

Drinking Water Board Packet

January 9, 2015

Agenda



State of Utah

GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

Department of Environmental Quality

Amanda Smith
Executive Director

DIVISION OF DRINKING WATER
Kenneth H. Bousfield, P.E.
Director

Drinking Water Board
Paul Hansen, P.E., *Chair*
Betty Naylor, *Vice-Chair*
Brett Chynoweth
Tage Flint
Roger G. Fridal
Brad Johnson
David L. Sakrison
David Stevens, Ph.D.
Mark Stevens, M.D.
Kenneth H. Bousfield, P.E.
Executive Secretary

DRINKING WATER BOARD MEETING January 9, 2015 - 1:00 pm Multi Agency State Office Building - Room 1015 195 North 1950 West Salt Lake City, Utah 84116

Ken Bousfield's Cell Phone #: (801) 674-2557

1. Call to Order – Chairman Hansen
2. Roll Call – Ken Bousfield
3. Introductions – Chairman Hansen
4. Approval of the Minutes:
 - A. November 7, 2014
 - B. December 1, 2014
5. Financial Assistance Committee Report
 - A. Status Report – Michael Grange
 - B. Project Priority List – Michael Grange
 - C. SRF Applications
 - i. STATE:
 - a) Grand Water and Sewer Service Agency – Jesse Johnson
 - b) Dagget County/Dutch John – Jesse Johnson
 - c) Ticaboo Utility Improvement District – Gary Kobzeff
 - ii. FEDERAL:
 - a) West Erda Improvement District – Julie Cobleigh
 - iii. OTHER:
6. Authorization to Initiate Rule Revision – R309-500 – Facility Design and Operation: Plan Review, Operation and Maintenance Requirements – Bernie Clark
7. Intent to Request Authorization to Initiate Rule Revision – R309-510- Facility Design and Operation: Minimum Sizing Requirements – Ying Ying Macauley

8. Drinking Water Energy Efficiency Initiative
 - A. Documents and Presentations – Michael Grange
 - B. Drinking Water Boards’ Direction on Energy Efficiency Initiative Incentives
9. Rural Water Association of Utah Development Specialist Contract Renewal – Ken Bousfield
10. Rural Water Association Report – Dale Pierson
11. Chairman’s Report
12. Directors Report
 - A. Three Work Groups Organized
 - B. Water & Energy Nexus Summit
 - C. Rural Water Association of Utah Annual Conference
13. Next Board Meeting:
 - Date: Thursday, February 26, 2015
 - Time: 2:00 pm
 - Place: The Dixie Convention Center
Garden Room
1835 Convention Center Drive
St. George, Utah 84790
14. Other
15. Adjourn

In compliance with the American Disabilities Act, individuals with special needs (including auxiliary communicative aids and services) should contact Dana Powers, Office of Human Resources, at: (801) 499-2117, TDD (801) 536-4414, at least five working days prior to the scheduled meeting.

Agenda Item

4(A)



State of Utah

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DRINKING WATER BOARD MEETING
November 7, 2014 - 1:00 pm
Multi Agency State Office Building - Room 1015
195 North 1950 West
Salt Lake City, Utah 84116

DRAFT MINUTES

1. **Call to Order – Chairman Hansen**

Paul Hansen, Board Chairman, called the meeting to order at 1:00 pm.

2. **Roll Call – Ken Bousfield**

Board members present: Paul Hansen, Betty Naylor, Brett Chynoweth, Tage Flint, Roger Fridal, Brad Johnson, David Sakrison, David Stevens, and Mark Stevens.

Division Staff present: Ken Bousfield, Michael Grange, Heather Bobb, Ying Ying Macauley, Julie Cobleigh, John Oakeson, Jesse Johnson, Gary Kobzeff, and Marianne Booth.

3. **Introductions – Chairman Hansen**

In the interest of time, this item was skipped.

4. **Approval of the Minutes:**

- A. **August 27, 2014**
- B. **October 14, 2014**

- David Sakrison moved to approve the minutes. Roger Fridal seconded. The motion was carried unanimously by the Board.

5. **Financial Assistance Committee Report**

A. Status Report – Michael Grange

Michael Grange, Construction Assistance Section Manager with the Division of Drinking Water (DDW, the Division), reported that as of September 30, 2014, there was \$661,000 available in the state loan fund and that the Division is expecting roughly another \$6 million to come into the fund by November of 2015; for a total of \$6.3 million to be available for projects. He went on to report

on that staff is working with Trenton Town, which was authorized in May, but has not yet closed on their funding loan.

Michael also reported that there is currently just over \$32 million in the federal loan fund and that the Division is expecting roughly another \$15 million, based on the preliminary report for the 2015 SRF Grant from Congress through the EPA; though that will not be firm until January of 2015. He then reported that Division staff is currently working with 8 systems that have been authorized for funding but have not yet closed on their loans, as well as several other projects that are still in the planning stages.

Michael also informed the board that Division staff closed on the Duchesne County Water Conservancy District's Victory Pipeline Project that was initially authorized by the Drinking Water Board (DWB, the Board) back in 2009, and they are now in construction on Phase 1 of the project. He also informed the Board that planning advances have also been authorized for Huntsville Town, Lyman Water System, and Selina City for master plans.

B. Project Priority List – Michael Grange

Michael Grange proposed that 3 new projects be added to the project priority list. The first being West Erda Improvement District, with 82.6 points, consisting of a connection to Erda Acres Water Company as well as distribution system upgrades. The second is Ticaboo Utility Improvement District, with 18.5 points, consisting of a replacement of a well pump and pump house. And the third is Dutch John, with 18.4 points, consisting of a tank repair, water meter installation, and treatment. The Financial Assistance Committee (FAC) recommends that the Board approve the updated project priority list.

- David Stevens moved to approve the updated project priority list. Mark Stevens seconded. The motion was carried unanimously by the Board.

C. SRF Applications

i. STATE:

a) Ticaboo Special Service District – Gary Kobzeff

Gary Kobzeff, Environmental Engineer with DDW, informed the Board that Ticaboo Utility Improvement District (Ticaboo) is requesting \$700,000 in assistance to replace the pump in well #1, the pump house, install new solar panel arrays to provide power for their #1 and #2 wells, and construct a fence around the existing storage reservoir. Ticaboo has a local MAGI of \$19,243 or 49% of the State MAGI. Their current water bill is \$39.32 which is 2.45% of the local MAGI. The proposed financial assistance would increase their water bill to \$39.49, or 2.15% of the local MAGI. The FAC recommends that the Board authorize a loan of \$560,000 at 0% interest for 30 years with \$140,000 in grant.

Chip Shortreed, the Chairman of the Ticaboo Utility Improvement District, spoke to the Board, informing them that Ticaboo is a small, remote community that is constantly being challenged with the ability to provide utilities to its residents; and since taking over as Chairman 4 years ago, he has been able to reduce the water system's IPS deficiency points from 156 to 1, which will also be removed with the completion of the current project up for authorization. He then stated that since the application submittal, the water system has been able to more accurately determine their pumping costs and now show those costs exceed the total annual revenue of the water system, thus keeping them from saving for repairs and replacements, hiring part time employees, or the ability to reduce the water rate. Chip then requested that the Board consider Ticaboo's request for a 50% grant.

There was discussion between the Board, Division staff, and the representatives for Ticaboo as to the presence of a certified water operator, whether hardship was considered in the project analysis, the actual number of full time residents, and whether or not this should be tabled to be re-evaluated and brought back before the Board at a later date.

- Paul Hansen moved to table this item until staff has been able to review new information, re-present it to the FAC, and then bring it back before the Board at a later date. Tage Flint seconded. The motion was carried unanimously by the Board.

ii. FEDERAL:

a) Central Iron County Water Conservancy District – Julie Cobleigh

Betty Naylor, Board Vice-Chair, asked that the representatives for Central Iron County Water Conservancy District (CICWCD) introduce themselves. They were Paul Monroe, General Manager for CICWCD, Kelly Crane, and Curtis Nielson.

Julie Cobleigh, Environmental Engineer with DDW, began by informing the Board that CICWCD is requesting \$100,000 to conduct an aquifer balance study which is expected to cost \$200,000. She then went onto state that CICWCD has been experiencing declining water levels in their main aquifer and a mounding of water in the northern end of the Cedar Basin; and this study would consist of drilling test wells and conducting test pumping in order to determine appropriate locations to develop additional sources. CICWCD's local MAGI is \$30,540 or 78% of the state MAGI. Their current water bill is approximately \$107 which is 4.2% of the local MAGI. The proposed funding would increase their water bill to \$114 which is 4.49% of the local MAGI. The FAC recommends that the Board authorize a \$100,000 planning loan at 0% interest for 5 years with 50% in principal forgiveness.

Paul Monroe showed the Board a large map of the area outlining where the current aquifer is located, where the mounding is being seen, and where the proposed test drilling would be located. He also informed the Board that they are one of the communities that are expected to double by the year 2050, so there is going to be an increase in demand and CICWCD is working to plan for that eventuality by doing this planning study, working with the State engineer on a pipeline project to bring in water from the west desert, aquifer re-charge out of Cole Creek, and doing ground water management plans. Paul then requested that the Board consider 100% in principal forgiveness as CICWCD will be using their own funds for the additional \$100,000 of the \$200,000 aquifer balance study.

There was discussion between the Board, Division staff and CICWCD representatives as to water rights, whether the test wells will later be utilized as production wells, the over-appropriation of the valley, the presence of ground subsidence, and the possibility of a pipeline coming in from the west desert in the next 15 years.

- Paul Hansen moved to authorize a \$100,000 planning loan at 0% interest for 5 years with \$50,000 in principal forgiveness. Roger Fridal seconded. The motion was carried unanimously by the Board.

b) Dagget County / Dutch John – Jesse Johnson

Betty Naylor asked that the representatives for Dagget County introduce themselves. They were Warren Blanchard, County Commissioner, and Brett Reynolds, County Engineer.

Jesse Johnson, Environmental Engineer with DDW, informed the Board that Dagget County is requesting \$362,000 to repair storage tanks, upgrade their disinfection system within their treatment plant, replace filter media, and add water meters within the Dutch John water system. Jesse then gave some background on the Dutch John water system, stating that up until approximately 10 years ago, the system was run by the Bureau of Reclamation, and since time Dagget County has been working on upgrades and improvements to the system. Dutch John's local MAGI is \$43,604 or 111% of the state MAGI. Their current water bill is approximately \$56.01, which is 1.54% of the local MAGI. The proposed funding would increase their water bill to \$75.58, or 2.09% of the local MAGI. The FAC looked at 3 funding options and recommends that the Board authorize a \$288,000 loan at 1.72% interest for 30 years with \$74,000 in principal forgiveness.

Warren Blanchard then took the opportunity to speak to the Board, stating that when the water system was turned over to Dagget County from the Bureau of Reclamation, they were given \$300,000 which has now run out, due to the system being automated, the main water line being repaired, and currently the deterioration of the 60 year old tanks. He then went onto state that Dagget County is projecting that the system will have inadequate storage in about 15 years but due to costs, instead of trying to upgrade the system they were planning on just doing the repairs for now, however in looking at the funding proposal, they will still be paying for the repairs 15 years after they will need to replace the tank.

Brett Reynolds, also spoke to the Board, stating that in looking at the numbers in the funding proposal, they do not understand where those numbers were pulled from and would like the opportunity to spend time with Jesse to review the application.

There was discussion between the Board, Division staff, and Dagget County representatives as to the length of the loan versus the life of the tank, whether it would be best to replace the tank as a long term solution, the actual number of residents that would be repaying this loan, and whether or not the Bureau of Reclamation still holds the title to the water system.

- Tage Flint moved to table this item until staff has been able to review new information, re-present it to the FAC, and then bring it back before the Board at a later date. Mark Stevens seconded. The motion was carried unanimously by the Board.

c) West Erda Improvement District – Julie Cobleigh

Betty Naylor asked that the representatives for West Erda Improvement District (West Erda) introduce themselves. They were Darin Robinson, Jones and Demille Engineering, Jerry Houghton, West Erda's certified water operator, and Shawn Milne, Tooele County Commissioner.

Julie Cobleigh informed the Board that West Erda is requesting \$1,470,600 in funding to make upgrades to their existing distribution system, add fire hydrants, install a transmission line connecting them to Erda Acres, and purchasing capacity in Erda Acres source and storage facilities. West Erda does not have its own storage and their only source is suspected to be under the influence of surface water, putting West Erda on a boil order. Julie then reported that the cost sharing for this project will involve the 17 connections that are currently connected, 36 other connections that are not connected but are in the boundary, as well as another 54 lots that are along the transmission line and will benefit from fire protection. West Erda's local MAGI is \$29,797 or 79% of the state MAGI. The current water bill for the 17 connections is approximately \$79 which is 3.81% of the local MAGI. The proposed funding would increase the 17 connections water bill to \$109 which is 4.29% of the local MAGI; the 36 other connections would now have a water bill of \$30, and the 54 along the transmission line would now have a water bill of \$18. The FAC recommends that the Board authorize a loan of \$1,478,600 at 0% interest for 30 years with \$739,600 in grant, contingent upon 1) the districts authority and ability to expand their boundary

and implement the cost share proposed, and 2) being able to provide evidence of public support for the cost sharing for all the lots that are impacted.

Darin Robinson then informed the Board that Tooele County has two new commissioners after the November 6th election, which means there are unknowns as far as moving forward and what their interest in this expansion project will be. He then explained that the current thought is that the 36 and 54 connections should only be around \$20, which would make the 17 current connection have a water bill of \$110 which they don't feel will go over well and will make it hard for them to comply with the 2nd contingency.

There was discussion between the Board, Division Staff, and West Erda representatives as to the ability to obtain public support, the scope of the plan being to regionalize, whether they would need to come back with a new application versus closing on the proposed funding loan, how billing would work for those not currently connected, and whether those not currently connected would convert over to be on the system as culinary users.

- Tage Flint moved to authorize a loan of \$1,478,600 at 0% interest for 30 years with a \$739,600 grant, contingent upon 1) the districts authority and ability to expand their boundary to implement the cost share proposed for the project to include all 53 within the district as well as 54 lots along the transmission line, and 2) that evidence of public support for the cost share for all lots impacted by the project be provided. David Stevens seconded. The motion was carried unanimously by the Board.

iii. OTHER:

6. **Drinking Water Energy Efficiency Initiative**

A. Documents and Presentations – Ken Bousfield

Ken Bousfield, Division Director of DDW, reported that the Division, in cooperation with the private sector, water systems, and consultants are putting together a handbook on Energy Efficiency which covers 3 basic issues; the approach to energy efficiency, ideas to improve energy efficiency, which were provided by Doug Evans, and funding options for energy efficient projects. Ken then stated that, once finalized, there will be a hard copy version as well as a web version available to the public. Ken then went on to state that the plan is to get this document into the hands of the elected officials, consultants, and water system personnel through the use of a brochure and presentations at conferences.

B. Drinking Water Boards' Direction on Energy Efficiency Initiative Incentives

Paul Hansen, Board Chairman, stated that during the working session that was held the morning of November 7, 2014, the Board looked at the 3 sections of the Drinking Water Energy (Cost) Savings Handbook to determine the best way to offer incentives to water systems. Paul stated that the Board feels that there is an opportunity to help water systems perform energy audits and has asked staff to further investigate the costs of those to see if it would be feasible for the Board to assist in funding those. Paul then stated that the Board also feels that there is an opportunity when a water system comes before the Board for funding to be able to reward them with .5% interest reduction, or some other appropriate rate, if they implement a certain level of energy (cost) efficient savings into their project. Before the Board makes any final decisions they have asked Division staff to do a fiscal analysis to ensure the Board's ability to perpetuate funding in the future for water systems to maintain clean reliable water.

7. **Final Adoption of Rule Revision**

A. R309-400 – Water System Rating Criteria (Improvement Priority System) – To Be Determined

John Oakeson, Environmental Scientist with DDW, explained that Rule R309-400 is the Improvement Priority System rule and is used to assign deficiency and violation points that a water systems rating is based upon. He then stated that this rule is an effective tool for the Division to identify compliance problems within a water system. On July 18, 2014, the Board authorized the Division to proceed with the rule making process to update R309-400. R309-400 was then filed with the Division of Administrative Rules (DAR) and opened for a public comment period from September 1 to October 1, 2014. No additional comments were received. Division staff recommends that the Board adopt the rule revisions to R309-400 and authorize staff to make this rule change effective November 10, 2014.

- David Sakrison moved to adopt rule revisions to R309-400 and authorize staff to make the rule change effective November 10, 2014. Betty Naylor seconded. The motion was carried unanimously by the Board.

B. R309-545 – Drinking Water Storage Tanks – Ying Ying Macauley

C. R309-550 – Transmission and Distribution Pipelines – Ying Ying Macauley

As both R309-545 and R309-550 have similar timelines and milestones, the Board was amenable to consider both items together.

Ying Ying Macauley, Environmental Engineering Manager with DDW, explained that rule R309-545, Drinking Water Storage Tanks, and R309-550, Transmission and Distribution Pipelines were both brought before the Board and authorized for rule revisions in May of 2014. Both R309-545 and R309-550 were filed with DAR and opened for a public comment period from June 1 to July 1, 2014, during which time several comments were received for both. She then stated the Board then authorized a change to the proposed rules on July 18, 2014. Both rules were then re-filed with DAR and once again opened for a public comment period from August 15 to September 15, 2014, during which time no additional comments were received. Division staff recommends that the Board adopt the change in proposed rules R309-545 and R309-550 and authorize staff to make this rule change effective on November 10, 2014.

- Betty Naylor moved to adopt the change in proposed rules R309-545 and R309-550 and authorize staff to make this rule change effective on November 10, 2014. David Stevens seconded. The motion was carried unanimously by the Board.

8. Intent to Solicit Informal Comments

A. R309-500 – Plan Review, Operation, and Maintenance Requirements – Ying Ying Macauley

Ying Ying Macauley informed the Board that Division staff will begin to update R309-500, Plan Review, Operation, and Maintenance Requirements. Division staff are anticipating two major changes to the rule; 1) clarification to the requirements for plans and specs, and 2) make the language in the waiver provision easier to comprehend. She then stated that staff are going to complete an informal comment period and then plan to come back before the Board in January to request authorization to initiate the rulemaking process.

9. Rural Water Association Report – Dale Pierson

Dale Pierson, Executive Director of the Rural Water Association of Utah (RWAU) invited the Board members to attend the Water Energy Conservation Nexus Summit that will be held on January 22, 2015 at the Utah Local Government Trust Building, further details will be on invitations that will be sent out. Dale then asked some of the RWAU employees to update the Board on their work.

Terry Smith, Management Technician with RWAU, informed the Board that in the last quarter he has done ½ dozen or so rate studies at the request of water systems that are finding that their budget exceeds their revenue. He went on to state that he has also been working with several systems on conservation plan updates as well as doing training for water operators both in the classroom and on site.

Brian Pattee, Compliance Circuit Writer with RWAU, informed the Board that his main responsibility is to work with the CAP's systems and sampling issues. He then stated that he has been meeting with several systems and is finding that often the reason for the system having high points on their IPS report due to the lack of a certified water operator.

Curt Ludvigson, Development Specialist for RWAU, informed the Board that he has been working with John Chartier, Central Utah District Engineer, on a Non-Public Drinking Water Ordinance, which is almost ready to be finalized. He went on to state that both he and John, have been working with county planners, zoning administrators, and economic developers in the Six County area and are planning on meeting with those groups in Millard County as well. Curt then reminded the Board of RWAU's Annual Conference that will be held in St. George in February 2015, informed them that on February 24th there will be a tract of classes dedicated to county officials, and explained his plan to contact these groups to encourage attendance.

10. **Chairman's Report**

In the interest of time, this item was skipped.

11. **Directors Report**

A. Drinking Water Boards' 2015 Meeting Schedule

Ken Bousfield referred to the proposed Board meeting schedule and requested input from the Board. No changes or concerns were voiced by the Board. Ken mentioned that there may be some emergency teleconference meetings held during the year. He also mentioned that staff would try to arrange tours of water systems in connection with the summer Board meetings.

B. ASDWA Annual Conference October 20-23, 2014

Ken Bousfield reported on the following presentations delivered at the Association of State Drinking Water Administrators (ASDWA) annual conference, held October 20-23, 2014.

- The Water Infrastructure Finance and Innovation Act (WIFIA), is a Federal act, passed by congress but not funded by congress. The Act provides funding for water projects, to be implemented directly by EPA. It has a base funding level of \$10 million with 50% local funding. Hence it is designed for large water systems. Because there is currently no dedicated funding for it, states expressed concerns that EPA would use SRF funds, at the expense of the states to implement it.
- Mike Baker of Ohio gave a presentation on the cyanotoxins and the do not drink order that was put into place for Cleveland, Ohio.
- The presentation on the naegleria fowleri amoeba that was contaminating the water in New Orleans. The amoeba was conveyed through the water system and inhaled by water users. This pathway enabled the amoeba to cause brain infections. Some deaths have occurred.
- EPA's contract with the developers of the Safe Drinking Water Information System (SDWIS) database will expire in April 2015. EPA is obligated to change contractors in the middle of developing this software; however the new contractor may hire the current contractor as a subcontractor.
- Ken and Dale Pierson presented a paper on how the Division and RWAU work together.

- Eva Nieminski, Environmental Engineer with the Division, gave a presentation on biological filtration.
- Mike Moss, Environmental Scientist with the Division, gave a presentation on backflow protection.
- Dave Leland gave a report on the a boil water order in Portland, Oregon and the challenges associated with it.
- There was an announcement of EPA's initiative of a smart-phone app for emergency response. The app captures damage reports which will facilitate reimbursement from FEMA. Another effort was also announced about a program that links environmental information together to facilitate an integrated approach to problem resolutions.

