heather Bobb (801) 536-0093
5	Heather Bobb (801) 536-0093	5	Sandy Pett (801) 536-4212
6	Sandy Pett (801) 536-4212	6	Ken Wilde (801) 536-0048
7	Ken Wilde (801) 536-0048		
STAG Grant/Loan Program		Rule Writing	
1	Bob Hart (801) 536-0054	1	Bill Birkes (801) 536-4201
2	Ken Wilde (801) 536-0048	2	Steve Onysko (801) 536-0096
3	Karin Tatum (801) 536-0099	3	Mark Hansen (801) 536-4205
Division Web Page		Community Impact Board	
1	Rich Peterson (801) 536-4035	1	Karin Tatum (801) 536-0099
2	Mark Jensen (801) 536-4199		
Plan Reviews/Operating Permits & New Sources & Systems		Water Treatment/Source Classification	
1	Steve Onysko (801) 536-0096	1	Frank Roberts (801) 536-0098
2	Bill Birkes (801) 536-4201	2	Steve Onysko (801) 536-0096
3	Bob Hart (801) 536-0054	3	Bob Hart (801) 536-0054
4	Mark Bertelson (801) 536-0087	4	Mark Bertelson (801) 536-0087
Capacity Development/Assessment		DRU Database	
1	Steve Onysko (801) 536-0096	1	Mark Jensen (801) 536-4199
2	Frank Roberts (801) 536-0098	2	Rich Peterson (801) 536-4035
Source Protection/PERs			
1	Jim Martin (801) 536-4494		
2	Mark Jensen (801) 536-4199		
3	Kate Johnson (801) 536-4206		
Emergencies: In an emergency, you may contact Division of Drinking Water personnel through the following phone numbers:			
During normal working hours:		801-536-4200	
After hours:		801-536-4123 (Utah DEQ Emergency Response) 801-560-8456 (Utah Division of Drinking Water cell phone)	

Division of Drinking Water Staff

Last Name	First Name	Telephone Number	E-mail Address
Bertelson	Mark	(801) 536-0087	mbertelson@utah.gov
Birkes	Bill	(801) 536-4201	bbirkes@utah.gov
Bobb	Heather	(801) 536-0093	hbobb@utah.gov
Bousfield	Ken	(801) 536-4207	kbousfield@utah.gov
Cassady	Rachael	(801) 536-4467	rcassady@utah.gov
Cobleigh	Julie	(801) 536-4197	jcobleigh@utah.gov
Dev	Nagendra	(801) 536-4195	ndev@utah.gov
Dyches	Kim	(801) 536-4202	kdyches@utah.gov
Esser	Carolyn	(801) 536-4190	cesser@utah.gov
Fauver	Patti	(801) 536-4196	pfauver@utah.gov
Grange	Mike	(801) 536-0069	mgrange@utah.gov
Hand	Margaret	(801) 536-4192	mhand@utah.gov
Hansen	Dave	(801) 536-4203	dfhansen@utah.gov
Hansen	Mark	(801) 536-4205	mhansen@utah.gov
Hart	Bob	(801) 536-0054	bhart@utah.gov
Heath	Cherie	(801) 536-0070	crheath@utah.gov
Holdaway	Brad	(801) 536-0063	bkholdaway@utah.gov
Jensen	Mark	(801) 536-4199	mjensen@utah.gov
Johnson	Kate	(801) 536-4206	katej@utah.gov
Lee	Janet	(801) 536-0088	jjkeller@utah.gov
Lore	Don	(801) 536-4204	dlore@utah.gov
Martin	Jim	(801) 536-4494	jhmartin@utah.gov
Matulich	Linda	(801) 536-4208	lmatulich@utah.gov
Mortensen	Michael	(801) 536-0036	mmortensen@utah.gov
Moss	Michael	(801) 536-0089	msmoss@utah.gov
Nieminski	Eva	(801) 536-4189	enieminski@utah.gov
Oakeson	John	(801) 536-0057	joakeson@utah.gov
Olsen	Elden	(801) 536-4097	eldenolsen@utah.gov
Onysko	Steven	(801) 536-0096	sonysko@utah.gov
Peterson	Rich	(801) 536-4035	richpeterson@utah.gov
Pett	Sandy	(801) 536-4212	spett@utah.gov
Roberts	Frank	(801) 536-0098	froberts@utah.gov
Shakespear	Brett	(801) 536-4198	bshakespear@utah.gov
Tatum	Karin	(801) 536-0099	ktatum@utah.gov
Wilde	Ken	(801) 536-0048	kwilde@utah.gov
Yee	Jennifer	(801) 536-4216	jyee@utah.gov