Legislative Audit (This item was not on the agenda)

Ken Bousfield reported to the Board that earlier in the week there was a meeting between Division staff and the Legislative Auditors office, who are auditing the Board's source capacity rules. Ken reported that the Auditor's report is still in draft form while the discussions with the Division were on-going. Ken reported that the report gave three basic recommendations; 1) the Division should look at the indoor source capacity requirements as the audit report states that it seems to be too high, 2) the Division should look at the outdoor source capacity requirements as current requirements seem to be too low, and 3) the Division should clarify the rules that deal with how water systems and engineers can apply for reductions to the source capacity requirements.

12. Next Board Meeting:

Date: January 9, 2015
 Time: 1:00 pm
 Place: Multi Agency State Office Building
 Room 1015
 195 North 1950 West
 Salt Lake City, Utah 84116

13. Other

Paul Hansen noted that there were several rough presentations with new information just being brought forward and asked that Michael express the Boards' appreciation for the work the staff does.

Michael Grange informed the Board that the Division has received the application from the Town of Stockton and it will most likely be included in the next teleconference that was discussed earlier to re-present for Ticaboo.

14. Adjourn

- Paul Hansen recommended that the Drinking Water Board Meeting be adjourned. All Board members agreed.

Meeting Adjourned At: 3:08 pm.

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Agenda Item

4(B)



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Mark Stevens, M.D.
Kenneth H. Bousfield, P.E.
Executive Secretary

DRINKING WATER BOARD MEETING
Monday, December 1, 2014 – 9:00 am
Multi Agency State Office Building
195 N 1950 W
Salt Lake City, Utah 84116
Teleconference 1-877-820-7831 Pin#: 878776#

DRAFT MINUTES

1. **Call to Order – Chairman Hansen**

Paul Hansen, Board Chairman called the meeting to order at 9:00 am.

2. **Roll Call – Ken Bousfield**

Board members attending telephonically: Paul Hansen, Brett Chynoweth, Roger Fridal, David Stevens and David Sakrison. Betty Naylor joined at approximately 9:02 am.

Board members excused: Tage Flint, Brad Johnson, and Mark Stevens.

Division staff present: Ken Bousfield, Michael Grange, Heather Bobb, and Nathan Hall.

3. **Introductions – Chairman Hansen**

In the interest of time, this item was skipped.

4. **Financial Assistance Committee Report**

A. SRF Applications

i. STATE:

a. Paunsaugunt Cliffs SSD – Nathan Hall

Nathan Hall, Environmental Engineer with the Division of Drinking Water (DDW, the Division), reported that Paunsaugunt Cliffs Special Service District (PCSSD, Paunsaugunt)

is requesting \$17,000 in financial assistance in order to replace electrical equipment that was damaged by a lightning strike as well as upgrading system Supervisory Control and Data Acquisition (SCADA). Paunsaugunt has a 2012 local MAGI of \$39,167, which is approximately the same as the State MAGI. Their current water bill is \$69.21 which is 2.12% of the local MAGI. A \$17,000 construction loan would increase their water bill to \$74.85, or 2.29% of the local MAGI, therefore the District qualifies for grant. The Financial Assistance Committee recommends that the Board authorize a construction grant of \$17,000 to PCSSD to replace damaged electrical equipment and upgrade the SCADA system with the condition that PCSSD must resolve any and all issues on their compliance report.

There was discussion between the Board and Division staff that this was new damage, not damage caused by a prior power surge that the Board had previously authorized funding for; and that lightning strikes can still cause damage, even with surge protection in place.

- Paul Hansen moved to authorize a \$17,000 construction grant to replace damaged electrical equipment and upgrade their SCADA system with the condition that they resolve any and all issues on their compliance report. Roger Fridal seconded. The motion was carried unanimously by the Board.

ii. FEDERAL:

iii. OTHER:

5. Next Board Meeting:

Date: January 9, 2015
Time: 1:00 pm
Place: Multi Agency State Office Building
Room 1015
195 North 1950 West
Salt Lake City, Utah 84116

6. Other

Michael Grange, Construction Assistance Section Manager with the Division, reminded the Board that there will be a work meeting the morning of January 9, 2015 prior to the Board meeting to further discuss the Board's direction on incorporating energy efficiency incentives.

7. Adjourn

- Paul Hansen thanked everyone for attending and adjourned the meeting.

Meeting adjourned at 9:08 am

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Agenda Item

5(A)

DIVISION OF DRINKING WATER
STATE LOAN FUNDS
AS OF November 30, 2014

SUMMARY		
	Total State Fund:	\$4,472,531
	Total State Hardship Fund:	\$1,227,951
	Subtotal:	\$5,700,482
LESS AUTHORIZED	Less:	
	Authorized Loans & Closed loans in construction:	\$1,214,000
	Authorized Hardship:	\$401,875
	Subtotal:	\$1,615,875
	Total available after Authorized deducted	\$4,084,607
PROPOSED	Proposed Loan Project(s):	\$510,000
	Proposed Hardship Project(s):	\$558,000
	Subtotal:	\$1,068,000
AS OF:		
November 30, 2014	TOTAL REMAINING STATE LOAN FUNDS:	\$2,748,531
	TOTAL REMAINING STATE HARDSHIP FUNDS:	\$268,076

(see Page 2 for details)

(see Page 2 for details)

Total Balance of ALL Funds: \$3,016,607

Projected Receipts Next Twelve Months: and Sales Tax Revenue	
Annual Maximum Sales Tax Projection	\$3,587,500
	\$0
Less State Match for 2015 Federal Grant	(\$1,560,000)
Less Appropriation to DDW	(\$800,000)
Less Administration Fees	(\$145,700)
SUBTOTAL Sales Tax Revenue including adjustments:	\$1,081,800
Payment:	
Interest on Investments (Both Loan and Hardship Accounts)	\$16,800
Principal payments	\$3,538,722
Interest payments	\$1,014,041
Total Projections:	\$5,651,363

Receive 80% in January

Total Estimated State SRF Funds Available through 12-01-2015	\$8,667,970
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**DIVISION OF DRINKING WATER
STATE LOAN FUNDS
PROJECTS AUTHORIZED BUT NOT YET CLOSED
AS OF November 30, 2014**

Community	Loan #	Cost Estimate	Date Authorized	Date Closed/Anticipated	Authorized Funding		
					Loan	Grant	Total
							0
							0
Trenton Town 1.5% int 30 yrs	3S196	422,139	May-14		145,000	145,075	290,075
							0
Subtotal Loans and Grants Authorized					145,000	145,075	290,075
PLANNING LOANS / GRANTS IN PROCESS							
Henrieville Town 0% int 5 yrs	3S189P	36,000	Jun-13	Sep-13	36,000		36,000
Tabiona	3S192P	32,000	Sep-13		32,000		32,000
Coalville pl loan 5 yrs 0% int	3S186P	32,000	Jul-13	Sep-13	32,000		32,000
Fairview	3S198P	38,000	Jun-14	Aug-14	38,000		38,000
Salina City	3S205P	23,000	Sep-14	Oct-14	23,000		23,000
Hildale pl grant	3S194P	40,000	Jan-14	Mar-14		40,000	40,000
West Erda Imp Dist - pl grnt	3S197P	39,800	Jun-14			39,800	39,800
Hanksville	3S199P	40,000	Jul-14	Jul-14		40,000	40,000
Glen Canyon-Big Water Town	3S200P	40,000	Jul-14	Jul-14		40,000	40,000
Cedarview Montwell SSD	3S201P	40,000	Jul-14			40,000	40,000
Central Iron Co WCD	3S203P	40,000	Aug-14	Oct-14		40,000	40,000
					161,000	239,800	400,800
CLOSED LOANS (partially disbursed)							
Payson, 3.46% int, 20 yrs	3S170	3,404,000	Nov-11	Apr-12	908,000		908,000
Paunsaugunt Cliffs	3S209	17,000	Dec-14			17,000	17,000
							0
							0
Subtotal Planning Loans/Grants Auth					908,000	17,000	925,000
Total authorized or closed but not yet funded					\$1,214,000	\$401,875	\$1,615,875
PROPOSED PROJECTS for Aug 2014							
Grand Water and sewer	3S212	48,000			0	48,000	48,000
Dagget Co - Dutch John		1,020,000			510,000	510,000	1,020,000
		0			0	0	0
							0
Total Proposed Projects					510,000	558,000	1,068,000

**DIVISION OF DRINKING WATER
STATE LOAN FUNDS
AS OF November 30, 2014**

	5235	5240	
	Loan	Interest	
	Funds	(use for Grants)	Total
Cash:	\$4,472,531	\$1,227,951	\$5,700,482
Less:			
Loans & Grants authorized but not yet closed (schedule attached)	(306,000)	(384,875)	(690,875)
Loans & Grants closed but not fully disbursed (schedule attached)	(908,000)	(17,000)	(925,000)
Proposed loans & grants	(510,000)	(558,000)	(1,068,000)
Administrative quarterly charge for entire year	(145,700)		(145,700)
Appropriation to DDW	(800,000)		(800,000)
	0		0
FY 2015 Federal SRF 20% match of \$7,570,000	(1,560,000)		(1,560,000)
	242,831	268,076	510,907
Projected repayments during the next twelve months			
Thru 12-01-2015			
Principal	3,538,722		3,538,722
Interest		1,014,041	1,014,041
Projected annual investment earnings on invested cash balance		16,800	16,800
Sales Tax allocation thru Dec-01-2015	3,587,500		3,587,500
Total	\$7,369,053	\$1,298,917	\$8,667,970
* All interest is added to the Hardship Fee account.			

DIVISION OF DRINKING WATER
FEDERAL SRF
AS OF November 30, 2014

FIRST ROUND FUND		FEDERAL SECOND ROUND FUND		Hardship Fund
1997 thru 2014 SRF Grants		Principal Repayments	Earnings on Invested Cash Balance	Total:
Net Federal SRF Grants:	\$144,595,581	Principal (P):	\$37,189,077	Total: \$1,152,473
Total State Matches:	\$31,540,300	Interest (I):	\$9,766,010	
Closed Loans:	-\$176,135,881	Total P & I:	\$46,955,086	
Total Grant Dollars:	\$0			Total: \$2,647,046

SUMMARY		
	Total Federal State Revolving Fund:	\$48,107,559
	Total Federal Hardship Fund:	\$2,647,046
	Subtotal:	\$50,754,605
LESS	Less:	
AUTHORIZED & PARTIALLY DISBURSED	Authorized & Partially Disbursed Closed Loans:	\$14,789,586
	Authorized Federal Hardship:	\$633,840
	Subtotal:	\$15,423,426
PROPOSED	Proposed Federal Project(s):	\$0
	Proposed Federal Hardship Project(s):	\$0
	Subtotal:	\$0

(see Page 2 for details)

AS OF:	November 30, 2014	TOTAL REMAINING LOAN FUNDS:	\$33,317,973
		TOTAL REMAINING HARDSHIP FUNDS:	\$2,013,206

Total Balance of ALL Funds after deducting proposed actions: \$35,331,180

Projected Receipts thru December 1, 2015	
2015 Fed SRF Grant	\$6,056,000
2015 State Match	\$1,514,000
Interest on Investments	\$225,600
Principal Payments	\$6,150,246
Interest	\$1,424,176
Hardship & Technical Assistance fees	\$404,048
Total:	\$15,774,070

} Receive 60% in January

Total Estimated Federal SRF Funds Available through: 12/1/2015 **\$51,105,250**

**DIVISION OF DRINKING WATER
FEDERAL STATE REVIVING FUND**

**PROJECTS AUTHORIZED BUT NOT YET CLOSED
AS OF November 30, 2014**

COMMUNITY	Project			Authorized Date	Closing Date Scheduled	Authorized From Loan Funds (1st or 2nd Round)			Hardship Fund
	Total Project	Terms	Loan #			Loan	Forgiveness	Total	
Herriman	8,375,000	2.25% hgf, 20 yrs	3F194	Mar-12	Sep-15	4,682,000		4,682,000	
Greendale Water Co	1,385,000	3.92 int/hgf, 20 yrs	3F213	Jul-13	Mar-15	1,145,000		1,145,000	
Sheep Creek Cove HOA	90,000	4.82% int, 20 yr	3F218	Jan-14		90,000		90,000	
Pleasant View City	2,327,000	3.75% int, 20 yrs	3F219	Jan-14		1,977,000		1,977,000	
Forest Glen A	1,438,986	0% int, 30 yrs	3F222	Feb-14	Dec-14	1,000,000	438,986	1,438,986	
Boulder Farmstead Wtr Co	2,000,000	0% INT, 30 yrs	3F225	May-14		1,000,000	1,000,000	2,000,000	
White Hills Wtr Co	1,047,000	1% int, 30 yr	3F226	Jul-14		519,000	518,000	1,037,000	
West Erda	1,478,600	0% int, 30 yr	3F233	Nov-14		739,000	739,600	1,478,600	
								0	
TOTAL CONSTRUCTION AUTHORIZED:						\$ 11,152,000	\$ 2,696,586	\$ 13,848,586	\$ -
COMMITTED PLANNING ADVANCES / AGREEMENTS or PARTIALLY DISBURSED CLOSED 2ND ROUND AGREEMENTS:									
					Date Closed				
								0	0
Kane Co-Zion View	1,400,000	4.71% int, 30 yrs	3F185	Mar-12	Jul-12	550,000		550,000	0
Duchesne County WID	22,000,000	0% int 30 yrs 700K pf	3F142	Mar-10	Oct-14	0	300,000	300,000	
Rural Water Assn of Utah	124,758	5 yr contract for Development Specialist	Ongoing	Nov-12	Jan-13			0	441,546
Woodland Mutual Wtr Co.	37,000	Planning Loan 0% 5 yrs	3F206P	Nov-12	May-13			0	37,000
Rockville Pipeline Co	36,700	100% pf	3F220P	Feb-14	Mar-14			0	17,825
Marble Hills	28,167	100% pf	3F227	Jul-14	Aug-14			0	5,469
Lyman Water System	40,000	100% pf eng study	3F232P	Sep-14	Oct-14			0	40,000
Cedar Point - Big Plains	83,000	0.0% 5 yrs \$42,000 PF Aquafer study	3F224P	May-14		41,000	0	41,000	42,000
Central Iron County WCD	100,000	0.0% 5 yrs \$50,000 PF Aquafer study	3F230	Nov-14		50,000	0	50,000	50,000
TOTAL PLANNING AUTHORIZED:						\$641,000	\$300,000	\$941,000	\$633,840
TOTAL CONSTRUCTION & PLANNING:								\$14,789,586	\$633,840
AVAILABLE PROJECT FUNDS:									\$33,317,973
AVAILABLE HARDSHIP FUNDS:									\$2,013,206
PROPOSED PROJECTS FOR JANUARY 2015:									
								0	
								0	
								0	
TOTAL PROPOSED PROJECTS FOR THIS MEETING:						\$0	\$0	\$0	\$0
*RWAU hardship grant is being disbursed monthly									
TOTAL FUNDS AFTER PROPOSED PROJECTS ARE FUNDED:									\$33,317,973
TOTAL FUNDS AFTER PROPOSED HS PROJECTS ARE FUNDED:									\$2,013,206
NOTES OF LOAN CLOSINGS SINCE LAST BOARD MEETING:									
Total Recent Loan Closings						\$0	\$0	\$0	\$0

DIVISION OF DRINKING WATER
FEDERAL SRF LOAN FUNDS
AS OF November 30, 2014

	Loan Funds 1st Round	Loan Payments			TOTAL
		2nd Round		Hardship Fund	
		Principal	Interest		
Federal Capitalization Grants and State 20% match thru 2013	\$176,135,881				
Earnings on Invested 1st Round Funds			1,152,473		
Repayments (including interest earnings on 2nd round receipts)		37,189,077	9,766,010	2,647,046	226,890,486
Less:					
Closed loans and grants	-176,135,881				-176,135,881
SUBTOTAL of Funds Available	\$0	\$37,189,077	\$10,918,483	\$2,647,046	\$50,754,605
Loans & Grants authorized but not yet closed or fully disbursed	-11,068,586	-3,421,000	-300,000	-633,840	-15,423,426
SUBTOTAL of Funds Available less Authorized	-\$11,068,586	\$33,768,077	\$10,618,483	\$2,013,206	\$35,331,180
Future Estimates:					
Proposed Loans/Grants for current board package	0			0	0
SUBTOTAL of Funds Available less Proposed Loans & Grants	-\$11,068,586	\$33,768,077	\$10,618,483	\$2,013,206	\$35,331,180
PROJECTIONS THRU December-2015					
2015 Grant proceeds estimate (inc state match)	0				
2014 Grant \$9,000,000 less set-asides	6,056,000				
2014 State Match for Grant	1,514,000				
Projected repayments & revenue during the next twelve months		6,150,246	1,424,176	404,048	7,978,470
Projected annual investment earnings on invested cash balance		204,000	12,000	9,600	225,600
TOTAL	-\$3,498,586	\$40,122,323	\$12,054,659	\$2,426,854	\$51,105,250

Agenda Item 5(B)

Project Priority List
Presented to the Drinking Water Board
January 9, 2015

**DRINKING WATER BOARD
PACKET FOR PROJECT PRIORITY LIST
INTRODUCTION TO THE FINANCIAL ASSISTANCE COMMITTEE**

There are no new projects being added to the Project Priority List:

STAFF COMMENTS AND RECOMMENDATION:

Agenda Item

5(C)(i)(a)

DRINKING WATER BOARD
BOARD PACKET FOR CONSTRUCTION LOAN

APPLICANT'S REQUEST:

The Grand Water and Sewer Service Agency (Grand Water) is requesting financial assistance in the amount of \$48,000 to create a water system master plan.

STAFF COMMENTS:

The local MAGI for Grand Water is \$30,300, which is 77% of the state's \$39,325 MAGI. Additionally, the estimated water bill is \$49.55, which is 1.96% of the local MAGI. Both of these conditions qualify Grand Water for additional subsidization.

FINANCIAL ASSISTANCE COMMITTEE RECOMMENDATION:

Members of the Financial Assistance Committee discussed and had no issue with the Drinking Water Board authorizing a planning grant of \$48,000 to the Grand Water and Sewer Service Agency for the development of a master plan.

APPLICANT'S LOCATION:

The Grand Water and Sewer Service Agency is located adjacent and south of Moab, UT.

PROJECT DESCRIPTION:

The proposed culinary water master plan will provide GWSSA with a complete planning document, including an analysis of the existing system and a capital improvements plan for future system improvement projects. The culinary water master plan will include a detailed 5 point analysis of the existing culinary water system, which will specifically evaluate the system's sources, water rights, treatment, storage, and distribution system (including updating the hydraulic model to meet Division of Drinking Water regulations and verifying the functionality of the system valves). The water system's demands will be projected over a 20 year study period to estimate the future demands and required improvements for the system. A Capital Improvements Plan, including a recommended improvement schedule and estimated costs, will be developed based on the findings of the system analysis. A culinary water rate analysis will also be included in the water system master plan.

POPULATION GROWTH:

The engineer's projection for growth is slightly lower than the DEA estimate from the Governor's Office of Planning and Budget.

Year	DEA Projection	Engineer's Projection
2014	3860	3750
2020	4310	4200
2030	4728	4618
2035	4905	4795

IMPLEMENTATION SCHEDULE:

Apply to DWB for Construction Funds:	November 2014
FA Committee Conference Call:	December 2014
DWB Funding Authorization:	January 2015
Complete Study:	August 2015

COST ESTIMATE:

Engineering – Study	\$48,000
Total Project Cost	\$48,000

CONTACT INFORMATION:

APPLICANT: Grand Water and Sewer Service Agency
PO Box 1046
Moab, UT 84532
435-259-8121

PRESIDING OFFICIAL &
CONTACT PERSON: Mark Sovine, Manager
PO Box 1046
Moab, UT 84532
435-259-8121 (phone)
435-259-8122 (fax)
mark@grandwater.org

CONSULTING ENGINEER: Robert Worley
Sunrise Engineering, Inc.
25 East 500 North
Fillmore, UT 84631
435-743-6151
rworley@sunrise-eng.com

DRINKING WATER BOARD FINANCIAL ASSISTANCE EVALUATION

SYSTEM NAME: Grand Water
 COUNTY: Grand
 PROJECT DESCRIPTION: Master Plan

FUNDING SOURCE: State SRF

0 % Loan & 100 % Grant

ESTIMATED POPULATION:	3,750	NO. OF CONNECTIONS:	1802 *	SYSTEM RATING:	APPROVED
CURRENT AVG WATER BILL:	\$46.28 *			PROJECT TOTAL:	\$48,000
CURRENT % OF AGI:	1.83%	FINANCIAL PTS:	72	LOAN AMOUNT:	\$0
ESTIMATED MEDIAN AGI:	\$30,300			GRANT AMOUNT:	\$48,000
STATE AGI:	\$39,325			TOTAL REQUEST:	\$48,000
SYSTEM % OF STATE AGI:	77%				

	@ ZERO % RATE 0%	@ RBBI MKT RATE 4.79%	AFTER REPAYMENT PENALTY & POINTS 1.34%
<u>SYSTEM</u>			
ASSUMED LENGTH OF DEBT, YRS:	5	5	5
ASSUMED NET EFFECTIVE INT. RATE:	0.00%	4.79%	1.34%
REQUIRED DEBT SERVICE:	\$0.00	\$0.00	\$0.00
*PARTIAL COVERAGE (15%):	\$0.00	\$0.00	\$0.00
*ADD. COVERAGE AND RESERVE (10%):	\$0.00	\$0.00	\$0.00
ANNUAL NEW DEBT PER CONNECTION:	\$0.00	\$0.00	\$0.00
O & M + FUNDED DEPRECIATION:	\$663,242.00	\$663,242.00	\$663,242.00
OTHER DEBT + COVERAGE:	\$357,260.00	\$357,260.00	\$357,260.00
REPLACEMENT RESERVE ACCOUNT:	\$51,025.10	\$51,025.10	\$51,025.10
ANNUAL EXPENSES PER CONNECTION:	\$594.63	\$594.63	\$594.63
TOTAL SYSTEM EXPENSES	\$1,071,527.10	\$1,071,527.10	\$1,071,527.10
TAX REVENUE:	\$0.00	\$0.00	\$0.00
<u>RESIDENCE</u>			
MONTHLY NEEDED WATER BILL:	\$49.55	\$49.55	\$49.55
% OF ADJUSTED GROSS INCOME:	1.96%	1.96%	1.96%

* Equivalent Residential Connections

Agenda Item

5(C)(i)(b)

**DRINKING WATER BOARD
BOARD PACKET FOR CONSTRUCTION LOAN**

APPLICANT'S REQUEST:

In the November 2014 Drinking Water Board Meeting, Daggett County requested funding in the amount of \$362,000 (1.72% interest and 20% principal forgiveness) in financial assistance to repair two storage tanks, upgrade the disinfection system in the water treatment plant, replace filter media, and add meters within the Dutch John system. The funding request was tabled due to the issue that the tank repair would provide about 15 years of tank use, yet the loan term was 30 years. Dutch John is requesting that the Drinking Water Board consider funding a tank replacement project rather than repair. The total cost of tank replacement is \$1,020,000. Dutch John scored 18.4 points on the project priority list.