Division of Drinking Water
150 North 1950 West
P.O. Box 144830
Salt Lake City, Utah 84114-4830
Main Telephone: (801) 536-4200
Fax Number: (801) 536-4211
<http://drinkingwater.utah.gov>



Director/Executive Secretary
Ken Bousfield
 (801) 536-4200
 kbousfield@utah.gov

Eva Nieminski
 (801) 536-4189
 enieminski@utah.gov

Administrative Services
Kate Johnson
 (801) 536-4206
 katej@utah.gov

Construction Assistance
Ken Wilde
 (801) 536-0048
 kwilde@utah.gov

Engineering
Steven Onysko
 (801) 536-0096
 sonysko@utah.gov

Field Services
Kim Dyches
 (801) 536-4202
 kdyches@utah.gov

Rules
Patti Fauver
 (801) 536-4196
 pfauver@utah.gov

Carolyn Esser
 (801) 536-4200 or 536-4190
 cesser@utah.gov

Heather Bobb
 (801) 536-0093
 hbobb@utah.gov

Mark Bertelson
 (801) 536-0087
 mbertelson@utah.gov

Margaret Hand
 (801) 536-4192
 mhand@utah.gov

Rachael Cassady
 (801) 536-4467
 rcassady@utah.gov

Mark Jensen
 (801) 536-4199
 mjensen@utah.gov

Julie Cobleigh
 (801) 536-4197
 jcobleigh@utah.gov

Bill Birkes
 (801) 536-4201
 bbirkes@utah.gov

Dave Hansen
 (801) 536-4203
 dfhansen@utah.gov

Mark Hansen
 (801) 536-4205
 mehansen@utah.gov

Jim Martin
 (801) 536-4494
 jhmartin@utah.gov

Mike Grange
 (801) 536-0069
 mgrange@utah.gov

Bob Hart
 (801) 536-0054
 bhart@utah.gov

Mike Moss
 (801) 536-0089
 msmoss@utah.gov

Cherie Heath
 (801) 536-0070
 crheath@utah.gov

Linda Matulich
 (801) 536-4208
 lmatulich@utah.gov

Rich Peterson
 (801) 536-4035
 richPeterson@utah.gov

Michael Mortensen
 (801) 536-0039
 mmortensen@utah.gov

Elden Olsen
 (801) 536-4097
 Eldenolsen@utah.gov

Brad Holdaway
 (801) 536-0063
 bholdaway@utah.gov

Sandy Pett
 (801) 536-4212
 spett@utah.gov

Karin Tatum
 (801) 536-0099
 ktatum@utah.gov

Frank Roberts
 (801) 536-0098
 froberts@utah.gov

VACANT

Janet Lee
 (801) 536-0088
 jjkeller@utah.gov

Nagendra Dev
 (801) 536-4195
 ndev@utah.gov

VACANT

Don Lore
 (801) 536-4204
 dlore@utah.gov

John Oakeson
 (801) 536-0057
 joakeson@utah.gov

Brett Shakespear
 (801) 536-4198
 bshakespear@utah.gov

Jennifer Yee
 (801) 536-4216
 jyee@utah.gov

Division of Drinking Water Organization Chart

2007-2008 Water Operator Certification Exams

Attention all water system operators and managers, and anyone seeking employment in the water industry. Utah's Department of Environmental Quality, Division of Drinking Water (DDW), is offering operator certification exams for water distribution and treatment systems. All grade levels, including small systems, will be offered.

HOW TO REGISTER FOR AN EXAM - Fill out the exam application completely and mail it, along with the \$100.00 fee, to: Division of Drinking Water, Operator Certification Program, 150 North 1950 West, P.O. Box 144830, Salt Lake City, Utah 84114-4830. Make the check or money order payable to the Division of Drinking Water or DDW.