STAFF COMMENTS:

Due to the condition of the tanks, the original request to repair the tanks would provide an estimated 10 – 15 years of use for the tanks. Daggett County expressed that after the 10 – 15 years, they would look at replacing the storage tank anyway. Staff looked into funding a tank replacement project instead of tank repair, using state funds to see if additional grant would allow Daggett County to replace the tank now. The funding scenario is summarized in the table below:

Scenario	Loan	P.F.	Interest	Water Bill	% MAGI	Annual Payment
Tank Repair	\$288,000	\$74,000	1.72%	\$70.98	1.95%	\$12,369
Tank Replacement (proposed)	\$510,000	\$510,000	0.0%	\$74.08	2.04%	\$17,000

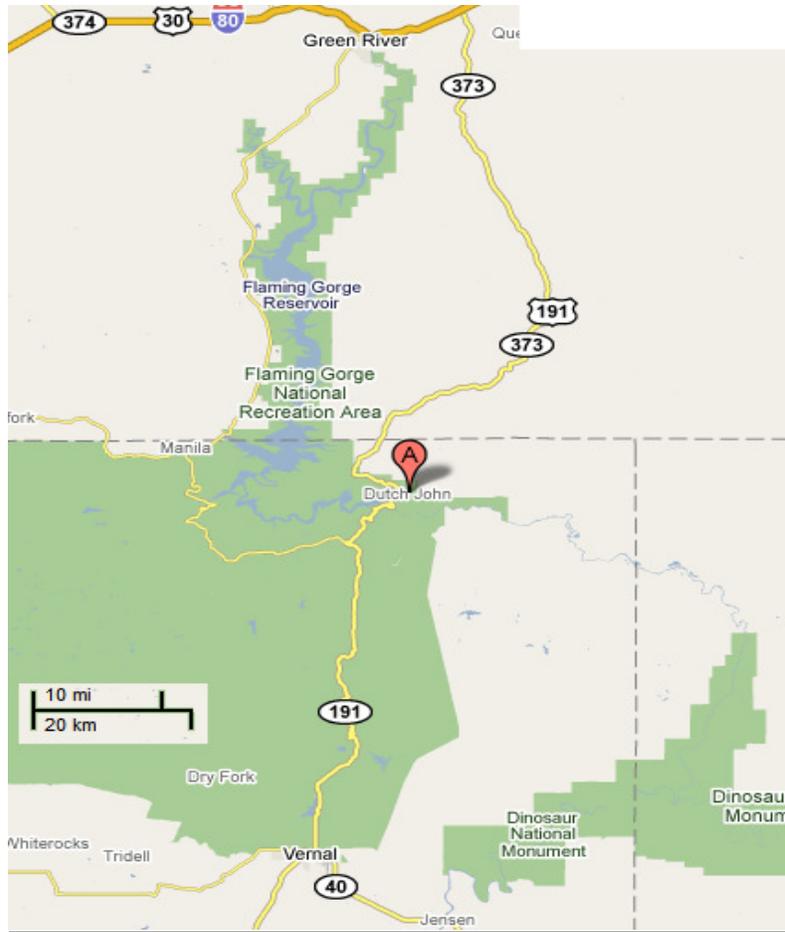
FINANCIAL ASSISTANCE COMMITTEE RECOMMENDATION:

The Financial Assistance Committee did not have enough members present to pass a recommendation, but the Committee discussed the project and had no objections to fund a \$510,000 loan at 0.0% interest for 30 years with an additional \$510,000 grant to Daggett County - Dutch John, using the state SRF funds.

APPLICANT'S LOCATION:

The Dutch John Water System is located in Daggett County, approximately 40 miles north of Vernal.

MAP OF APPLICANT'S LOCATION:



PROJECT DESCRIPTION:

The Dutch John Water System will demolish and replace two storage tanks with a larger tank, upgrade the disinfection system in the water treatment plant, replace filter media, and add meters within the system.

POPULATION GROWTH:

According to the Governor's Office of Planning and Budget the Dutch John Water System service area is expected to grow at an average annual rate of change of approximately 1% through 2030.

	Year	Population	ERC's
Current	2009	260	120
Projected	2030	324	162

IMPLEMENTATION SCHEDULE:

Apply to DWB for Funding:	September 2014
DWB Funding Authorization:	November 2014
Plans Submitted:	December 2014
Plan Approval:	January 2015
Advertise for Bids:	January 2015
Loan Closing:	January 2015
Begin Construction:	February 2015
Complete Construction:	May 2015

COST ESTIMATE:

Construction:	\$750,000
Engineering:	\$155,000
Contingency:	\$105,000
Admin/Legal/Bonding:	\$10,000
Total Capital Cost:	<u>\$1,020,000</u>

ESTIMATED ANNUAL COST OF WATER SERVICE:

Operation & Maintenance:	\$91,677.00
DDW Debt Service (0.0%, 30 yrs):	\$17,000.00
DDW 10% Coverage:	<u>\$1,700.00</u>
Total Annual Cost / ERU:	\$758.19
Monthly Cost / ERU:	\$74.08
Cost as % of MAGI:	2.04%

CONTACT INFORMATION:

APPLICANT: Dutch John Water System
PO Box 219
Manila, UT 84046
435-784-3154

PRESIDING OFFICIAL &
CONTACT PERSON: Warren Blanchard, County Commissioner
95 N 1st West
Manila, UT 84046
435-503-4151
wblanchard@daggettcountry.org

TREASURER / RECORDER Vicky McKee
435-784-3154
vmckee@daggettcountry.org

CONSULTING ENGINEER: Bret Reynolds
CIVCO Engineering, Inc.
1256 West 400 South, Ste. 1
Vernal, UT 84078
435-789-5448
bretreynolds@ubtanet.com

CITY ATTORNEY: Niel Lund
95 N 1st West
Manila, UT 84046
435-503-4151
Nlund@daggettcountry.org

DRINKING WATER BOARD FINANCIAL ASSISTANCE EVALUATION

SYSTEM NAME: Dutch John
 COUNTY: Daggett
 PROJECT DESCRIPTION: Tank Repair, Upgrade Treatment Plant

FUNDING SOURCE: Federal SRF

50 % Loan & 50 % P.F.

ESTIMATED POPULATION:	185	NO. OF CONNECTIONS:	143 *	SYSTEM RATING:	APPROVED
CURRENT AVG WATER BILL:	\$56.01 *			PROJECT TOTAL:	\$1,020,000
CURRENT % OF AGI:	1.54%	FINANCIAL PTS:	38	LOAN AMOUNT:	\$510,000
ESTIMATED MEDIAN AGI:	\$43,604			PRINC. FORGIVENESS:	\$510,000
STATE AGI:	\$39,325			TOTAL REQUEST:	\$1,020,000
SYSTEM % OF STATE AGI:	111%				

	@ ZERO % RATE 0%	@ RBBI MKT RATE 5.35%		AFTER REPAYMENT PENALTY & POINTS 0.00%
<u>SYSTEM</u>				
ASSUMED LENGTH OF DEBT, YRS:	30	30		30
ASSUMED NET EFFECTIVE INT. RATE:	0.00%	5.35%		0.00%
REQUIRED DEBT SERVICE:	\$17,000.00	\$34,511.49		\$17,000.00
*PARTIAL COVERAGE (15%):	\$0.00	\$0.00		\$0.00
*ADD. COVERAGE AND RESERVE (10%):	\$1,700.00	\$3,451.15		\$1,700.00
ANNUAL NEW DEBT PER CONNECTION:	\$130.77	\$265.47		\$130.77
O & M + FUNDED DEPRECIATION:	\$91,677.00	\$91,677.00		\$91,677.00
OTHER DEBT + COVERAGE:	\$10,875.00	\$10,875.00		\$10,875.00
REPLACEMENT RESERVE ACCOUNT:	\$5,868.85	\$6,744.42		\$5,868.85
ANNUAL EXPENSES PER CONNECTION:	\$758.19	\$764.31		\$758.19
TOTAL SYSTEM EXPENSES	\$127,120.85	\$147,259.07		\$127,120.85
TAX REVENUE:	\$0.00	\$0.00		\$0.00
<u>RESIDENCE</u>				
MONTHLY NEEDED WATER BILL:	\$74.08	\$85.82		\$74.08
% OF ADJUSTED GROSS INCOME:	2.04%	2.36%		2.04%

* Equivalent Residential Connections

Dutch John

PROPOSED BOND REPAYMENT SCHEDULE

50 % Loan & 50 % P.F.

PRINCIPAL	\$510,000.00	ANTICIPATED CLOSING DATE	26-Jan-15
INTEREST	0.00%	P&I PAYMT DUE	10-Jan-16
TERM	30	REVENUE BOND	
NOMIN. PAYMENT	\$17,000.00	PRINC PREPAID:	\$0.00

YEAR	BEGINNING BALANCE	DATE OF PAYMENT	PAYMENT	PRINCIPAL	INTEREST	ENDING BALANCE	PAYM NO.
2016	\$510,000.00		\$0.00 *	\$0.00	\$0.00	\$510,000.00	0
2017	\$510,000.00		\$17,000.00	\$17,000.00	\$0.00	\$493,000.00	1
2018	\$493,000.00		\$17,000.00	\$17,000.00	\$0.00	\$476,000.00	2
2019	\$476,000.00		\$17,000.00	\$17,000.00	\$0.00	\$459,000.00	3
2020	\$459,000.00		\$17,000.00	\$17,000.00	\$0.00	\$442,000.00	4
2021	\$442,000.00		\$17,000.00	\$17,000.00	\$0.00	\$425,000.00	5
2022	\$425,000.00		\$17,000.00	\$17,000.00	\$0.00	\$408,000.00	6
2023	\$408,000.00		\$17,000.00	\$17,000.00	\$0.00	\$391,000.00	7
2024	\$391,000.00		\$17,000.00	\$17,000.00	\$0.00	\$374,000.00	8
2025	\$374,000.00		\$17,000.00	\$17,000.00	\$0.00	\$357,000.00	9
2026	\$357,000.00		\$17,000.00	\$17,000.00	\$0.00	\$340,000.00	10
2027	\$340,000.00		\$17,000.00	\$17,000.00	\$0.00	\$323,000.00	11
2028	\$323,000.00		\$17,000.00	\$17,000.00	\$0.00	\$306,000.00	12
2029	\$306,000.00		\$17,000.00	\$17,000.00	\$0.00	\$289,000.00	13
2030	\$289,000.00		\$17,000.00	\$17,000.00	\$0.00	\$272,000.00	14
2031	\$272,000.00		\$17,000.00	\$17,000.00	\$0.00	\$255,000.00	15
2032	\$255,000.00		\$17,000.00	\$17,000.00	\$0.00	\$238,000.00	16
2033	\$238,000.00		\$17,000.00	\$17,000.00	\$0.00	\$221,000.00	17
2034	\$221,000.00		\$17,000.00	\$17,000.00	\$0.00	\$204,000.00	18
2035	\$204,000.00		\$17,000.00	\$17,000.00	\$0.00	\$187,000.00	19
2036	\$187,000.00		\$17,000.00	\$17,000.00	\$0.00	\$170,000.00	20
2037	\$170,000.00		\$17,000.00	\$17,000.00	\$0.00	\$153,000.00	21
2038	\$153,000.00		\$17,000.00	\$17,000.00	\$0.00	\$136,000.00	22
2039	\$136,000.00		\$17,000.00	\$17,000.00	\$0.00	\$119,000.00	23
2040	\$119,000.00		\$17,000.00	\$17,000.00	\$0.00	\$102,000.00	24
2041	\$102,000.00		\$17,000.00	\$17,000.00	\$0.00	\$85,000.00	25
2042	\$85,000.00		\$17,000.00	\$17,000.00	\$0.00	\$68,000.00	26
2043	\$68,000.00		\$17,000.00	\$17,000.00	\$0.00	\$51,000.00	27
2044	\$51,000.00		\$17,000.00	\$17,000.00	\$0.00	\$34,000.00	28
2045	\$34,000.00		\$17,000.00	\$17,000.00	\$0.00	\$17,000.00	29
2046	\$17,000.00		\$17,000.00	\$17,000.00	\$0.00	\$0.00	30
			\$510,000.00	\$510,000.00	\$0.00		

*Interest Only Payment

Dutch John

DWB Loan Terms

Local Share (total):	\$	-
Other Agency Funding:	\$	-
DWB Grant Amount:	\$	510,000
DWB Loan Amount:	\$	510,000
DWB Loan Term:		30
DWB Loan Interest:		0.00%
DWB Loan Payment:	\$	17,000

DW Expenses (Estimated)

Proposed Facility Capital Cost:	\$	1,020,000
Existing Facility O&M Expense:	\$	91,677
Proposed Facility O&M Expense:	\$	91,677
O&M Inflation Factor:		1.0%
Existing Debt Service:	\$	8,700

DW Revenue Sources (Projected)

Beginning Cash:	\$	-
Existing Customers (ERC):		143
Projected Growth Rate:		1.0%
Impact Fee/Connection Fee:	\$	-
Current Monthly User Charge:	\$	56.01
Needed Average Monthly User Charge:	\$	74.08

DW Revenue Projections

Yr	Growth Rate (%)	Annual Growth (ERC)	Total Users (ERC)	User Charge Revenue	Impact Fee Revenue	Property Tax Revenue	Total Revenue	DWB Loan Repayment	DWB Loan Reserves	Remaining Principal	Principal Payment	Interest Payment	Existing DW Debt Service	O&M Expenses	Total Expenses	Debt Service Ratio
0	1.0%	1	143	96,118	-	-	96,118	-	-	510,000	-	-	8,700	91,677	100,377	-
1	1.0%	1	144	128,010	-	-	128,010	17,000	1,700	493,000	17,000	-	8,700	91,677	119,077	1.41
2	1.0%	2	146	129,788	-	-	129,788	17,000	1,700	476,000	17,000	-	8,700	92,594	119,994	1.45
3	1.0%	1	147	130,677	-	-	130,677	17,000	1,700	459,000	17,000	-	8,700	93,520	120,920	1.45
4	1.0%	2	149	132,455	-	-	132,455	17,000	1,700	442,000	17,000	-	8,700	94,455	121,855	1.48
5	1.0%	1	150	133,344	-	-	133,344	17,000	1,700	425,000	17,000	-	8,700	95,399	122,799	1.48
6	1.0%	2	152	135,121	-	-	135,121	17,000	1,700	408,000	17,000	-	8,700	96,353	123,753	1.51
7	1.0%	1	153	136,010	-	-	136,010	17,000	1,700	391,000	17,000	-	8,700	97,317	124,717	1.51
8	1.0%	2	155	137,788	-	-	137,788	17,000	1,700	374,000	17,000	-	8,700	98,290	125,690	1.54
9	1.0%	1	156	138,677	-	-	138,677	17,000	1,700	357,000	17,000	-	8,700	99,273	126,673	1.53
10	1.0%	2	158	140,455	-	-	140,455	17,000	1,700	340,000	17,000	-	8,700	100,266	127,666	1.56
11	1.0%	2	160	142,233	-	-	142,233	17,000	1,700	323,000	17,000	-	8,700	101,268	126,968	1.59
12	1.0%	1	161	143,122	-	-	143,122	17,000	1,700	306,000	17,000	-	8,700	102,281	127,981	1.59
13	1.0%	2	163	144,900	-	-	144,900	17,000	1,700	289,000	17,000	-	8,700	103,304	129,004	1.62
14	1.0%	1	164	145,789	-	-	145,789	17,000	1,700	272,000	17,000	-	8,700	104,337	130,037	1.61
15	1.0%	2	166	147,567	-	-	147,567	17,000	1,700	255,000	17,000	-	8,700	105,380	131,080	1.64
16	1.0%	2	168	149,345	-	-	149,345	17,000	1,700	238,000	17,000	-	8,700	106,434	132,134	1.67
17	1.0%	1	169	150,234	-	-	150,234	17,000	1,700	221,000	17,000	-	8,700	107,498	133,198	1.66
18	1.0%	2	171	152,012	-	-	152,012	17,000	1,700	204,000	17,000	-	8,700	108,573	134,273	1.69
19	1.0%	2	173	153,790	-	-	153,790	17,000	1,700	187,000	17,000	-	8,700	109,659	135,359	1.72
20	1.0%	1	174	154,679	-	-	154,679	17,000	1,700	170,000	17,000	-	8,700	110,756	136,456	1.71
21	1.0%	2	176	156,456	-	-	156,456	17,000	1,700	153,000	17,000	-	8,700	111,863	137,563	1.74
22	1.0%	2	178	158,234	-	-	158,234	17,000	1,700	136,000	17,000	-	8,700	112,982	138,682	1.76
23	1.0%	2	180	160,012	-	-	160,012	17,000	1,700	119,000	17,000	-	8,700	114,112	139,812	1.79
24	1.0%	2	182	161,790	-	-	161,790	17,000	1,700	102,000	17,000	-	8,700	115,253	140,953	1.81
25	1.0%	1	183	162,679	-	-	162,679	17,000	1,700	85,000	17,000	-	8,700	116,405	142,105	1.80
26	1.0%	2	185	164,457	-	-	164,457	17,000	1,700	68,000	17,000	-	8,700	117,570	143,270	1.82
27	1.0%	2	187	166,235	-	-	166,235	17,000	1,700	51,000	17,000	-	8,700	118,745	144,445	1.85
28	1.0%	2	189	168,013	-	-	168,013	17,000	1,700	34,000	17,000	-	8,700	119,933	145,633	1.87
29	1.0%	2	191	169,791	-	-	169,791	17,000	1,700	17,000	17,000	-	8,700	121,132	146,832	1.89
30	1.0%	2	193	171,569	-	-	171,569	17,000	1,700	-	17,000	-	8,700	122,343	148,043	1.92

Total Paid in Debt Service = 510,000

DRINKING WATER BOARD FINANCIAL ASSISTANCE EVALUATION

SYSTEM NAME: Dutch John
 COUNTY: Daggett
 PROJECT DESCRIPTION: Tank Repair, Upgrade Treatment Plant

FUNDING SOURCE: Federal SRF

100 % Loan & 0 % P.F.

ESTIMATED POPULATION:	185	NO. OF CONNECTIONS:	143 *	SYSTEM RATING:	APPROVED
CURRENT AVG WATER BILL:	\$56.01 *			PROJECT TOTAL:	\$1,020,000
CURRENT % OF AGI:	1.54%	FINANCIAL PTS:	42	LOAN AMOUNT:	\$1,020,000
ESTIMATED MEDIAN AGI:	\$43,604			PRINC. FORGIVENESS:	\$0
STATE AGI:	\$39,325			TOTAL REQUEST:	\$1,020,000
SYSTEM % OF STATE AGI:	111%				

	@ ZERO % RATE 0%	@ RBBI MKT RATE 5.35%		AFTER REPAYMENT PENALTY & POINTS 3.60%
<u>SYSTEM</u>				
ASSUMED LENGTH OF DEBT, YRS:	30	30		30
ASSUMED NET EFFECTIVE INT. RATE:	0.00%	5.35%		3.60%
REQUIRED DEBT SERVICE:	\$34,000.00	\$69,022.98		\$56,155.77
*PARTIAL COVERAGE (15%):	\$0.00	\$10,353.45		\$8,423.37
*ADD. COVERAGE AND RESERVE (10%):	\$3,400.00	\$6,902.30		\$5,615.58
ANNUAL NEW DEBT PER CONNECTION:	\$261.54	\$603.35		\$490.87
O & M + FUNDED DEPRECIATION:	\$91,677.00	\$91,677.00		\$91,677.00
OTHER DEBT + COVERAGE:	\$10,875.00	\$10,875.00		\$10,875.00
REPLACEMENT RESERVE ACCOUNT:	\$6,718.85	\$0.00		\$0.00
ANNUAL EXPENSES PER CONNECTION:	\$764.13	\$717.15		\$717.15
TOTAL SYSTEM EXPENSES	\$146,670.85	\$188,830.73		\$172,746.71
TAX REVENUE:	\$0.00	\$0.00		\$0.00
<u>RESIDENCE</u>				
MONTHLY NEEDED WATER BILL:	\$85.47	\$110.04		\$100.67
% OF ADJUSTED GROSS INCOME:	2.35%	3.03%		2.77%

* Equivalent Residential Connections

Agenda Item

5(C)(i)(c)

DRINKING WATER BOARD
BOARD PACKET FOR CONSTRUCTION LOAN

APPLICANT’S REQUEST:

Ticaboo Utility Improvement District is requesting financial assistance in the amount of \$700,000 to replace the Well #1 pump and pump house.