Examination Fee . . . \$100.00

The exam application and fee must arrive at the DDW office on or before the deadline listed on the announcement. Applications and fees received after the

deadline will not be accepted. A confirmation letter will be mailed to all applicants. If you do not receive your confirmation letter, please contact the Operator Certification Program staff immediately.

PAY EXAM FEE ONLINE - You may pay the exam fee online at <http://www.drinkingwater.utah.gov> (go to the DDW Shopping Cart). The date listed on your credit card or E-check receipt will be considered your actual application submittal date. Important note: If you pay online on or before the deadline, please mail or fax a copy of your completed application and receipt as soon as possible to the DDW office so that your name can be added to the exam reservation list. The DDW fax number is 801-536-4211.

EXAM CANCELLATION POLICY - Only one cancellation, per applicant, is allowed. An applicant making a written or phone-in cancellation by 9:00 a.m. on

the day of the exam may request a refund of the exam fee or take the next scheduled exam. If the applicant should also cancel the next scheduled exam, the exam fee will be forfeited.

STUDY GUIDES AND REFRESHER COURSES - Certification exam study guides and pre-exam refresher courses are offered throughout the year by several organizations (see page 15 for list of organizations). [Because of the wide range of knowledge needed for all exams, you should go to the class prepared to take the exam. The training will be beneficial to everyone, but should be used more as a refresher course for your pre-study preparation.](#)

IF YOU HAVE QUESTIONS or need assistance, feel free to contact the Operator Certification Program staff: Kim Dyches or Margaret Hand at telephone (801) 536-4200, or e-mail kdyches@utah.gov or mhand@utah.gov.

2007
April 13, 2007 , at 16 Utah locations. See enclosed exam application for list of cities. Application deadline: March 23, 2007
November 9, 2007 , at 16 Utah locations. See enclosed exam application for list of cities. Application deadline: October 19, 2007
2008
April 11, 2008 , at 16 Utah locations. See enclosed exam application for list of cities. Application deadline: March 21, 2008
November 7, 2008 , at 16 Utah locations. See enclosed exam application for list of cities. Application deadline: October 17, 2008

UTAH WATER OPERATOR CERTIFICATION PROGRAM EXAMINATION APPLICATION



Click here to
pay online

Instructions:

To help us determine your operator status (restricted or non-restricted), please complete **all** sections. All correspondence will be mailed to you at the home address you provide on this page.

The water operator exam fee is \$100.00. Applications submitted without a fee will not be processed. The application and fee must arrive at the Division of Drinking Water office by the deadline listed in the exam announcement. Applications received after the deadline will not be accepted. If you have questions or concerns, please call the Operator Certification Program staff at (801) 536-4200.

Make check or money order payable to the "Division of Drinking Water." Do not send cash through the mail. Applications may be hand-carried to the Division of Drinking Water offices at 150 North 1950 West, 2nd floor, P.O. Box 144830, Salt Lake City, Utah 84114-4830.

You may pay the fee online at <http://www.drinkingwater.utah.gov> (go to DDW Shopping Cart). The date listed on your credit card or E-Check receipt will be considered your actual application submittal date. **Important:** If you pay online on or before the deadline, mail or fax your completed application and your receipt to the DDW office so that your name can be added to the exam reservation list. DDW fax number: (801) 536-4211.

Please print clearly or type

Today's Date _____

Applicant's name _____ Birth date _____

Certification # (5 digits) _____ E-mail address _____

Home address or PO Box # _____

City _____ State _____ Zip code _____ Home phone _____

Employer or Water System name _____ Fax # _____

Address _____ Work phone _____

City _____ State _____ Zip code _____

CIRCLE GRADE LEVEL DESIRED

Water Distribution Grade Levels
(includes chlorination)

Water Treatment Grade Levels
(complete treatment of surface water)

SS 1 2 3 4

1 2 3 4

Definitions: **SS** - small system exam (for water systems serving a population of 25-500); **GRADE 1** (pop. <1,500); **GRADE 2** (pop. 1,501 to 5,000); **GRADE 3** (pop. 5,001 to 20,000); **GRADE 4** (pop. >20,000).