STAFF COMMENTS:

The pumping equipment for the District’s primary source, Well #1, has failed. The existing pump house has exceeded its useful life and is failing. The existing security fence is also old and requires replacement. The system presently uses diesel generators to provide the power required for the operation of the two existing wells. The dependence upon diesel power generation results in high pumping costs. The project also includes the installation of new solar panel arrays to provide power for Well #1 and Well #2 and reduce the reliance on diesel generation and associated high pumping costs.

The local MAGI for Ticaboo is \$19,243 which is 49% of the State MAGI. They currently have a water bill of approximately \$61.23 per month, which is 3.82% of local MAGI. Due to Ticaboo’s low MAGI and high water bill relative to its MAGI the town qualifies for grant.

On November 7, at the Drinking Water Board meeting Chip Shortreed of Ticaboo requested that the Board offer a 50-50 loan to grant split because of the financial hardship the Town of Ticaboo experiences. Chip Shortreed stated that the Town’s average water bill is higher than the staff’s evaluation demonstrated. The Board tabled authorizing the loan at the Financial Assistance Committee’s recommendation allowing for updated information to be provided to Division staff.

Chip has since provided a lower connection count of 93 than the previous provided count of 123, higher system expenses of \$52,578 from \$27,578 and higher system income of \$68,332 from \$58,032. Staff provides updated funding options with no recommendation.

	Total Request	Term (Yr)	Interest	Loan		P.F.		Water Bill	% of MAGI
1	\$700,000	30	0.0%	\$560,000	80%	\$140,000	20%	\$68.70	4.28%
2	\$700,000	30	0.0%	\$350,000	50%	\$350,000	50%	\$61.79	3.83%

APPLICANT'S LOCATION:

Ticaboo is located in Garfield County.

MAP OF APPLICANT'S LOCATION:



PROJECT DESCRIPTION:

The pumping equipment for the District's primary source, Well #1, has failed. The existing pump house has exceeded its useful life and is failing and the existing security fence is also old and requires replacement. The system presently uses diesel generators to provide the power required for the operation of the two existing wells. The dependence upon diesel power generation results in high pumping costs.

The project includes the following:

- Replacement of Well #1 pump and related equipment.
- Construction of a new pump house for Well #1.
- New fencing to secure Well #1 and the existing storage reservoir.
- Installation of new solar panel arrays to provide power for Well #1 and Well #2 and reduce the reliance on diesel generation and associated high pumping costs.

This project is designed to place this source back in reliable service, reduce pumping costs and satisfy state and federal regulatory requirements.

A solar engineering firm was consulted and provided with the District's kilowatt hour usage on the well pumps. From their analysis they recommended: 78.4 kW solar-direct for Well Pump 1; and 39.2 kW solar-direct for Well Pump 2. The solar-direct kW needed to power each pump was based upon historical usage values. This provides the District the ability to run the pumps solely on solar-direct power and keep up with demand even during night time hours when no pumping would occur. By doing so the District would no longer be reliant on diesel generation for water production though under an emergency situation the diesel generation can still be utilized. The District has estimated a return on investment for the solar construction in approximately 15 years.

POPULATION GROWTH:

According to the Utah State Governor's Office of Planning and Budgeting, the anticipated growth rate for Trenton Town Water System is approximately 1.1% per year over the next 40 years

	<u>Year</u>	<u>Population</u>
Current:	2014	134
Projected:	2030	180

IMPLEMENTATION SCHEDULE:

Apply to DWB for Construction Funds:	September 25, 2014
SRF Committee Conference Call:	October 15, 2014
DWB Funding Authorization:	November 7, 2014
Complete Design:	December 31, 2014
Plan Approval:	January 31, 2014
Advertise for Bids:	January 31, 2014
Bid Opening:	February 28, 2014
Loan Closing:	March 9, 2014
Begin Construction:	March 23, 2014
Complete Construction:	June 23, 2014
Receive Operating Permit:	July 23, 2014

COST ESTIMATE:

Legal and Bonding	\$6,000
Engineering- Design	\$25,000
Engineering- CMS	\$10,000
Engineering- O&M Manual	\$5,000
Construction-Water Source	\$236,000
Construction- Solar Equipment	\$358,000
Contingency	<u>\$60,000</u>
Total Project Cost	\$700,000

COST ALLOCATION:

The cost allocation proposed for the project is shown below.

<u>Funding Source</u>	<u>Cost Sharing</u>	<u>Percent of Project</u>
DWB Loan (0%, 30-yr)	\$560,000	80%
DWB Grant	\$140,000	20%
Total Amount	<u>\$700,000</u>	<u>100%</u>

ESTIMATED ANNUAL COST OF WATER SERVICE:

Operation and Maintenance plus Depreciation: \$27,578

Existing DW Debt Service: \$0

DDW Debt Service (0%, 30-yrs): \$18,666.67

DDW Debt Reserve: \$1,866.67

Replacement Reserve Account: \$2,800.00

Annual Cost/ERC: \$413.91

Monthly Cost/ERC: \$34.49

Cost as % MAGI: 2.15%

Ticaboo Utility Improvement District

November 26, 2014

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APPLICANT:

Ticaboo Utility Improvement District
Highway 276, Mile Marker 27
P.O. Box 2140
Ticaboo, Utah 84533-8343
ticabooUID@gmail.com

**PRESIDING OFFICIAL &
CONTACT PERSON:**

Chip Shortreed
P.O. Box 2140
Ticaboo, Utah 84533
435-788-8343
435-459-1776 Mobile
chipshortreed@msn.com

TREASURER/RECORDER:

Justin Fischer
435-788-8343

CONSULTING ENGINEER:

Ryan Jolley
Jones & Demille Engineering, Inc.
1535 South 100 West
Richfield, Utah 84701
435-896-8266
ryanj@jonesanddemille.com

FINANCIAL CONSULTANT:

Hinton Burdick
159 North Main
Richfield, Utah 84701
435-896-5491

BOND ATTORNEY:

Baline Carlton
Ballard Spahr Andrews & Ingersoll, LLP
201 South Main Street, One Utah Center, Suite 800
Salt Lake City, Utah 84111
801-531-3020

DRINKING WATER BOARD FINANCIAL ASSISTANCE EVALUATION

SYSTEM NAME: Ticaboo
 COUNTY: Garfield
 PROJECT DESCRIPTION: Well Construction

FUNDING SOURCE: State SRF

80 % Loan & 20 % Grant

ESTIMATED POPULATION:	134	NO. OF CONNECTIONS:	93 *	SYSTEM RATING:	APPROVED
CURRENT AVG WATER BILL:	\$61.23 *			PROJECT TOTAL:	\$700,000
CURRENT % OF AGI:	3.82%	FINANCIAL PTS:	68	LOAN AMOUNT:	\$560,000
ESTIMATED MEDIAN AGI:	\$19,243			GRANT AMOUNT:	\$140,000
STATE AGI:	\$39,325			TOTAL REQUEST:	\$700,000
SYSTEM % OF STATE AGI:	49%				

	@ ZERO % RATE 0%	@ RBBI MKT RATE 4.93%		AFTER REPAYMENT PENALTY & POINTS 0.00%
<u>SYSTEM</u>				
ASSUMED LENGTH OF DEBT, YRS:	30	30		30
ASSUMED NET EFFECTIVE INT. RATE:	0.00%	4.93%		0.00%
REQUIRED DEBT SERVICE:	\$18,666.67	\$36,138.64		\$18,666.67
*PARTIAL COVERAGE (15%):	\$0.00	\$5,420.80		\$0.00
*ADD. COVERAGE AND RESERVE (10%):	\$1,866.67	\$3,613.86		\$1,866.67
ANNUAL NEW DEBT PER CONNECTION:	\$220.79	\$485.73		\$220.79
O & M + FUNDED DEPRECIATION:	\$52,578.00	\$52,578.00		\$52,578.00
OTHER DEBT + COVERAGE:	\$0.00	\$0.00		\$0.00
REPLACEMENT RESERVE ACCOUNT:	\$3,562.23	\$0.00		\$3,562.23
ANNUAL EXPENSES PER CONNECTION:	\$603.66	\$565.35		\$603.66
TOTAL SYSTEM EXPENSES	\$76,673.57	\$97,751.30		\$76,673.57
TAX REVENUE:	\$0.00	\$0.00		\$0.00
<u>RESIDENCE</u>				
MONTHLY NEEDED WATER BILL:	\$68.70	\$87.59		\$68.70
% OF ADJUSTED GROSS INCOME:	4.28%	5.46%		4.28%

* Equivalent Residential Connections

Ticaboo

PROPOSED BOND REPAYMENT SCHEDULE

80 % Loan & 20 % Grant

PRINCIPAL	\$560,000.00	ANTICIPATED CLOSING DATE	09-Mar-15
INTEREST	0.00%	FIRST P&I PAYMENT DUE	01-Jul-16
TERM	30	REVENUE BOND	
NOMIN. PAYMENT	\$18,666.67	PRINC PREPAID:	\$0.00

YEAR	BEGINNING BALANCE	DATE OF PAYMENT	PAYMENT	PRINCIPAL	INTEREST	ENDING BALANCE	PAYM NO.
2015	\$560,000.00		\$0.00 *	\$0.00	\$0.00	\$560,000.00	0
2016	\$560,000.00		\$19,000.00	\$19,000.00	\$0.00	\$541,000.00	1
2017	\$541,000.00		\$19,000.00	\$19,000.00	\$0.00	\$522,000.00	2
2018	\$522,000.00		\$19,000.00	\$19,000.00	\$0.00	\$503,000.00	3
2019	\$503,000.00		\$19,000.00	\$19,000.00	\$0.00	\$484,000.00	4
2020	\$484,000.00		\$19,000.00	\$19,000.00	\$0.00	\$465,000.00	5
2021	\$465,000.00		\$19,000.00	\$19,000.00	\$0.00	\$446,000.00	6
2022	\$446,000.00		\$19,000.00	\$19,000.00	\$0.00	\$427,000.00	7
2023	\$427,000.00		\$19,000.00	\$19,000.00	\$0.00	\$408,000.00	8
2024	\$408,000.00		\$19,000.00	\$19,000.00	\$0.00	\$389,000.00	9
2025	\$389,000.00		\$19,000.00	\$19,000.00	\$0.00	\$370,000.00	10
2026	\$370,000.00		\$19,000.00	\$19,000.00	\$0.00	\$351,000.00	11
2027	\$351,000.00		\$18,000.00	\$18,000.00	\$0.00	\$333,000.00	12
2028	\$333,000.00		\$19,000.00	\$19,000.00	\$0.00	\$314,000.00	13
2029	\$314,000.00		\$18,000.00	\$18,000.00	\$0.00	\$296,000.00	14
2030	\$296,000.00		\$19,000.00	\$19,000.00	\$0.00	\$277,000.00	15
2031	\$277,000.00		\$18,000.00	\$18,000.00	\$0.00	\$259,000.00	16
2032	\$259,000.00		\$19,000.00	\$19,000.00	\$0.00	\$240,000.00	17
2033	\$240,000.00		\$18,000.00	\$18,000.00	\$0.00	\$222,000.00	18
2034	\$222,000.00		\$19,000.00	\$19,000.00	\$0.00	\$203,000.00	19
2035	\$203,000.00		\$18,000.00	\$18,000.00	\$0.00	\$185,000.00	20
2036	\$185,000.00		\$19,000.00	\$19,000.00	\$0.00	\$166,000.00	21
2037	\$166,000.00		\$18,000.00	\$18,000.00	\$0.00	\$148,000.00	22
2038	\$148,000.00		\$19,000.00	\$19,000.00	\$0.00	\$129,000.00	23
2039	\$129,000.00		\$18,000.00	\$18,000.00	\$0.00	\$111,000.00	24
2040	\$111,000.00		\$19,000.00	\$19,000.00	\$0.00	\$92,000.00	25
2041	\$92,000.00		\$18,000.00	\$18,000.00	\$0.00	\$74,000.00	26
2042	\$74,000.00		\$19,000.00	\$19,000.00	\$0.00	\$55,000.00	27
2043	\$55,000.00		\$18,000.00	\$18,000.00	\$0.00	\$37,000.00	28
2044	\$37,000.00		\$19,000.00	\$19,000.00	\$0.00	\$18,000.00	29
2045	\$18,000.00		\$18,000.00	\$18,000.00	\$0.00	\$0.00	30
			\$560,000.00	\$560,000.00	\$0.00		

*Interest Only Payment

DRINKING WATER BOARD FINANCIAL ASSISTANCE EVALUATION

SYSTEM NAME: Ticaboo
 COUNTY: Garfield
 PROJECT DESCRIPTION: Well Construction

FUNDING SOURCE: State SRF

50 % Loan & 50 % Grant

ESTIMATED POPULATION:	134	NO. OF CONNECTIONS:	93 *	SYSTEM RATING:	APPROVED
CURRENT AVG WATER BILL:	\$61.23 *			PROJECT TOTAL:	\$700,000
CURRENT % OF AGI:	3.82%	FINANCIAL PTS:	68	LOAN AMOUNT:	\$350,000
ESTIMATED MEDIAN AGI:	\$19,243			GRANT AMOUNT:	\$350,000
STATE AGI:	\$39,325			TOTAL REQUEST:	\$700,000
SYSTEM % OF STATE AGI:	49%				

	@ ZERO % RATE 0%	@ RBBI MKT RATE 4.93%		AFTER REPAYMENT PENALTY & POINTS 0.00%
<u>SYSTEM</u>				
ASSUMED LENGTH OF DEBT, YRS:	30	30		30
ASSUMED NET EFFECTIVE INT. RATE:	0.00%	4.93%		0.00%
REQUIRED DEBT SERVICE:	\$11,666.67	\$22,586.65		\$11,666.67
*PARTIAL COVERAGE (15%):	\$0.00	\$0.00		\$0.00
*ADD. COVERAGE AND RESERVE (10%):	\$1,166.67	\$2,258.67		\$1,166.67
ANNUAL NEW DEBT PER CONNECTION:	\$137.99	\$267.15		\$137.99
O & M + FUNDED DEPRECIATION:	\$52,578.00	\$52,578.00		\$52,578.00
OTHER DEBT + COVERAGE:	\$0.00	\$0.00		\$0.00
REPLACEMENT RESERVE ACCOUNT:	\$3,212.23	\$3,758.23		\$3,212.23
ANNUAL EXPENSES PER CONNECTION:	\$599.89	\$605.77		\$599.89
TOTAL SYSTEM EXPENSES	\$68,623.57	\$81,181.55		\$68,623.57
TAX REVENUE:	\$0.00	\$0.00		\$0.00
<u>RESIDENCE</u>				
MONTHLY NEEDED WATER BILL:	\$61.49	\$72.74		\$61.49
% OF ADJUSTED GROSS INCOME:	3.83%	4.54%		3.83%

* Equivalent Residential Connections

Ticaboo

PROPOSED BOND REPAYMENT SCHEDULE

50 % Loan & 50 % Grant

PRINCIPAL	\$350,000.00	ANTICIPATED CLOSING DATE	09-Mar-15
INTEREST	0.00%	FIRST P&I PAYMENT DUE	01-Jul-16
TERM	30	REVENUE BOND	
NOMIN. PAYMENT	\$11,666.67	PRINC PREPAID:	\$0.00

YEAR	BEGINNING BALANCE	DATE OF PAYMENT	PAYMENT	PRINCIPAL	INTEREST	ENDING BALANCE	PAYM NO.
2015	\$350,000.00		\$0.00 *	\$0.00	\$0.00	\$350,000.00	0
2016	\$350,000.00		\$12,000.00	\$12,000.00	\$0.00	\$338,000.00	1
2017	\$338,000.00		\$12,000.00	\$12,000.00	\$0.00	\$326,000.00	2
2018	\$326,000.00		\$12,000.00	\$12,000.00	\$0.00	\$314,000.00	3
2019	\$314,000.00		\$12,000.00	\$12,000.00	\$0.00	\$302,000.00	4
2020	\$302,000.00		\$12,000.00	\$12,000.00	\$0.00	\$290,000.00	5
2021	\$290,000.00		\$12,000.00	\$12,000.00	\$0.00	\$278,000.00	6
2022	\$278,000.00		\$12,000.00	\$12,000.00	\$0.00	\$266,000.00	7
2023	\$266,000.00		\$12,000.00	\$12,000.00	\$0.00	\$254,000.00	8
2024	\$254,000.00		\$12,000.00	\$12,000.00	\$0.00	\$242,000.00	9
2025	\$242,000.00		\$12,000.00	\$12,000.00	\$0.00	\$230,000.00	10
2026	\$230,000.00		\$12,000.00	\$12,000.00	\$0.00	\$218,000.00	11
2027	\$218,000.00		\$11,000.00	\$11,000.00	\$0.00	\$207,000.00	12
2028	\$207,000.00		\$12,000.00	\$12,000.00	\$0.00	\$195,000.00	13
2029	\$195,000.00		\$11,000.00	\$11,000.00	\$0.00	\$184,000.00	14
2030	\$184,000.00		\$12,000.00	\$12,000.00	\$0.00	\$172,000.00	15
2031	\$172,000.00		\$11,000.00	\$11,000.00	\$0.00	\$161,000.00	16
2032	\$161,000.00		\$12,000.00	\$12,000.00	\$0.00	\$149,000.00	17
2033	\$149,000.00		\$11,000.00	\$11,000.00	\$0.00	\$138,000.00	18
2034	\$138,000.00		\$12,000.00	\$12,000.00	\$0.00	\$126,000.00	19
2035	\$126,000.00		\$11,000.00	\$11,000.00	\$0.00	\$115,000.00	20
2036	\$115,000.00		\$12,000.00	\$12,000.00	\$0.00	\$103,000.00	21
2037	\$103,000.00		\$11,000.00	\$11,000.00	\$0.00	\$92,000.00	22
2038	\$92,000.00		\$12,000.00	\$12,000.00	\$0.00	\$80,000.00	23
2039	\$80,000.00		\$11,000.00	\$11,000.00	\$0.00	\$69,000.00	24
2040	\$69,000.00		\$12,000.00	\$12,000.00	\$0.00	\$57,000.00	25
2041	\$57,000.00		\$11,000.00	\$11,000.00	\$0.00	\$46,000.00	26
2042	\$46,000.00		\$12,000.00	\$12,000.00	\$0.00	\$34,000.00	27
2043	\$34,000.00		\$11,000.00	\$11,000.00	\$0.00	\$23,000.00	28
2044	\$23,000.00		\$12,000.00	\$12,000.00	\$0.00	\$11,000.00	29
2045	\$11,000.00		\$11,000.00	\$11,000.00	\$0.00	\$0.00	30
			\$350,000.00	\$350,000.00	\$0.00		

*Interest Only Payment

Ticaboo

DWB Loan Terms

Local Share (total):	\$	-
Other Agency Funding:	\$	-
DWB Grant Amount:	\$	350,000
DWB Loan Amount:	\$	350,000
DWB Loan Term:		30
DWB Loan Interest:		0.00%
DWB Loan Payment:	\$	11,667

DW Expenses (Estimated)

Proposed Facility Capital Cost:	#VALUE!
Existing Facility O&M Expense:	\$ 52,578
Proposed Facility O&M Expense:	\$ 52,578
O&M Inflation Factor:	1.0%
Existing Debt Service:	\$ -

DW Revenue Sources (Projected)

Beginning Cash:	\$	-
Existing Customers (ERC):		93
Projected Growth Rate:		1.0%
Impact Fee/Connection Fee:	\$	3,500
Current Monthly User Charge:	\$	61.23
Needed Average Monthly User Charge:	\$	61.49