Exam date (month/day/year): _____

CIRCLE EXAM LOCATION DESIRED

(In the event of a location change, you will be notified by confirmation letter.)

Environmental Health Building
85 East 1800 North
Logan, Utah 84321

Southeast Utah District Health Dept.
117 S. Main Street
Monticello, Utah 84535

Utah County Health Dept.
151 S. University Ave (Suite 2600)
Provo, Utah 84601

Bear River District Health Dept.
817 West 950 South (use south building)
Brigham City, Utah 84302

Southeast Utah District Health Dept.
28 South 1st East
Price, Utah 84501

State and County Building
152 East 100 North
Vernal, Utah 84078

Central Utah Public Health Dept.
146 North Main
Nephi, Utah 84648

Utah State University Extension Office
585 North Main, Suite 5
Cedar City, Utah 84720

Wasatch City-County Health Dept.
55 South 500 East
Heber City, Utah 84032

Central Utah Public Health Dept.
70 Westview Drive
Richfield, Utah 84701

Southwest Utah Public Health Department
620 South 400 East, Suite 400
St. George, Utah 84770

Weber-Morgan District Health Dept.
477 23rd St.
Ogden, Utah 84401

Davis County Memorial Court House
28 E. State Street (Room 230)
Farmington, Utah 84025

Sheldon D. Richins Building
6505 N. Landmark Drive
Park City, Utah 84098

American Water Works Association
AWWA
Conference Site

Quality Inn
1659 W. North Temple
Salt Lake City, Utah 84116

Tooele County Health Dept.
151 N. Main Street
Tooele, Utah 84074

Rural Water Association of Utah
RWAU
Conference Site

In compliance with the Americans with Disabilities Act, individuals with special needs (including auxiliary communicative aids and services) should contact Charlene Lamph, Office of Human Resources at 536-4413 (TDD 536-4414), at least five working days prior to the scheduled meeting/hearing.

CURRENT EMPLOYMENT

Utah water system name _____ Utah water system number _____

Your current job title _____ Total years with this employer _____

Total years as DRC* operator with this employer _____ Are you a DRC* operator now? Yes ___ No ___

Duties of current position:

*DRC (Direct Responsible Charge) - DRC means active daily on-site charge and performance of operation duties. The person in direct responsible charge is generally an individual who independently makes decisions during normal operation which can affect the sanitary quality, safety, and adequacy of water delivered to customers. In cases where only one operator is employed by the system, this operator shall be considered to be in direct responsible charge. In cases where more than one operator is employed, more than one operator may be in direct responsible charge.

If you want credit as a Direct Responsible Charge (DRC) operator, fill out this section and have your supervisor sign below:

“Mr / Ms _____ has _____ total years of water system experience and _____ years as a _____ Direct
(Treatment and/or Distribution)

Responsible Charge Operator with the _____
water system (Utah water system # _____).”

Supervisor's signature _____ Date _____

PAST EMPLOYMENT

Experience gained by the operator as a Direct Responsible Charge operator, which is to be considered for use in the determination of restricted vs. unrestricted status, must be in the discipline of Treatment or Distribution of the certificate desired.

After completing this section, please fill out “Previous Water Industry Work Experience” on the next page.

“In **addition** to the experience noted above, I have _____ total years experience in _____
(Treatment and/or Distribution) and _____ total years as a DRC Operator

in other drinking water systems. I understand that all information may be verified at any time by the Operator Certification Program staff.”

Operator's signature _____ Date _____

EDUCATION

What is the highest level of education you have completed?

GRADE SCHOOL _____ HIGH SCHOOL _____

COLLEGE GRADUATE:

___ Associate (2-year degree)	Major _____	Year _____
___ Bachelor (4-year degree)	Major _____	Year _____
___ Master (Post Graduate)	Major _____	Year _____
___ Doctorate	Major _____	Year _____

PREVIOUS WATER INDUSTRY WORK EXPERIENCE

Employer's Name and Address:

Your job title:

Total years with this employer:

Total years as Direct Responsible Charge operator:

Job duties:

Supervisor's name:

Employer's Name and Address:

Your job title:

Total years with this employer:

Total years as Direct Responsible Charge operator:

Job duties:

Supervisor's name:

HOW TO REGISTER FOR THE EXAM