DW Revenue Projections

Yr	Growth Rate (%)	Annual Growth (ERC)	Total Users (ERC)	User Charge Revenue	Impact Fee Revenue	Property Tax Revenue	Total Revenue	DWB Loan Repayment	DWB Loan Reserves	Remaining Principal	Principal Payment	Interest Payment	Existing DW Debt Service	O&M Expenses	Total Expenses	Debt Service Ratio	
0	1.0%	1	93	68,332	3,500	-	71,832	-	-	350,000	-	-	-	52,578	52,578	-	
1	1.0%	1	94	69,361	3,500	-	72,861	12,000	1,167	338,000	12,000	-	-	52,578	65,745	1.69	
2	1.0%	1	95	70,099	3,500	-	73,599	12,000	1,167	326,000	12,000	-	-	53,104	66,270	1.71	
3	1.0%	1	96	70,837	3,500	-	74,337	12,000	1,167	314,000	12,000	-	-	53,635	66,801	1.73	
4	1.0%	1	97	71,575	3,500	-	75,075	12,000	1,167	302,000	12,000	-	-	54,171	67,338	1.74	
5	1.0%	1	98	72,313	3,500	-	75,813	12,000	1,167	290,000	12,000	-	-	54,713	67,880	1.76	
6	1.0%	1	99	73,051	3,500	-	76,551	12,000	1,167	278,000	12,000	-	-	55,260	68,427	1.77	
7	1.0%	1	100	73,789	3,500	-	77,289	12,000	1,167	266,000	12,000	-	-	55,813	68,979	1.79	
8	1.0%	1	101	74,527	3,500	-	78,027	12,000	1,167	254,000	12,000	-	-	56,371	69,537	1.80	
9	1.0%	1	102	75,265	3,500	-	78,765	12,000	1,167	242,000	12,000	-	-	56,934	70,101	1.82	
10	1.0%	1	103	76,002	3,500	-	79,502	12,000	1,167	230,000	12,000	-	-	57,504	70,670	1.83	
11	1.0%	1	104	76,740	3,500	-	80,240	12,000	1,167	218,000	12,000	-	-	58,079	70,079	1.85	
12	1.0%	1	105	77,478	3,500	-	80,978	11,000	1,167	207,000	11,000	-	-	58,660	69,660	2.03	
13	1.0%	1	106	78,216	3,500	-	81,716	12,000	1,167	195,000	12,000	-	-	59,246	71,246	1.87	
14	1.0%	1	107	78,954	3,500	-	82,454	11,000	1,167	184,000	11,000	-	-	59,839	70,839	2.06	
15	1.0%	1	108	79,692	3,500	-	83,192	12,000	1,167	172,000	12,000	-	-	60,437	72,437	1.90	
16	1.0%	1	109	80,430	3,500	-	83,930	11,000	1,167	161,000	11,000	-	-	61,041	72,041	2.08	
17	1.0%	1	110	81,168	3,500	-	84,668	12,000	1,167	149,000	12,000	-	-	61,652	73,652	1.92	
18	1.0%	1	111	81,906	3,500	-	85,406	11,000	1,167	138,000	11,000	-	-	62,268	73,268	2.10	
19	1.0%	1	112	82,643	3,500	-	86,143	12,000	1,167	126,000	12,000	-	-	62,891	74,891	1.94	
20	1.0%	1	113	83,381	3,500	-	86,881	11,000	1,167	115,000	11,000	-	-	63,520	74,520	2.12	
21	1.0%	2	115	84,857	7,000	-	91,857	12,000	1,167	103,000	12,000	-	-	64,155	76,155	2.31	
22	1.0%	1	116	85,595	3,500	-	89,095	11,000	1,167	92,000	11,000	-	-	64,797	75,797	2.21	
23	1.0%	1	117	86,333	3,500	-	89,833	12,000	1,167	80,000	12,000	-	-	65,445	77,445	2.03	
24	1.0%	1	118	87,071	3,500	-	90,571	11,000	1,167	69,000	11,000	-	-	66,099	77,099	2.22	
25	1.0%	1	119	87,809	3,500	-	91,309	12,000	1,167	57,000	12,000	-	-	66,760	78,760	2.05	
26	1.0%	1	120	88,547	3,500	-	92,047	11,000	1,167	46,000	11,000	-	-	67,428	78,428	2.24	
27	1.0%	2	122	90,022	7,000	-	97,022	12,000	1,167	34,000	12,000	-	-	68,102	80,102	2.41	
28	1.0%	1	123	90,760	3,500	-	94,260	11,000	1,167	23,000	11,000	-	-	68,783	79,783	2.32	
29	1.0%	1	124	91,498	3,500	-	94,998	12,000	1,167	11,000	12,000	-	-	69,471	81,471	2.13	
30	1.0%	1	125	92,236	3,500	-	95,736	11,000	1,167	-	11,000	-	-	70,166	81,166	2.32	
Total Paid in Debt Service =											350,000	-	-	-	-	-	-

Agenda Item

5(C)(ii)(a)

DRINKING WATER BOARD
BOARD PACKET FOR CONSTRUCTION LOAN
AUTHORIZATION

APPLICANT'S REQUEST:

West Erda Improvement District (WEID) is requesting an additional \$144,000 in funding to upgrade the originally proposed 12-inch transmission line, delivering water from Erda Acres to WEID, to a 16-inch transmission line. In addition, WEID is requesting that the loan repayment schedule be restructured to have smaller payments early in the loan, with balloon payments towards the end.

STAFF COMMENTS:

On November 7, 2014, The Drinking Water Board authorized WEID a loan of \$1,478,600 at 0% interest for 30 years with \$739,600 in principal forgiveness.

The \$144,000 increase from the original project amount is a result from increasing the 12-inch diameter transmission pipe to 16-inch transmission pipe. The justifications for this increase are as follows:

- Tooele County officials have determined that they will not be able to obtain the positive public support for the project without reducing the amount of loan secured with user fees.
- Tooele County Officials have decided that they will secure a significant portion of the loan with other County revenues temporarily, with the intent to be reimbursed through impact fees as individuals and possibly entities connect to the line.
- For this option to be feasible there needs to be enough excess capacity in the transmission line system to attract and support potential future growth so the County can recuperate their costs.
- The additional capacity provided in the 16-inch line appears to provide enough excess capacity required to recover County loan payments through impact fee and connection charges.
- Furthermore, a recent house fire in a nearby water system was not able to be suppressed adequately due to inadequate hydraulic capacity of system feeding fire hydrants. The public is sensitive to this and will be looking for assurance that the system is obviously adequately sized. Increasing the transmission line to 16-inch diameter will help to convince those in the fire suppression expansion area to pay a monthly "fire suppression" fee.

The County feels that the expansion of the service area along the transmission line will happen more quickly if they have the capacity available. However, the specific areas of expansion have not been solidified. They have discussed the possibility of connecting the State Prison, if it relocates to this area. They have agreed that the Prison would likely require a separate system due to the size and water demand and would not be connecting to the transmission line.

The local MAGI for the WEID is \$29,797, which is 79% of the State MAGI. The current 17 connections have a water bill of approximately \$79 per month, which is 3.18% of local MAGI, therefore the District qualifies to be considered for additional subsidization. Maintaining consistency with the original funding package (50% loan, 50% grant), a loan of \$811,000 at 0% interest for 30 year, with a grant of \$811,600, would result in the following water bills for the 3 areas involved in the project, based on the first five years of the graduated repayment schedule:

District Areas:	ERC	Current Water Bill	Water Bill after Project	% MAGI
WEID (current)	18	\$79	\$99	3.99
WEID (on private wells)	35	\$0	\$20	.81
WEID (expanded)	54	\$0	\$12	.48

Note: The existing WEID boundary will be paying 62 % of the annual debt service and the WEID expanded area will pay 38%. These water bills are subject to change, based on the County's involvement and impact fees from growth, both being used towards the annual debt service.

Financial Assistance Committee Recommends:

The Drinking Water Board amend the original authorization to a loan of \$1,622,600 at 0% interest for 30 years to West Erda Improvement District with \$811,600 in principle forgiveness, with a graduated repayment schedule as proposed in the attached evaluation.

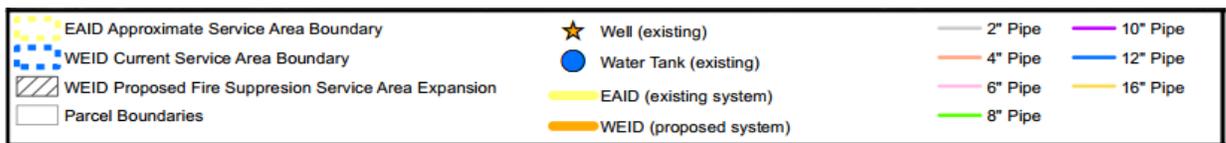
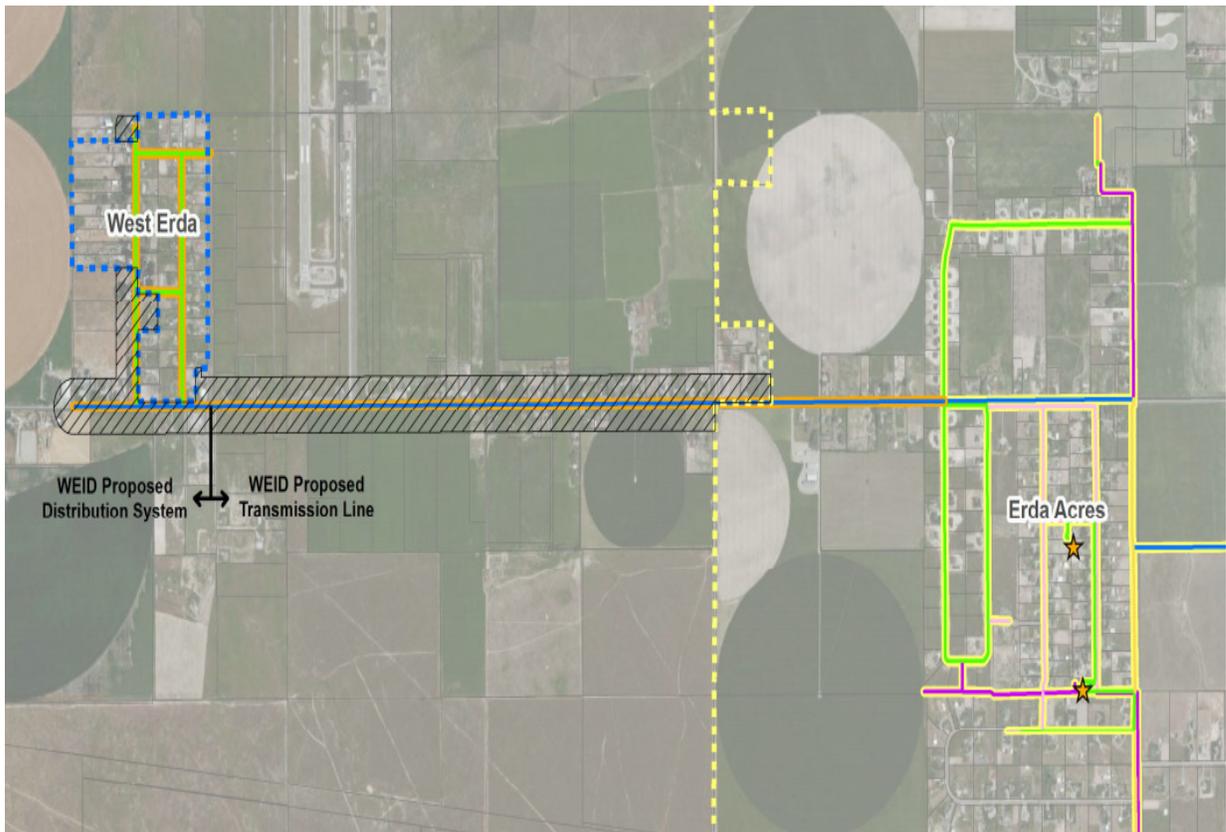
Funding is Contingent Upon:

- 1) The District's authority and ability to expand their boundary and implement the cost share proposed for the project to include all 53 lots in WEID as well as the 54 lots along the transmission line that are currently not included in their boundary.**
- 2) Evidence of public support for the cost share on the project for all lots impacted.**

APPLICANT'S LOCATION:

WEID is located in Tooele County.

MAP OF APPLICANT'S LOCATION:



PROJECT DESCRIPTION:

The WEID Project will include the following tasks:

- Connecting to the existing EAID with approximately 11,000 feet of 16-inch transmission line with appurtenances.
- WEID distribution system upgrades will include installing approximately 5,800 feet of 8-inch water line, along with 34 fire hydrants and valves. 53 service connections and service meters will be installed.
- Capacity in the existing EAID storage and source facilities will be purchased by WEID.

The cost for the project is being shared by the different areas being served and benefitted by the project. The existing boundary of the WEID consists of 17 lots currently connected to the system and 36 lots on private wells. They will share the cost of the distribution systems improvements, the storage and source capacity buy-in from EAID and a portion of the transmission line (62% of total project cost). The WEID expanded area, along the transmission line, consists of 54 connections. They will share the cost of a portion of the transmission line, and a portion of the storage and source capacity buy-in from EAID as they will be benefitting by the fire suppression that the line and hydrants provide (38% of total project cost).

If remaining contingency funds are available at the end of the project, the County would like to use funds for:

- Identifying and acquiring a pipeline easement for a future culinary water transmission pipeline from Erda Way to the south, approximately 8,000 feet, to a future culinary water storage tank location
- Identifying and acquiring property for a future culinary water tank to serve the future needs of WEID and identified expansion areas
- Identification of other possible utility corridors for possible likely connections to other adjacent public water system(s) who could be interested in operating and maintaining the WEID system in the future
- Preparing an Impact Fee Analysis and adoption

POPULATION GROWTH:

According to the Utah State Governor's Office of Planning and Budgeting, the anticipated growth rate for Tooele County is approximately 2.66% per year over the next 40 years. Based on this growth rate, West Erda could expect the following increase in population:

	<u>Year</u>	<u>Population</u>
Current:	2014	158
Projected:	2050	309

IMPLEMENTATION SCHEDULE:

Apply to DWB for Construction Funds:	October 2014
SRF Committee Conference Call:	December 2014
DWB Funding Authorization:	January 2014
Advertise Environmental Assessment:	February 2014
Complete Design:	February 2014
Plan Approval:	March 2014
Advertise for Bids:	March 2014
Bid Opening:	March 2014
Loan Closing:	April 2014
Begin Construction:	April 2014
Complete Construction:	July 2014
Receive Operating Permit:	August 2014

COST ESTIMATE:

Legal and Bonding	\$29,000
Environmental	\$4,000
Inter-local Agreements	\$11,000
Engineering- Design	\$67,000
Engineering- CMS	\$73,000
Engineering- local agreements	\$12,000
Storage/Source Buy-in	\$120,200
Construction	\$1,136,700
Contingency	<u>\$169,600</u>
Total Project Cost	\$1,622,600

COST ALLOCATION:

The cost allocation proposed for the project is shown below.

<u>Funding Source</u>	<u>Cost Sharing</u>	<u>Percent of Project</u>
DWB Loan (0%, 30-yr)	\$811,000	50%
DWB Grant	<u>\$811,600</u>	<u>50%</u>
Total Amount	\$1,622,600	100%

ESTIMATED ANNUAL COST OF WATER SERVICE (first 10 years):

Operation and Maintenance plus Depreciation: \$29,876 (NOTE: This is based on 2014, which was much higher than typical years).

Existing DW Debt Service: \$0

DDW Debt Service (0%, 30-yrs): \$15,000

DDW Debt Reserve: \$1,500

Replacement Reserve Account: \$4,055

Monthly Cost/ERC to WEID (current): \$99

Monthly Cost/ERC to WEID (on private wells): \$20

Monthly Cost/ERC to WEID expanded: \$12

Cost as % MAGI to WEID current: 4.11%

West Erda Improvement District

January 9, 2015

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APPLICANT:

West Erda Improvement District
47 South Main
Tooele, Utah 84074

PRESIDING OFFICIAL &
CONTACT PERSON:

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Tooele, UT 84074
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jhoughton@co.tooele.ut.us

BOND ATTORNEY:

Alex Buxton
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CONSULTING ENGINEER:

Darin Robinson
Jones and DeMille Engineering
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Richfield, UT 84701
Email: darin@jonesanddemille.com
435-896-8266

DRINKING WATER BOARD FINANCIAL ASSISTANCE EVALUATION

SYSTEM NAME: West Erda
 COUNTY: Tooele
 PROJECT DESCRIPTION: Transmission Line and Distribution Improvements

FUNDING SOURCE: Federal SRF

50 % Loan & 50 % P.F.

ESTIMATED POPULATION:	158	NO. OF CONNECTIONS:	17 *	SYSTEM RATING:	APPROVED
CURRENT AVG WATER BILL:	\$78.89 *			PROJECT TOTAL:	\$1,622,600
CURRENT % OF AGI:	3.18%	FINANCIAL PTS:	53	LOAN AMOUNT:	\$811,000
ESTIMATED MEDIAN AGI:	\$29,797			PRINC. FORGIVENESS:	\$811,600
STATE AGI:	\$39,325			TOTAL REQUEST:	\$1,622,600
SYSTEM % OF STATE AGI:	76%				

	@ ZERO % RATE	@ RBBI MKT RATE		AFTER REPAYMENT PENALTY & POINTS
SYSTEM	0%	4.93%		0.00%
ASSUMED LENGTH OF DEBT, YRS:	30	30		30
ASSUMED NET EFFECTIVE INT. RATE:	0.00%	4.93%		0.00%
REQUIRED DEBT SERVICE:	\$27,033.33	\$52,336.49		\$27,033.33
*PARTIAL COVERAGE (15%):	\$4,055.00	\$7,850.47		\$4,055.00
*ADD. COVERAGE AND RESERVE (10%):	\$2,703.33	\$5,233.65		\$2,703.33
ANNUAL NEW DEBT PER CONNECTION:	\$1,987.75	\$3,848.27		\$1,987.75
O & M + FUNDED DEPRECIATION:	\$29,876.00	\$29,876.00		\$29,876.00
OTHER DEBT + COVERAGE:	\$0.00	\$0.00		\$0.00
REPLACEMENT RESERVE ACCOUNT:	\$0.00	\$0.00		\$0.00
ANNUAL EXPENSES PER CONNECTION:	\$1,757.41	\$1,757.41		\$1,757.41
TOTAL SYSTEM EXPENSES	\$63,667.67	\$95,296.62		\$63,667.67
TAX REVENUE:	\$0.00	\$0.00		\$0.00
RESIDENCE				
MONTHLY NEEDED WATER BILL:				
WEID	\$312.10	\$467.14		\$112.00
WEID on wells				\$33.00
WEID expanded				\$20.00
% OF ADJUSTED GROSS INCOME:	12.57%	18.81%		4.51%

* Equivalent Residential Connections

West Erda

PROPOSED BOND REPAYMENT SCHEDULE

50 % Loan & 50 % P.F.

PRINCIPAL	\$811,000.00	ANTICIPATED CLOSING DATE	01-Feb-15
INTEREST	0.00%	FIRST P&I PAYMENT DUE	01-Jan-16
TERM	30	REVENUE BOND	
NOMIN. PAYMENT	\$27,033.33	PRINC PREPAID:	\$0.00

YEAR	BEGINNING BALANCE	DATE OF PAYMENT	PAYMENT	PRINCIPAL	INTEREST	ENDING BALANCE	PAYM NO.
2015	\$811,000.00		\$0.00 *	\$0.00	\$0.00	\$811,000.00	0
2016	\$811,000.00		\$14,000.00	\$14,000.00	\$0.00	\$797,000.00	1
2017	\$797,000.00		\$14,000.00	\$14,000.00	\$0.00	\$783,000.00	2
2018	\$783,000.00		\$15,000.00	\$15,000.00	\$0.00	\$768,000.00	3
2019	\$768,000.00		\$15,000.00	\$15,000.00	\$0.00	\$753,000.00	4
2020	\$753,000.00		\$16,000.00	\$16,000.00	\$0.00	\$737,000.00	5
2021	\$737,000.00		\$16,000.00	\$16,000.00	\$0.00	\$721,000.00	6
2022	\$721,000.00		\$17,000.00	\$17,000.00	\$0.00	\$704,000.00	7
2023	\$704,000.00		\$18,000.00	\$18,000.00	\$0.00	\$686,000.00	8
2024	\$686,000.00		\$18,000.00	\$18,000.00	\$0.00	\$668,000.00	9
2025	\$668,000.00		\$19,000.00	\$19,000.00	\$0.00	\$649,000.00	10
2026	\$649,000.00		\$22,000.00	\$22,000.00	\$0.00	\$627,000.00	11
2027	\$627,000.00		\$23,000.00	\$23,000.00	\$0.00	\$604,000.00	12
2028	\$604,000.00		\$24,000.00	\$24,000.00	\$0.00	\$580,000.00	13
2029	\$580,000.00		\$24,000.00	\$24,000.00	\$0.00	\$556,000.00	14
2030	\$556,000.00		\$25,000.00	\$25,000.00	\$0.00	\$531,000.00	15
2031	\$531,000.00		\$30,000.00	\$30,000.00	\$0.00	\$501,000.00	16
2032	\$501,000.00		\$31,000.00	\$31,000.00	\$0.00	\$470,000.00	17
2033	\$470,000.00		\$31,000.00	\$31,000.00	\$0.00	\$439,000.00	18
2034	\$439,000.00		\$32,000.00	\$32,000.00	\$0.00	\$407,000.00	19
2035	\$407,000.00		\$32,000.00	\$32,000.00	\$0.00	\$375,000.00	20
2036	\$375,000.00		\$38,000.00	\$38,000.00	\$0.00	\$337,000.00	21
2037	\$337,000.00		\$37,000.00	\$37,000.00	\$0.00	\$300,000.00	22
2038	\$300,000.00		\$38,000.00	\$38,000.00	\$0.00	\$262,000.00	23
2039	\$262,000.00		\$37,000.00	\$37,000.00	\$0.00	\$225,000.00	24
2040	\$225,000.00		\$38,000.00	\$38,000.00	\$0.00	\$187,000.00	25
2041	\$187,000.00		\$37,000.00	\$37,000.00	\$0.00	\$150,000.00	26
2042	\$150,000.00		\$38,000.00	\$38,000.00	\$0.00	\$112,000.00	27
2043	\$112,000.00		\$37,000.00	\$37,000.00	\$0.00	\$75,000.00	28
2044	\$75,000.00		\$38,000.00	\$38,000.00	\$0.00	\$37,000.00	29
2045	\$37,000.00		\$37,000.00	\$37,000.00	\$0.00	\$0.00	30
			\$811,000.00	\$811,000.00	\$0.00		

*Interest Only Payment

Agenda Item

6

PROPOSED SUBSTANTIVE CHANGES FOR RULE *R309-500*

Rule R309-500, *Plan Review, Operation and Maintenance Requirements*, has not been completely reviewed and revised for several years. Division of Drinking Water (DDW) staff believes the rule needs to be revised to accurately reflect the current operation and improve the efficiency of the plan review program.

The proposed revisions to *R309-500* include the following:

1. Rewrite the criteria to clarify how a public water system becomes eligible to request Plan Submittal Waivers.
2. Outline the process for public water systems to obtain Plan Submittal Waivers once eligible.
3. Clarify that approval of waste and wastewater disposal methods related to drinking water projects may be required prior to drinking water plan approval.
4. Provide references to other rules for clarification and simplification and to avoid duplication and contradiction.
5. Eliminate the list of detailed information needed on a project notification form and simply reference the use of the Division's project notification form.
6. Make miscellaneous changes to correct formatting and grammar to make the rule language easier to understand.

Two versions of the *R309-500* revision are enclosed:

- The Division of Administrative Rules (DAR) Version: DAR maintains the official version of rules and oversees the rulemaking process. The official rulemaking document for the *R309-500* revision is in the specific format required by DAR. The DAR format does not contain indentation, uses strikeouts for deleted words, and underlines added words.
- The Division of Drinking Water Version: In addition to the DAR version, DDW provides a separate version of the rule to the public. The content of the DDW version is the same as the DAR version. However, the DDW version is formatted for easier reading (with indentation) and contains DDW's interpretations of the rule (in the form of guidance paragraphs). The guidance paragraphs are not part of the official rule.

Staff Recommendation: DDW staff believes that the proposed changes to *R309-500* are substantive and requests authorization to start the rulemaking process and file the proposed rule amendments for publication in the Utah Bulletin.

R309. Environmental Quality, Drinking Water.

R309-500. Facility Design and Operation: Plan Review, Operation and Maintenance Requirements.

R309-500-1. Purpose.

The purpose of this rule is to describe plan review procedures and requirements, clarify projects requiring review, and inspection requirements for drinking water projects. It is intended to be applied in conjunction with rules R309-500 through R309-550. Collectively, these rules govern the design, construction, operation and maintenance of public drinking water system facilities. These rules are intended to assure that such facilities are reliably capable of supplying adequate quantities of water which consistently meet applicable drinking water quality requirements and do not pose a threat to ~~[general-]~~public health.

R309-500-2. Authority.

This rule is promulgated by the Drinking Water Board as authorized by Title 19, Environmental Quality Code, Chapter 4, Safe Drinking Water Act, Subsection 104(1)(a)(ii) of the Utah Code and in accordance with Title 63G, Chapter 3 of the same, known as the Administrative Rulemaking Act.

R309-500-3. Definitions.

Definitions for certain terms used in this rule are given in R309-110 but may be further clarified herein.

R309-500-4. General.

(1) Construction ~~[and Operation-]~~ of New Facilities and Modification of Existing Facilities.

~~(a) [As authorized in 19-4-106(3) of the Utah Code, the Director may review p]~~ Plans, specifications, and other data pertinent to ~~[proposed or expanded water supply systems to insure proper design and construction]~~ new facilities, or existing facilities of public drinking water systems not previously reviewed, shall be submitted to the Director for review for conformance with rules R309-500 through R309-550. All submittals shall be from the public water system or its agent.

~~[Plans and specifications and a business plan as required by R309-800-5, along with a completed project notification form, shall be submitted to the Director for any new water systems or previously un-reviewed water systems unless acceptable data can be presented that the proposed or existing water system will not become a "public water system" as defined in 19-4-102 of the Utah Code or in R309-110.~~

~~Construction of new facilities for public water systems or existing facilities of previously un-reviewed public drinking water systems shall conform to rules R309-500 through R309-550; the "Facility Design and Operation" rules. There may be times in which the requirements of the Facility Design and Operation rules are not appropriate. Thus, the Director may grant an "exception" to the Facility Design and Operation rules if it can be shown that the granting of such an exception will not jeopardize the public health.]~~

(b) The Director has the authority to grant an exception to R309-500 through R309-550 per R309-105-6(2)(b).

(c) Construction of a public drinking water project shall not

begin until complete plans and specifications have ~~[been approved in writing]~~ received Plan Approval or a Plan Submittal Waiver has been issued by the Director ~~[unless waivers have been issued as allowed by R309-500-6(3). This approval shall be referred to as the Plan Approval]~~.

(d) ~~[Furthermore, n]~~ No new public drinking water facility shall be put into operation until the Director has issued an Operating Permit or a Plan Submittal Waiver ~~[written approval to do so has been given by the Director or this requirement waived. This approval is referred to as the Operating Permit]~~.

(2) Minimum Quantity and Quality Requirements for Existing Facilities.

All existing public drinking water systems shall be capable of reliably delivering water ~~[which]~~ that meets ~~[-the minimum]~~ current ~~[standard of]~~ drinking water minimum quantity and quality requirements. The Director may require modification of existing systems in accordance with R309-500 through R309-550 when such modifications are needed to reliably achieve minimum quantity and quality requirements.

(3) Operation and Maintenance ~~[-of Existing Facilities]~~.

Public drinking water system facilities shall be operated and maintained in a manner ~~[which]~~ that protects ~~[-the]~~ public health. As a minimum, ~~[the]~~ operation and maintenance procedures ~~[of]~~ described in R309-500 through R309-550 shall be ~~[adhered to]~~ met.

R309-500-5. Public Drinking Water Project.

(1) Definition.

A public drinking water project, requiring ~~[the]~~ submittal of a ~~[p]~~ Project ~~[n]~~ Notification ~~[f]~~ Form ~~[along with]~~ and plans and specifications, is any of the following:

(a) ~~[The e]~~ Construction of any facility for a proposed drinking water system ~~[-(see 19-4-106(3) of the Utah Code or R309-500-4(1) above describing the authority of the Director)]~~.

(b) Any addition to, or modification of, the facilities of an existing public drinking water system ~~[which]~~ that may affect the quality or quantity of water delivered.

(c) Any activity, other than on-going operation and maintenance procedures, ~~[which]~~ that may affect the quality or quantity of water delivered by an existing public drinking water system. Such activities may include:

(i) the interior re-coating or re-lining of any raw or drinking water storage tank, or water storage chamber within any treatment facility,

(ii) the ~~[]~~ in-situ ~~[]~~ re-lining of any pipeline,

(iii) a change or addition of ~~[any primary coagulant]~~ a water treatment ~~[chemical (excluding filter, flocculent or coagulant aids) when the proposed chemical does not appear on a list of chemicals pre-approved by the Director for a specific treatment facility]~~ process, ~~[-and]~~

(iv) the re-development of any spring or well source, ~~[or]~~ and

(v) replacement of a well pump with one of different capacity or deepening a well.

(2) On-going Operation and Maintenance Procedures.

On-going operation and maintenance procedures are not considered

public drinking water projects and, accordingly, are not subject to the project notification, plan approval and operating permit requirements of this rule. However, these activities shall be carried out in accordance with all ~~[operation and maintenance]~~ requirements contained in R309-500 through R309-550 and specifically the design, construction, disinfection, flushing and bacteriological sampling and testing requirements ~~[of ANSI/AWWA C651-05 for pipelines, ANSI/AWWA C652-02 for storage facilities, and ANSI/AWWA C654-03 for wells]~~ before ~~[they]~~ the facilities are placed back into service. The following activities are considered to be on-going operation and maintenance procedures:

- (a) pipeline leak repair,
- (b) replacement of existing deteriorated pipeline where the new pipeline segment is the same size as the old pipeline or the new segment is upgraded to meet the minimum pipeline sizes required by R309-550-5(4) or larger sizes as determined by a hydraulic analysis in accordance with R309-550-5(3),
- (c) tapping existing water mains with corporation stops so as to make connection to new service laterals to individual structures,
- (d) distribution pipeline additions where the pipeline size is the same as the main supplying the addition or the pipeline addition meets the minimum pipeline sizes required by R309-550-5(4) or larger sizes as determined by a hydraulic analysis in accordance with R309-550-5(3), the length is less than 500 feet and contiguous segments of new pipe total less than 1000 feet in any fiscal year,
- (e) entry into a drinking water storage facility for the purposes of inspection, cleaning and maintenance, and
- (f) replacement of equipment or pipeline appurtenances with the same type, size and rated capacity (fire hydrants, valves, pressure regulators, meters, service laterals, chemical feeders and booster pumps including deep well pumps).

R309-500-6. Plan Approval Procedure.

- (1) Project Notification.

The Division shall be notified prior to the construction of any "public drinking water project" as defined in R309-500-5(1) above.

The notification may be prior to or simultaneous with submission of construction plans and specifications as required by R309-500-6(2) below. Notification shall be made ~~[by the management of the regulated public water system]~~ on a form provided by the Division. ~~[—Information required by this form shall be determined by the Division and may include:—~~

- ~~(a) whether the project is for a new or existing public drinking water system,~~
- ~~(b) the professional engineer, registered in the State of Utah, designing the project and his/her experience designing public drinking water projects within the state,~~
- ~~(c) the individual(s) who will be inspecting the project during construction and whether such inspection will be full-time or part time,~~
- ~~(d) whether required approvals or permits from other governmental agencies (e.g. local planning commissions, building inspectors, Utah Division of Water Rights) are awaiting approval by the Director, the agency's name and contact person,~~

~~_____ (e) the fire marshal, fire district or other entity having legal authority to specify requirements for fire suppression in the project area,~~

~~_____ (f) for community and non-transient non-community public water systems or any public water system treating surface water, the name of the certified operator who is, or will be, in direct responsible charge of the water system,~~

~~_____ (g) whether the water system has a registered professional engineer employed, appointed or designated as being directly responsible for the entire system design and his or her name and whether the system is requesting waiving of plan submittal under conditions of R309-500-6 (3),~~

~~_____ (h) the anticipated construction schedule, and~~

~~_____ (i) a description of the type of legal entity responsible for the water system (i.e. corporation, political subdivision, mutual ownership, individual ownership, etc.) and the status of the entity with respect to the rules of the Utah Public Service Commission.]~~

(2) Pre-Construction Requirements.

All of the following shall be accomplished before construction of any public drinking water project ~~[commences]~~ begins:

(a) ~~[Contract documents, p]~~ Plans and specifications for a public drinking water project shall be submitted to the Division at least 30 days prior to the date on which action is desired ~~[unless the system is eligible for and has requested waiving of plan submittal]~~.

(b) ~~[Any s]~~ Submittals required [shall] may include engineering reports, ~~[pipe network-]~~ hydraulic analyses of the existing system and additions, local requirements for fire flow and duration, proximity of sewers and other utilities, water consumption data, supporting information, evidence of rights-of-way and reference to any previously submitted master plans pertinent to the project, ~~[along with-]~~ a description of a program for keeping existing water works facilities in operation during construction so as to minimize interruption of service, etc.

~~[[b]c) [Plans and specifications shall be prepared for every anticipated public water system project. The design utilized shall conform to the requirements of R309-500 through R309-550. Furthermore, the p] Plans and specifications submitted shall be complete and sufficiently detailed [to assure that the project shall be properly constructed] for actual construction. [Drawings shall be compatible with Division's document storage and microfilming practice.] In some cases, a profile drawing may be required to show potential water line conflicts and clearances.~~

(d) Drawings ~~[which]~~ that are illegible or of unusual size ~~[shall] will~~ not be accepted for review. ~~[Drawing size shall not exceed 30" x 42" nor be less than 8-1/2" x 11".]~~

~~[[e]e) The plans and specifications shall be stamped and signed by a licensed professional engineer [in accordance with] as required by Section 58-22-602(2) of the Utah Code.~~

~~[[d]f) [Plans and specifications shall be reviewed for conformance with R309-500 through R309-550. No work shall commence on a public water system project until a plan approval has been issued by the Director unless conditions outlined in R309-500-6(3) are met and waiving of plan submittal has been requested.] If construction~~

or the ordering of substantial equipment has not commenced within one year, a renewal of the Plan Approval shall be obtained prior to proceeding with construction.

~~[(e) If, in the judgment of the Director, alternate designs or specific solutions can protect the public health to the same or greater extent as achieved in R309-500 through R309-550, the Director may grant an exception thereto (see the third paragraph of R309-500-4(1)).~~

~~_____ (f) Novel equipment or treatment techniques may be developed which are not specifically addressed by these rules. These may be accepted by the Director if it can be shown that:~~

~~_____ (i) the technique will produce water meeting the requirements of R309-200 of these rules,~~

~~_____ (ii) the Director has determined that it will protect public health to the same extent provided by comparable treatment processes outlined in these rules, and~~

~~_____ (iii) the Director has determined the technique is as reliable as any comparable treatment process outlined in these rules.~~

~~_____ (3) Waiving of Plan Submittal Requirement.~~

~~_____ With identification of a professional engineer, as indicated below, on a project notification form the plan submittal requirement may be waived for certain projects. In these instances, in lieu of plans and specifications, a "certification of rule conformance" shall be submitted along with the additional information required for an operating permit (see R309-500-9), signed by the professional engineer identified to Director in (b) or, if the system has not employed, appointed, or designated such, the registered professional engineer who prepared the items in (a). Projects eligible for this waiving of plan submittal are:~~

~~_____ (a) distribution system improvements (excluding pressure reducing valve stations and in-line booster pump stations) which conform to a "master plan" previously reviewed and approved by the Director and installed in accordance with the system's standard installation drawings, also previously reviewed and approved by the Director, or~~

~~_____ (b) distribution system improvements consisting solely of pipelines and pipeline appurtenances (excluding pressure reducing valve stations and in-line booster pump stations);~~

~~_____ (i) less than or equal to 4 inches in diameter in water systems (without fire hydrants) serving solely a residential population less than 3,300;~~

~~_____ (ii) less than or equal to 8 inches in diameter in water systems (with fire hydrants) providing water for mixed use (commercial, industrial, agricultural and/or residential) to a population less than 3,300;~~

~~_____ (iii) less than or equal to 12 inches in diameter in water systems (with fire hydrants) providing water for mixed use to a population between 3,300 and 50,000;~~

~~_____ (iv) less than or equal to 16 inches in diameter in water systems (with fire hydrants) providing water for mixed use to a population greater than 50,000.~~

~~_____ Additionally, the above systems in (b) shall employ, appoint or designate a registered professional engineer who is directly responsible for the entire public water system design and identify~~

~~this individual to the Director as well as have standard installation drawings previously reviewed and approved by the Director before being eligible for waiving of plan submittal requirements.]~~

(3) Eligibility for Plan Submittal Waivers.

In lieu of submitting plans and specifications for Plan Approval and obtaining Operating Permits, public water systems may request Plan Submittal Waivers for two types of water line projects (excluding booster pump stations) after first becoming eligible to request the waivers. The Director will issue written notification that a public water system is eligible to request the Plan Submittal Waivers described in R309-500-6(3)(a) and (3)(b) if the information provided is acceptable.

(a) Water Line Projects Included in an Approved Master Plan.

To become eligible to request this type of waiver, a public water system must submit standard installation drawings, which meet the requirements in R309-550, and a master plan, which is supported by a hydraulic analysis, to the Director for approval.

(b) Water Line Projects Included in (i) through (iii) below.

To become eligible to request this type of waiver, a public water system must submit standard installation drawings, which meet the requirements in R309-550, and identify in writing the professional engineer or engineers responsible for the oversight of the hydraulic analysis for and the design of the entire water system to the Director for approval.

(i) Water lines less than or equal to 8 inches in diameter in water systems providing water to a population less than 3,300;

(ii) Water lines less than or equal to 12 inches in diameter in water systems providing water to a population between 3,300 and 50,000; or

(iii) Water lines less than or equal to 16 inches in diameter in water systems providing water to a population greater than 50,000.

(4) Using Plan Submittal Waivers.

After becoming eligible to request Plan Submittal Waivers per R309-500-6(3), a public water system must complete the following when requesting a Plan Submittal Waiver for a water line project:

(a) Submit a complete Project Notification Form describing the project and specifying which Plan Submittal Waiver, R309-500-6(3)(a) or R309-500-6(3)(b), is being requested;

(b) For projects that will have a hydraulic impact, submit a certification of hydraulic analysis by a professional engineer per R309-511-6(1) indicating that the design will not result in unacceptable pressure and flow conditions (including fire flow if fire hydrants are installed);

(c) Submit a certification by a professional engineer, who is responsible for the design and construction of the project or has been designated by the water system in writing as the professional engineer directly responsible for the design of the entire water system, indicating that design and construction will meet the requirements of R309-500 through 550, that proper flushing and disinfection will be completed according to the appropriate ANSI/AWWA standard, that satisfactory bacteriological sample results will be obtained prior to placing the facilities into service, and that the water system will receive a copy of as-built or record drawings;

(d) Obtain a written Plan Submittal Waiver, in lieu of Plan

Approval, from the Director prior to the start of construction; and
(e) Comply with the conditions in R309-500-6(4)(c) prior to
placing the new facilities into service.

R309-500-7. Inspection ~~[D]~~ during Construction.

Staff from the Division, ~~[or] the Department of Environmental Quality, or~~ the ~~[appropriate]~~ local health department, after reasonable notice and presentation of credentials, may make visits to the work site to assure compliance with these rules.

R309-500-8. Change Orders.

Any deviations from approved plans or specifications affecting capacity, hydraulic conditions, operating units, the functioning of water treatment processes, or the quality of water to be delivered, shall be reported to the Director. ~~[If deemed appropriate, t]~~ The Director may require that revised plans and specifications be submitted for review. ~~[R]~~ If required, revised plans or specifications shall be submitted to the Division in time to permit the review and Director's approval of such plans or specifications before any construction work, which will be affected by such changes, is begun.

R309-500-9. ~~[Issuance of]~~ Operating Permit.

The Division shall be informed when a public drinking water project, or a well-defined phase thereof, is at or near completion.

The new or modified facility shall not be ~~[used]~~ placed into service until an ~~[an]~~ Operating Permit ~~[or a Plan Submittal Waiver]~~ is issued ~~[in writing,]~~ by the Director. ~~[This p]~~ The Operating Permit ~~[shall]~~ will not be issued until all of the following items are submitted and found to be acceptable for all projects. ~~[with the exception of d]~~ Distribution lines (not including in-line booster pump stations ~~[or pressure reducing stations])~~, ~~[which]~~ may be placed into service prior to submittal of all items if the professional engineer responsible for the entire system, as identified to the Director, has received items (1) and (4):

(1) ~~[a statement from a registered]~~ Certification of Rule Conformance by a professional engineer that all conditions of Plan Approval were accomplished ~~[("certification of rule conformance")]~~ and if applicable, changes made during construction were in conformance with rules R309-500 through 550,

(2) as-built or ~~[an]~~ record ~~[an]~~ drawings incorporating all changes to approved plans and specifications ~~[+]~~, unless no changes are made from previously submitted and approved plans during construction,

(3) confirmation that a copy of the as-built or ~~[an]~~ record ~~[an]~~ drawings has been received by the water system owner,

(4) evidence of proper flushing and disinfection in accordance with the appropriate ANSI/AWWA Standard,

(5) where appropriate, water quality data,

~~[6] a statement from the Engineer indicating what changes to the project were necessary during construction, and certification that all of these changes were in conformance with these rules ("certification of rule conformance"),]~~

~~[7]~~ (6) all other documentation which may have been required during the plan review process, and

(~~8~~7) confirmation that the water system owner has been provided with an Operation and Maintenance manual for the new facility if applicable.

R309-500-10. [~~Adequacy of~~Waste and Wastewater Disposal.

~~[P]Approval of plans and specifications [for new water systems, or facilities required as a result of proposed subdivision additions to existing water systems, shall only be approved if] may require evidence showing that the method[+s(+)] of waste and wastewater disposal [in the affected area] have been approved or accepted[, or been determined to be feasible,] by the [Director of the]Utah Division of Water Quality, [or]the [appropriate]local health agency, or the local authority for[-]:~~

~~(1) new drinking water facilities, including discharges from treatment facilities, discharges related to construction, etc., and~~

~~(2) new drinking water facilities serving proposed developments.~~

~~[R309-500-11. Financial Viability.~~

~~Owners of new or existing water systems are encouraged to develop realistic financial strategies for recouping the costs of constructing and operating their systems. Plans for water system facilities shall not be approved when it is obvious that public health will eventually be threatened because the anticipated usage of the system will not generate sufficient funds to insure proper operation and maintenance of the system (see also R309-352-5).]~~

R309-500-~~12~~11. Fee Schedule.

The Division may charge a fee [~~for~~]related to the review of plans and specifications. A fee schedule is available from the Division.

R309-500-~~13~~12. Other Permits.

~~[Local, county or other state permits may also be necessary before beginning construction of any drinking water project.]Local, county, federal, and other state authorities may impose different, more stringent, or additional requirements for public drinking water projects. Water systems may be required to comply with other permitting requirements before beginning construction of drinking water projects or placing new facilities into service.~~

~~[R309-500-14. Reference Documents.~~

~~All references made in R309-500 through R309-550 are available for inspection at the Division's office.]~~

~~[R309-500-15. Violations of These Rules.~~

~~Violations of rule contained in R309-500 through R309-550 are subject to the provisions of the Utah Safe Drinking Water Act (Title 19, Chapter 4 Section 109 of the Utah Code) and may be subject to fines and penalties.]~~

KEY: drinking water, plan review, operation and maintenance requirements, permits

Date of Enactment or Last Substantive Amendment: August 28, 2013

Notice of Continuation: March 22, 2010

Authorizing, and Implemented or Interpreted Law: 19-4-104

R309-500. Facility Design and Operation: Plan Review, Operation and Maintenance Requirements.

R309-500-1. Purpose.

The purpose of this rule is to describe plan review procedures and requirements, clarify projects requiring review, and inspection requirements for drinking water projects. It is intended to be applied in conjunction with rules R309-500 through R309-550. Collectively, these rules govern the design, construction, operation and maintenance of public drinking water system facilities. These rules are intended to assure that such facilities are reliably capable of supplying adequate quantities of water which consistently meet applicable drinking water quality requirements and do not pose a threat to ~~general~~ public health.

R309-500-2. Authority.

This rule is promulgated by the Drinking Water Board as authorized by Title 19, Environmental Quality Code, Chapter 4, Safe Drinking Water Act, Subsection 104(1)(a)(ii) of the Utah Code and in accordance with ~~63-46a-G~~, Chapter 3 of the same, known as the Administrative Rulemaking Act.

R309-500-3. Definitions.

Definitions for certain terms used in this rule are given in R309-110 but may be further clarified herein.

R309-500-4. General.

(1) Construction ~~and Operation~~ of New Facilities and Modification of Existing Facilities.

~~(a) As authorized in 19-4-106(3) of the Utah Code, the Director may review p~~Plans, specifications, and other data pertinent to ~~proposed or expanded water supply systems to insure proper design and construction~~ new facilities, or existing facilities of public drinking water systems not previously reviewed, shall be submitted to the Director for review for conformance with rules R309-500 through R309-550. All submittals shall be from the public water system or its agent.

~~Plans and specifications and a business plan as required by R309-800-5, along with a completed project notification form, shall be submitted to the Director for any new water systems or previously un-reviewed water systems unless acceptable data can be presented~~

~~that the proposed or existing water system will not become a "public water system" as defined in 19-4-102 of the Utah Code or in R309-110.~~

~~Construction of new facilities for public water systems or existing facilities of previously un-reviewed public drinking water systems shall conform to rules R309-500 through R309-550; the "Facility Design and Operation" rules. There may be times in which the requirements of the Facility Design and Operation rules are not appropriate. Thus, the Director may grant an "exception" to the Facility Design and Operation rules if it can be shown that the granting of such an exception will not jeopardize the public health.~~

~~(b) The Director has the authority to grant an exception to R309-500 through R309-550 per R309-105-6(2)(b).~~

~~(c) Construction of a public drinking water project shall not begin until complete plans and specifications have been approved in writing received Plan Approval or a Plan Submittal Waiver has been issued by the Director ~~unless waivers have been issued as allowed by R309-500-6(3). This approval shall be referred to as the Plan Approval.~~~~

~~(d) ~~Furthermore, n~~No new public drinking water facility shall be put into operation until the Director has issued an Operating Permit or a Plan Submittal Waiver ~~written approval to do so has been given by the Director or this requirement waived. This approval is referred to as the Operating Permit.~~~~

(2) Minimum Quantity and Quality Requirements for Existing Facilities.

All existing public drinking water systems shall be capable of reliably delivering water ~~which that~~ meets ~~the minimum~~ current ~~standard of~~ drinking water minimum quantity and quality requirements. The Director may require modification of existing systems in accordance with R309-500 through R309-550 when such modifications are needed to reliably achieve minimum quantity and quality requirements.

~~*Guidance: Existing public drinking water facilities shall be upgraded to meet all current design and operation standards. Furthermore, R309-150, the Water System Rating Criteria, compels existing systems to correct deficiencies or risk a "Not Approved" rating. Thus, operators of existing systems are encouraged to continually evaluate their facilities with respect to current design and operation standards.*~~

(3) Operation and Maintenance of Existing Facilities.

Public drinking water system facilities shall be operated and maintained in a manner ~~which that~~ protects ~~the~~ public health. As a minimum, ~~the~~ operation and maintenance procedures ~~of~~ described in R309-500 through R309-550 shall be ~~adhered to~~met.

~~*Guidance: In accordance with R309-104-2, certain water systems; which consist only of distribution and storage facilities (no collection or treatment); obtains all of its water from another public water system which is required to monitor; does not sell water; and is not a carrier which conveys passengers in interstate commerce, may be exempted from monitoring requirements of R309-104. Such exemption does not extend to submittal of plans and specifications for any modifications considered a public drinking water project as outlined below. Additionally, if the system serves sufficient connections or individuals to be considered a "public water system", its management must keep current those names, addresses and phone numbers required by R309-101-1.2.*~~

R309-500-5. Public Drinking Water Project

(1) Definition.

A public drinking water project, requiring ~~the~~ submittal of a ~~p~~Project ~~n~~Notification ~~f~~Form ~~along with and~~ plans and specifications, is any of the following:

- (a) ~~The e~~Construction of any facility for a proposed drinking water system ~~(see 19-4-106(3) of the Utah Code or R309-500-4(1) above describing the authority of the Director).~~
- (b) Any addition to, or modification of, the facilities of an existing public drinking water system ~~which that~~ may affect the quality or quantity of water delivered.
- (c) Any activity, other than on-going operation and maintenance procedures, ~~which that~~ may affect the quality or quantity of water delivered by an existing public drinking water system. Such activities may include:
 - (i) the interior re-coating or re-lining of any raw or drinking water storage tank, or water storage chamber within any treatment facility,
 - (ii) the "in-situ" re-lining of any pipeline,
 - (iii) a change or addition of ~~any primary coagulant a~~ water treatment ~~process, chemical (excluding filter, flocculent or coagulant aids) when the proposed chemical does not appear on a list of chemicals pre-approved by the Director for a specific treatment facility, and~~

~~*Guidance: The Division of Drinking Water will maintain a list of primary coagulant treatment chemicals which are "pre-approved" for use at a given plant. Plant operators will be required to only use primary coagulant chemicals from this list. When a different primary coagulant*~~

chemical is desired for use, this chemical must be reviewed by the Director and may be added to the “pre-approved” list for a given plant.

(iv) the re-development of any spring or well source, ~~or~~ and

(v) replacement of a well pump with one of different capacity or deepening a well.

(2) On-going Operation and Maintenance Procedures.

On-going operation and maintenance procedures are not considered public drinking water projects and, accordingly, are not subject to the project notification, plan approval and operating permit requirements of this rule. However, these activities shall be carried out in accordance with all ~~operation and maintenance~~ requirements contained in R309-500 through R309-550 and specifically the design, construction, disinfection, flushing and bacteriological sampling and testing requirements of ANSI/AWWA C651-05 for pipelines, ANSI/AWWA C652-02 for storage facilities, and ANSI/AWWA C654-03 for wells before ~~they~~ the facilities are placed back into service. The following activities are considered to be on-going operation and maintenance procedures:

(a) pipeline leak repair,

(b) replacement of existing deteriorated pipeline where the new pipeline segment is the same size as the old pipeline or the new segment is upgraded to meet the minimum pipeline sizes required by R309-550-5(4) or larger sizes as determined by a hydraulic analysis in accordance with R309-550-5(3),

(c) tapping existing water mains with corporation stops so as to make connection to new service laterals to individual structures,

(d) distribution pipeline additions where the pipeline size is the same as the main supplying the addition or the pipeline addition meets the minimum pipeline sizes required by R309-550-5(4) or larger sizes as determined by a hydraulic analysis in accordance with R309-550-5(3), the length is less than 500 feet and contiguous segments of new pipe total less than 1000 feet in any fiscal year,

(e) entry into a drinking water storage facility for the purposes of inspection, cleaning and maintenance, and

(f) replacement of equipment or pipeline appurtenances with the same type, size and rated capacity (fire hydrants, valves, pressure regulators, meters, service laterals, chemical feeders and booster pumps including deep well pumps).

R309-500-6. Plan Approval Procedure.

Guidance:

~~Submittal of plans and specifications for drinking water projects are required of owners, operators, and managers of public water systems (pws).~~

~~Many times the Division receives a submittal directly from developers of subdivisions that will be served by a pws, or engineers who are on contract to the developer rather than the pws. We have no objections to a pws obligating a developer to provide the time, energy, and cost necessary to prepare a set of plans and specifications, but such shall be reviewed by the pws for conformance with their own specific requirements prior to submittal, and the submittal to the Division made by the management of the pws rather than others.~~

~~Also keep in mind that local agencies approve subdivision plats not the Division; that the plans and specifications submitted shall be final and complete enough for actual construction of the additions or modifications to the pws's existing facilities; that additional information, even beyond that outlined below, may be required by the Division prior to construction (e.g. hydraulic analysis of existing system plus additions, local requirements for fire flow and duration, proximity of sewer and other utilities); and that the plans and specifications must be stamped and signed by a registered professional engineer licensed to practice in the state of Utah.~~

(1) Project Notification.

The Division shall be notified prior to the construction of any "public drinking water project" as defined in R309-500-5(1) above. The notification may be prior to or simultaneous with submission of construction plans and specifications as required by R309-500-6(2) below. Notification shall be made ~~by the management of the regulated public water system~~ on a form provided by the Division. ~~Information required by this form shall be determined by the Division and may include:~~

- ~~(a) whether the project is for a new or existing public drinking water system;~~
- ~~(b) the professional engineer, registered in the State of Utah, designing the project and his/her experience designing public drinking water projects within the state;~~
- ~~(c) the individual(s) who will be inspecting the project during construction and whether such inspection will be full time or part time;~~
- ~~(d) whether required approvals or permits from other governmental agencies (e.g. local planning commissions, building inspectors, Utah Division of Water Rights) are awaiting approval by the Director, the agency's name and contact person;~~

~~(e) the fire marshal, fire district or other entity having legal authority to specify requirements for fire suppression in the project area;~~

~~(f) for community and non-transient non-community public water systems or any public water system treating surface water, the name of the certified operator who is, or will be, in direct responsible charge of the water system;~~

~~(g) whether the water system has a registered professional engineer employed, appointed or designated as being directly responsible for the entire system design and his or her name and whether the system is requesting waiving of plan submittal under conditions of R309-500-6(3);~~

~~(h) the anticipated construction schedule, and~~

~~(i) a description of the type of legal entity responsible for the water system (i.e. corporation, political subdivision, mutual ownership, individual ownership, etc.) and the status of the entity with respect to the rules of the Utah Public Service Commission.~~

~~*Guidance: The Utah Public Service Commission (PSC) regulates water utilities meeting the definition of a “water corporation” as found in 54-2-1 of the Utah Code. However, water utilities owned by political subdivisions are not subject to PSC regulation—see U.C. 54-2-1(29). Mutual water companies serving only their members may obtain a Letter of Exemption from PSC regulation. All public water systems shall refer to Title 54 of the Utah Code and R746-331 of the Utah Administrative Code and approach the PSC for a determination of whether the system qualifies for an exemption from PSC regulation.*~~

~~*Guidance: In addition to the Project Notification Form, new public water systems should submit a New Public Water System Supplemental Form to the Director.*~~

(2) Pre-Construction Requirements.

All of the following shall be accomplished before construction of any public drinking water project ~~beginseommenees~~:

(a) ~~Contract documents, p~~Plans and specifications for a public drinking water project shall be submitted to the Division at least 30 days prior to the date on which action is desired ~~unless the system is eligible for and has requested waiving of plan submittal.~~

~~*Guidance: Review of complicated projects, especially water treatment facilities, may require more than 30 days and should be submitted well in advance of the date on which action is desired.*~~

~~(b) Any s~~Submittals required may shall include engineering reports, ~~pipe network~~ hydraulic analyses of the existing system and additions, local requirements for fire flow and duration, proximity of sewers and other utilities, water consumption data, supporting information, evidence of rights-of-way and reference to any previously submitted master plans pertinent to the project, ~~along with~~ a description of a program for keeping existing water works facilities in operation during construction so as to minimize interruption of service, etc.

~~*Guidance: Review of complicated projects, especially water treatment facilities, may require more than 30 days and shall be submitted well in advance of the date on which action is desired.*~~

~~(bc)~~ Plans and specifications shall be prepared for every anticipated public water system project. The design utilized shall conform to the requirements of R309-500 through R309-550. ~~Furthermore, the p~~Plans and specifications submitted shall be complete and sufficiently detailed for actual construction to assure that the project shall be properly constructed. Drawings shall be compatible with Division's document storage and microfilming practice. In some cases, a profile drawing may be required to show potential water line conflicts and clearances.

~~*Guidance: It is recommended that an inspector familiar with these rules be retained to observe all construction.*~~

~~(d)~~ Drawings ~~which that~~ are illegible or of unusual size ~~shall will~~ not be accepted for review. ~~Drawing size shall not exceed 30" x 42" nor be less than 8 1/2" x 11".~~

~~(ee)~~ The plans and specifications shall be stamped and signed by a licensed professional engineer ~~in accordance with~~ required by Section 58-22-602(2) of the Utah Code.

~~*Guidance: 58-22-602(2) in part reads: "Any final plan, specification, and report prepared by, or under the supervision of, the professional engineer shall bear the seal of the professional engineer when submitted to a client, when filed with public authorities, ...". As authorized by 19-4-104(1)(b), the Drinking Water Board may "require the submission to the Director of plans and specifications for construction of, substantial addition to, or alteration of public water systems for review and approval by the board before that action begins and require any modifications or impose any conditions that may be necessary to carry out the purposes of this chapter."*~~

~~*Therefore the Drinking Water Board is considered as the State Authority having regulatory control over public water systems and any submittal tot he board, through the Director, on behalf of a client is considered a filing with public authorities and required to bear the stamp and signature of a professional engineer.*~~

~~Staff at the Division are repeatedly questioned concerning the need to have a licensed professional engineer stamp and sign sketches, drawings, or plans submitted for review, especially where simple waterline extensions or additions are concerned. 58-22-102(9) of the Utah Code in part defines “Professional engineering or the practice of engineering” as meaning any service or creative work, the adequate performance of which requires engineering education, training, and experience in the application of special knowledge of the mathematical, physical, and engineering sciences to such services or creative work as...planning, design, and design coordination of engineering works and systems...any of which embraces such services or work, either public or private, in connection with any utilities...and including such other professional services as may be necessary to the planning, progress and completion of any engineering services.~~

~~The Division, the Director, and the Board cannot waive requirements of other agencies; therefore small public water systems are encouraged to utilize a professional engineer to create a meaningful “master plan” and “standard system drawings”, have them reviewed and approved by the Director one time, then they may construct the system in phases by simply notifying the Division, citing the previously approved submittal, and requesting a waiver of our requirement for plans and specifications submittal for the current construction phase as allowed by R309-500-6(3)(a).~~

~~(df) Plans and specifications shall be reviewed for conformance with R309-500 through R309-550. No work shall commence on a public water system project until a plan approval has been issued by the Director unless conditions outlined in R309-500-6(3) are met and waiving of plan submittal has been requested. If construction or the ordering of substantial equipment has not commenced within one year, a renewal of the Plan Approval shall be obtained prior to proceeding with construction.~~

~~(e) If, in the judgment of the Director, alternate designs or specific solutions can protect the public health to the same or greater extent as achieved in R309-500 through R309-550, the Director may grant an exception thereto (see the third paragraph of R309-500-4(1)).~~

~~(f) Novel equipment or treatment techniques may be developed which are not specifically addressed by these rules. These may be accepted by the Director if it can be shown that:~~

~~(i) the technique will produce water meeting the requirements of R309-200 of these rules;~~

~~(ii) the Director has determined that it will protect public health to the same extent provided by comparable treatment processes outlined in these rules; and~~

(iii) the Director has determined the technique is as reliable as any comparable treatment process outlined in these rules.

(3) Waiving of Plan Submittal Requirement.

With identification of a professional engineer, as indicated below, on a project notification form the plan submittal requirement may be waived for certain projects. In these instances, in lieu of plans and specifications, a "certification of rule conformance" shall be submitted along with the additional information required for an operating permit (see R309-500-9), signed by the professional engineer identified to Director in (b) or, if the system has not employed, appointed, or designated such, the registered professional engineer who prepared the items in (a). Projects eligible for this waiving of plan submittal are:

(a) distribution system improvements (excluding pressure reducing valve stations and in-line booster pump stations) which conform to a "master plan" previously reviewed and approved by the Director and installed in accordance with the system's standard installation drawings, also previously reviewed and approved by the Director, or

(b) distribution system improvements consisting solely of pipelines and pipeline appurtenances (excluding pressure reducing valve stations and in-line booster pump stations);

(i) less than or equal to 4 inches in diameter in water systems (without fire hydrants) serving solely a residential population less than 3,300;

(ii) less than or equal to 8 inches in diameter in water systems (with fire hydrants) providing water for mixed use (commercial, industrial, agricultural and/or residential) to a population less than 3,300;

(iii) less than or equal to 12 inches in diameter in water systems (with fire hydrants) providing water for mixed use to a population between 3,300 and 50,000;

(iv) less than or equal to 16 inches in diameter in water systems (with fire hydrants) providing water for mixed use to a population greater than 50,000.

Additionally, the above systems in (b) shall employ, appoint or designate a registered professional engineer who is directly responsible for the entire public water system design and identify this individual to the Director as well as have standard installation drawings previously reviewed and approved by the Division before being eligible for waiving of plan submittal requirements.

(3) Eligibility for Plan Submittal Waivers.

In lieu of submitting plans and specifications for Plan Approval and obtaining Operating Permits, public water systems may request Plan Submittal Waivers for two types of water line projects (excluding booster pump stations) after first becoming eligible to request the waivers. The Director will issue written notification that a public water system is eligible to request the Plan Submittal Waivers described in R309-500-6(3)(a) and (3)(b) if the information provided is acceptable.

(a) Water Line Projects Included in an Approved Master Plan. To become eligible to request this type of waiver, a public water system must submit standard installation drawings, which meet the requirements in R309-550, and a master plan, which is supported by a hydraulic analysis, to the Director for approval.

(b) Water Line Projects Included in (i) through (iii) below. To become eligible to request this type of waiver, a public water system must submit standard installation drawings, which meet the requirements in R309-550, and identify in writing the professional engineer or engineers responsible for the oversight of the hydraulic analysis for and the design of the entire water system to the Director for approval.

(i) Water lines less than or equal to 8 inches in diameter in water systems providing water to a population less than 3,300;

(ii) Water lines less than or equal to 12 inches in diameter in water systems providing water to a population between 3,300 and 50,000; or

(iii) Water lines less than or equal to 16 inches in diameter in water systems providing water to a population greater than 50,000.

(4) Using Plan Submittal Waivers.

After becoming eligible to request Plan Submittal Waivers per R309-500-6(3), a public water system must complete the following when requesting a Plan Submittal Waiver for a water line project:

(a) Submit a complete Project Notification Form describing the project and specifying which Plan Submittal Waiver, R309-500-6(3)(a) or R309-500-6(3)(b), is being requested;

(b) For projects that will have a hydraulic impact, submit a certification of hydraulic analysis by a professional engineer per R309-511-6(1) indicating that the design will not result in unacceptable pressure and flow conditions (including fire flow if fire hydrants are installed);

(c) Submit a certification by a professional engineer, who is responsible for the design and construction of the project or has been designated by the water system in writing as the professional engineer directly responsible for the design of the

entire water system, indicating that design and construction will meet the requirements of R309-500 through 550, that proper flushing and disinfection will be completed according to the appropriate ANSI/AWWA standard, that satisfactory bacteriological sample results will be obtained prior to placing the facilities into service, and that the water system will receive a copy of as-built or record drawings;

(d) Obtain a written Plan Submittal Waiver, in lieu of Plan Approval, from the Director prior to the start of construction; and

(e) Comply with the conditions in R309-500-6(4)(c) prior to placing the new facilities into service.

Guidance: A template for Certification of Hydraulic Analysis & Plan Submittal Waiver Conditions is available from the Division for use by the water system or its agent.

R309-500-7. Inspection ~~D~~during Construction.

Staff from the Division, ~~or the Department of Environmental Quality, or the appropriate~~ local health department, after reasonable notice and presentation of credentials, may make visits to the work site to assure compliance with these rules.

~~Guidance: It is recommended that a full-time inspector(s), familiar with these rules, be retained to observe all construction activities. This is particularly important for buried facilities such as pipelines.~~

R309-500-8. Change Orders.

Any deviations from approved plans or specifications affecting capacity, hydraulic conditions, operating units, the functioning of water treatment processes, or the quality of water to be delivered, shall be reported to the Director. ~~If deemed appropriate, t~~The Director may require that revised plans and specifications be submitted for review. ~~If required, R~~revised plans or specifications shall be submitted to the Division in time to permit the review and approval of such plans or specifications before any construction work, which will be affected by such changes, is begun.

R309-500-9. ~~Issuance of~~ Operating Permit.

The Division shall be informed when a public drinking water project, or a well-defined phase thereof, is at or near completion. The new or modified facility shall not be placed into service until an "Operating Permit" or a Plan Submittal Waiver is issued, ~~in writing,~~ by the Director. ~~This~~ The Operating permit ~~shall will~~ not be issued until all of the following items are submitted and found to be acceptable for all projects, ~~with the exception of d~~distribution lines (not including in-line booster pump stations ~~or pressure reducing stations~~), ~~which~~ may be placed into service prior to

submittal of all items if the professional engineer responsible for the entire system, as identified to the Director, has received items (1) and (4):

(1) ~~Certification of Rule Conformance~~ ~~statement from a registered by a~~ professional engineer that all conditions of Plan Approval were accomplished and if applicable, changes made during construction were in conformance with rules R309-500 through 550 ("certification of rule conformance"),

(2) as-built or "record" drawings incorporating all changes to approved plans and specifications; unless no changes are made from previously submitted and approved plans during construction,

(3) confirmation that a copy of the as-built or "record" drawings has been received by the water system owner,

(4) evidence of proper flushing and disinfection in accordance with the appropriate ANSI/AWWA Standard,

(5) where appropriate, water quality data,

Guidance: ~~When the interior of drinking water storage tanks are painted or otherwise recoated with a material which contains a volatile organic that may be leached into the drinking water we recommend that, to verify the proper curing of the coating, water samples be taken and analyzed for said particular volatile organic constituent of the coating prior to re-introducing any water from the tank into the drinking water system~~ Water quality data for finished and raw water samples will be required as evidence of effective performance of new or modified water treatment plants prior to issuing an Operating Permit.

~~(6) a statement from the Engineer indicating what changes to the project were necessary during construction, and certification that all of these changes were in conformance with these rules ("certification of rule conformance");~~

~~(7) all other documentation which may have been required during the plan review process, and~~

~~(8) confirmation that the water system owner has been provided with an Operation and Maintenance manual for the new facility if applicable.~~

R309-500-10. Adequacy of Waste and Wastewater Disposal.

~~Approval of P~~plans and specifications may require evidence showing that for new water systems, or facilities required as a result of proposed subdivision additions to existing water systems, shall only be approved if the method(s) of waste and wastewater disposal ~~in the affected area~~ have been

approved ~~or accepted, or been determined to be feasible,~~ by the Utah Division of Water Quality, ~~or the appropriate local health agency, or the local authority for:-~~

(1) new drinking water facilities, including discharges from treatment facilities, discharges related to construction, etc., and

(2) new drinking water facilities serving proposed developments.

~~R309-500-11. Financial Viability.~~

~~Owners of new or existing water systems are encouraged to develop realistic financial strategies for recouping the costs of constructing and operating their systems. Plans for water system facilities shall not be approved when it is obvious that public health will eventually be threatened because the anticipated usage of the system will not generate sufficient funds to insure proper operation and maintenance of the system (see also R309-352-5).~~

~~**Guidance: To permit an evaluation in this regard, capital and operating cost estimates shall be provided along with the engineering plans and specifications for any proposed project.**~~

~~R309-500-1211. Fee Schedule.~~

The Division may charge a fee ~~for related to~~ the review of plans and specifications. A fee schedule is available from the Division.

~~**Guidance: If the project involves well grout witness of a new well by Division staff, a Well Grout Sealing Inspection fee of \$90.00 per hour (plus mileage and “per diem” food and lodging expenses) is charged to the driller by the Division. Beginning in State Fiscal Year 2016, the DEO budget may include a line item for assessing a penalty for beginning construction without Plan Approval or placing unapproved facilities into service.**~~

~~R309-500-1312. Other Permits.~~

~~Local, county or other state permits may also be necessary before beginning construction of any drinking water project. Local, county, federal, and other state authorities may impose different, more stringent, or additional requirements for public drinking water projects. Water systems may be required to comply with other permitting requirements before beginning construction of drinking water projects or placing new facilities into service.~~

~~R309-500-14. Reference Documents.~~

All references made in R309-500 through R309-550 are available for inspection at the Division's office.

~~R309-500-15. Violations of These Rules.~~

Violations of rule contained in R309-500 through R309-550 are subject to the provisions of the Utah Safe Drinking Water Act (Title 19, Chapter 4 Section 109 of the Utah Code) and may be subject to fines and penalties.

Guidance: Safety

The requirements of the Utah Occupational Safety and Health Administration (UOSHA) shall be met during the construction or operation of public drinking water facilities. However these rules are not enforced by the Division and, furthermore, Division inspections do not include safety-related items.

KEY: drinking water, plan review, operation and maintenance requirements, permits

Date of Enactment or Last Substantive Amendment: August 28, 2013

Notice of Continuation: March 22, 2010

Authorizing, and Implemented or Interpreted Law: 19-4-104

Agenda Item

9



State of Utah

GARY R. HERBERT
Governor

GREG BELL
Lieutenant Governor

Department of
Environmental Quality

Amanda Smith
Executive Director

DIVISION OF DRINKING WATER
Kenneth H. Bousfield, P.E.
Director

RECEIVED

APR 03 2013

Drinking Water

MEMORANDUM

TO: Executive Director's Office

FROM: Kate Johnson, Manager, Administrative Services

DATE: February 20, 2013

SUBJECT: Rural Water Association Assistance Contract

AMOUNT: \$628,444 (five years)

The Rural Water Association of Utah (RWAU) Assistance Contract allows RWAU to provide technical assistance to rural drinking water systems in resolving operation problems and in complying with the Drinking Water program rules. Funding comes from the hardship grant portion of the loan administration fee set-aside, as approved by the Drinking Water Board.

Handwritten notes or markings in the top left corner, possibly including a date or page number.

Department Log Number

State Contract #	136287
Assigned by the Division of Finance	

STATE OF UTAH CONTRACT COVER SHEET

This contract is entered into as a result of:

The procurement process on bid # AR13095

The procurement process on requisition #

Pre-approved sole source (approval attached)

Agency grant, land purchases, DAS-Purchasing delegation

Contract with other state agency or political subdivision

Under \$2,000 (total amount per fiscal year)

Agency exemption from DAS-purchasing approval

Revenue agreement

1. Agency Name UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY
Agency Code 480

2. General Purpose of Contract:
To provide education and training to county officials and other local authorities on proper development of drinking water systems.

3. Contractor Name Rural Water Association of Utah

4. Contract Period: Effective date 2/20/2013 Termination date 2/19/2018
(mm/dd/yy) (mm/dd/yy)

5. Authorized Amount: \$628,444

6. Vendor # 24410C

7. Commodity Code(s) 91843

COMMENTS:

**UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY
CONTRACT SUMMARY PAGE - FOR DEPARTMENT USE ONLY - NOT PART OF CONTRACT**

<u>Department Log Number</u>	COMPENSATION TYPE: F <input checked="" type="checkbox"/> Fixed Price C <input type="checkbox"/> Cost Reimbursement S <input type="checkbox"/> Fee for Service O <input type="checkbox"/> Other	LEGAL STATUS OF CONTRACTOR: LG <input type="checkbox"/> State or Local Government CU <input type="checkbox"/> College or University NP <input checked="" type="checkbox"/> Non-Profit Corporation CC <input type="checkbox"/> For-Profit Corporation OT <input type="checkbox"/> Other
DEPARTMENT OF ENVIRONMENTAL QUALITY INFORMATION: Div/Off: <u>Drinking Water</u> Bureau:	Name Of Contract: <u>Rural Water Association Capacity Development Contract</u> Name of Contractor: <u>Rural Water Association of Utah</u> Address: <u>76 East Red Pine Drive</u> <u>Alpine, Utah 84004</u> Tax ID <u>94-2716320</u>	

**APPROVAL AND REVIEW SIGNATURES
UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY**

APPROVAL AND REVIEW OF CONTRACT:

Division Support Service Coordinator/Director	Date
Financial Manager	Date

APPROVAL OF FUNDS AVAILABILITY:

Accountants, Office of Finance	Date
--------------------------------	------

CONTRACT PROVISIONS:

- 1. Vendor Contract - Contractor provides goods or services.
 - Standard Terms and Conditions used as Attachment A in Contract.
 - General Provisions used as Attachment A in Contract.
- 2. Subrecipient Contract - Contractor carries out grant program.
 - Standard Terms and Conditions used as Attachment A in Contract.
 - Contractor Assurances (attach copy to the back of Contract Summary Page).
 - General Provisions incorporated by reference, not attached (referenced on page 1 section 7 of contract).

Source of Funds:

Contract Allocation Sheet												Source Total Amount	
State/Federal		CFDA #	Fnd	Agy	Unit	Appr Unit	Obj	Progr	Amount	Progr	Amount		
Source	%												
State	100		5215	480	3088	5215	7512		\$628,444			\$628,444	
Totals													\$628,444

CONTRACT SUMMARY PAGE - FOR DEPARTMENT USE ONLY - NOT PART OF CONTRACT



Contract # 136287

STATE OF UTAH CONTRACT

1. CONTRACTING PARTIES: This contract is between the following agency of the State of Utah:
Department Name: Environmental Quality Agency Code: 480 Division Name: Division of Drinking Water, referred to as (STATE),
and the following CONTRACTOR:

<u>Rural Water Association of Utah</u>	Name		
<u>76 Red Pine Drive</u>	Address		
<u>Alpine</u>	<u>UT</u>	<u>84004</u>	
City	State	Zip	

LEGAL STATUS OF CONTRACTOR

Sole Proprietor

Non-Profit Corporation

For-Profit Corporation

Partnership

Government Agency

Contact Person Vern Steel Phone #801-756-5123 Email vsteel@rwau.net
Vendor #24410C Commodity Code #00000 91843

- GENERAL PURPOSE OF CONTRACT: The general purpose of this contract is to provide:
Furnish all labor, materials and equipment to provide education, training, and assistance to county officials and other local authorities on the proper development and sustainability of public drinking water systems.
- PROCUREMENT: This contract is entered into as a result of the procurement process on RX# 480 33000000002, FY13, Bid# AR13095 or a pre-approved sole source authorization (from the Division of Purchasing) # SS_____.
- CONTRACT PERIOD: Effective Date: February 20, 2013 Termination Date: February 19, 2018 unless terminated early or extended in accordance with the terms and conditions of this contract. Renewal options (if any): None. All payments under this contract will be completed within 90 days after the Termination Date.
- CONTRACT COSTS: CONTRACTOR will be paid a maximum of \$628,444 for costs authorized by this contract. Additional information regarding costs: Attachment C.
- ATTACHMENT A: Division of Purchasing's Standard Terms and Conditions
ATTACHMENT B: Scope of Work
ATTACHMENT C: Contract Costs
ATTACHMENT D: N/A
Any conflicts between Attachment A and other Attachments will be resolved in favor of Attachment A.
- DOCUMENTS INCORPORATED INTO THIS CONTRACT BY REFERENCE BUT NOT ATTACHED:
 - All other governmental laws, regulations, or actions applicable to the goods and/or services authorized by this contract.
 - Utah State Procurement Code, Procurement Rules, and CONTRACTOR'S response to Bid # AR13095 dated 1/29/2013.

IN WITNESS WHEREOF, the parties sign and cause this contract to be executed.

<u>[Signature]</u>	<u>2-25-13</u>	<u>[Signature]</u>	<u>3/14/2013</u>
Contractor's signature	Date	Agency's signature	Date

<u>Dale F. Pierson, Executive Director</u>	<u>[Signature]</u>	<u>4/1/13</u>
Type or Print Name and Title	Director, Division of Purchasing	Date

CONTRACT PROCESSED BY
DIVISION OF FINANCE
Director, Division of Finance

APR 02 2013

<u>Michael Grange</u>	<u>801-536-0069</u>	<u>mgrange@utah.gov</u>
Agency Contact Person	Telephone Number	Email

(Revision 3/17/09)

ATTACHMENT A: STATE OF UTAH STANDARD TERMS AND CONDITIONS

1. **AUTHORITY:** Provisions of this contract are pursuant to the authority set forth in 63G-6, Utah Code Annotated, 1953, as amended, Utah State Procurement Rules (Utah Administrative Code Section R33), and related statutes which permit the State to purchase certain specified services, and other approved purchases for the State.
2. **CONTRACT JURISDICTION, CHOICE OF LAW, AND VENUE:** The provisions of this contract shall be governed by the laws of the State of Utah. The parties will submit to the jurisdiction of the courts of the State of Utah for any dispute arising out of this Contract or the breach thereof. Venue shall be in Salt Lake City, in the Third Judicial District Court for Salt Lake County.
3. **LAWS AND REGULATIONS:** The Contractor and any and all supplies, services, equipment, and construction furnished under this contract will comply fully with all applicable Federal and State laws and regulations, including applicable licensure and certification requirements.
4. **RECORDS ADMINISTRATION:** The Contractor shall maintain, or supervise the maintenance of all records necessary to properly account for the payments made to the Contractor for costs authorized by this contract. These records shall be retained by the Contractor for at least four years after the contract terminates, or until all audits initiated within the four years, have been completed, whichever is later. The Contractor agrees to allow State and Federal auditors, and State Agency Staff, access to all the records to this contract, for audit and inspection, and monitoring of services. Such access will be during normal business hours, or by appointment.
5. **CERTIFY REGISTRATION AND USE OF EMPLOYMENT "STATUS VERIFICATION SYSTEM":** The Status Verification System, also referred to as "E-verify", only applies to contracts issued through a Request for Proposal process, and to sole sources that are included within a Request for Proposal. It does not apply to Invitation for Bids or to the Multi-Step Process.

5.1 Status Verification System

1. Each offeror and each person signing on behalf of any offeror certifies as to its own entity, under penalty of perjury, that the named Contractor has registered and is participating in the Status Verification System to verify the work eligibility status of the contractor's new employees that are employed in the State of Utah in accordance with applicable immigration laws including UCA Section 63G-12-302.
2. The Contractor shall require that the following provision be placed in each subcontract at every tier: "The subcontractor shall certify to the main (prime or general) contractor by affidavit that the subcontractor has verified through the Status Verification System the employment status of each new employee of the respective subcontractor, all in accordance with applicable immigration laws including UCA Section 63G-12-302 and to comply with all applicable employee status verification laws. Such affidavit must be provided prior to the notice to proceed for the subcontractor to perform the work."
3. The State will not consider a proposal for award, nor will it make any award where there has not been compliance with this Section.
4. Manually or electronically signing the Proposal is deemed the Contractor's certification of compliance with all provisions of this employment status verification certification required by all applicable status verification laws including UCA Section 63G-12-302.

5.2 Indemnity Clause for Status Verification System

1. Contractor (includes, but is not limited to any Contractor, Design Professional, Designer or Consultant) shall protect, indemnify and hold harmless, the State and its officers, employees, agents, representatives and anyone that the State may be liable for, against any claim, damages or liability arising out of or resulting from violations of the above Status Verification System Section whether violated by employees, agents, or contractors of the following: (a) Contractor; (b) Subcontractor at any tier; and/or (c) any entity or person for whom the Contractor or Subcontractor may be liable.
2. Notwithstanding Section 1, above, Design Professionals or Designers under direct contract with the State shall only be required to indemnify the State for a liability claim that arises out of the design professional's services, unless the liability claim arises from the Design Professional's negligent act, wrongful act, error or omission, or other liability imposed by law except that the design professional shall be required to indemnify the State in regard to subcontractors or subconsultants at any tier that are under the direct or indirect control or responsibility of the Design Professional, and includes all independent contractors, agents, employees or anyone else for whom the Design Professional may be liable at any tier.
6. **CONFLICT OF INTEREST:** Contractor represents that none of its officers or employees are officers or employees of the State of Utah, unless disclosure has been made in accordance with 67-16-8, Utah Code Annotated, 1953, as amended.
7. **CONTRACTOR, AN INDEPENDENT CONTRACTOR:** The Contractor shall be an independent contractor, and as such, shall have no authorization, express or implied, to bind the State to any agreements, settlements, liability, or understanding whatsoever, and agrees not to perform any acts as agent for the State, except as herein expressly set forth. Compensation stated herein shall be the total amount payable to the Contractor by the State. The Contractor shall be responsible for the payment of all income tax and social security amounts due as a result of payments received from the State for these contract services. Persons employed by the State and acting under the direction of the State shall not be deemed to be employees or agents of the Contractor.
8. **INDEMNITY CLAUSE:** The Contractor agrees to indemnify, save harmless, and release the State of Utah, and all its officers, agents, volunteers, and employees from and against any and all loss, damages, injury, liability, suits, and proceedings arising out of the performance of this contract which are caused in whole or in part by the acts or negligence of the Contractor's officers, agents, volunteers, or employees, but not for claims arising from the State's sole negligence. The parties agree that if there are any Limitations of the Contractor's Liability, including a limitation of liability for anyone for whom the Contractor is responsible, such Limitations of Liability will not apply to injuries to persons, including death, or to damages to property.
9. **EMPLOYMENT PRACTICES CLAUSE:** The Contractor agrees to abide by the provisions of Title VI and VII of the Civil Rights Act of 1964 (42USC 2000e) which prohibits discrimination against any employee or applicant for employment or any applicant or recipient of services, on the basis of race, religion, color, or national origin; and further agrees to abide by Executive Order No. 11246, as amended, which prohibits discrimination on the basis of sex; 45 CFR 90 which prohibits discrimination on the basis of age; and Section 504 of the Rehabilitation Act of 1973, or the Americans with Disabilities Act of 1990 which prohibits discrimination on the basis of disabilities. Also, the Contractor agrees to abide by Utah's Executive Order, dated March 17, 1993, which prohibits sexual harassment in the work place.
10. **SEPARABILITY CLAUSE:** A declaration by any court, or any other binding legal source, that any provision of this contract is illegal and void shall not affect the legality and enforceability of any other provision of this contract, unless the provisions are mutually dependent.

11. **RENEGOTIATION OR MODIFICATIONS:** This contract may be amended, modified, or supplemented only by written amendment to the contract, executed by authorized persons of the parties hereto, and attached to the original signed copy of the contract. Automatic renewals will not apply to this contract.
12. **DEBARMENT:** The Contractor certifies that neither it nor its principals are presently or have ever been debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction (contract), by any governmental department or agency. If the Contractor cannot certify this statement, attach a written explanation for review by the State. The Contractor must notify the State Director of Purchasing within 30 days if debarred by any governmental entity during the Contract period.
13. **TERMINATION:** Unless otherwise stated in the Special Terms and Conditions, this contract may be terminated, with cause by either party, in advance of the specified termination date, upon written notice being given by the other party. The party in violation will be given ten (10) working days after notification to correct and cease the violations, after which the contract may be terminated for cause. This contract may be terminated without cause, in advance of the specified expiration date, by either party, upon sixty (60) days prior written notice being given the other party. On termination of this contract, all accounts and payments will be processed according to the financial arrangements set forth herein for approved services rendered to date of termination.
14. **NONAPPROPRIATION OF FUNDS:** The Contractor acknowledges that the State cannot contract for the payment of funds not yet appropriated by the Utah State Legislature. If funding to the State is reduced due to an order by the Legislature or the Governor, or is required by State law, or if federal funding (when applicable) is not provided, the State may terminate this contract or proportionately reduce the services and purchase obligations and the amount due from the State upon 30 days written notice. In the case that funds are not appropriated or are reduced, the State will reimburse Contractor for products delivered or services performed through the date of cancellation or reduction, and the State will not be liable for any future commitments, penalties, or liquidated damages.
15. **SALES TAX EXEMPTION:** The State of Utah's sales and use tax exemption number is 11736850-010-STC, located at <http://purchasing.utah.gov/contract/documents/salestaxexemptionformsigned.pdf>. The tangible personal property or services being purchased are being paid from State funds and used in the exercise of that entity's essential functions. If the items being purchased are construction materials, they will be converted into real property by employees of this government entity, unless otherwise stated in the contract.
16. **WARRANTY:** The Contractor agrees to warrant and assume responsibility for all products (including hardware, firmware, and/or software products) that it licenses, contracts, or sells to the State of Utah under this contract for a period of one year, unless otherwise specified and mutually agreed upon elsewhere in this contract. The Contractor (seller) acknowledges that all warranties granted to the buyer by the Uniform Commercial Code of the State of Utah apply to this contract. Product liability disclaimers and/or warranty disclaimers from the seller are not applicable to this contract unless otherwise specified and mutually agreed upon elsewhere in this contract. In general, the Contractor warrants that: (1) the product will do what the salesperson said it would do, (2) the product will live up to all specific claims that the manufacturer makes in their advertisements, (3) the product will be suitable for the ordinary purposes for which such product is used, (4) the product will be suitable for any special purposes that the State has relied on the Contractor's skill or judgment to consider when it advised the State about the product, (5) the product has been properly designed and manufactured, and (6) the product is free of significant defects or unusual problems about which the State has not been warned. Remedies available to the State include the following: The Contractor will repair or replace (at no charge to the State) the product whose nonconformance is discovered and made known to the Contractor in writing. If the repaired and/or replaced product proves to be inadequate, or fails of its essential purpose, the Contractor will refund the full amount of any payments that have been made. Nothing in this warranty will be construed to limit any rights or remedies the State of Utah may otherwise have under this contract.
17. **PUBLIC INFORMATION:** Contractor agrees that the contract, related Sales Orders, and Invoices will be public documents, and may be available for distribution. Contractor gives the State express permission to make copies of the contract, related Sales Orders, and Invoices in accordance with the State of Utah Government Records Access and Management Act (GRAMA). Except for sections identified in writing and expressly approved by the State Division of Purchasing, Contractor also agrees that the Contractor's response to the solicitation will be a public document, and copies may be given to the public under GRAMA laws. The permission to make copies as noted will take precedence over any statements of confidentiality, proprietary information, copyright information, or similar notation.
18. **DELIVERY:** Unless otherwise specified in this contract, all deliveries will be F.O.B. destination with all transportation and handling charges paid by the Contractor. Responsibility and liability for loss or damage will remain with Contractor until final inspection and acceptance when responsibility will pass to the State except as to latent defects, fraud and Contractor's warranty obligations.
19. **ORDERING AND INVOICING:** All orders will be shipped promptly in accordance with the delivery schedule. The Contractor will promptly submit invoices (within 30 days of shipment or delivery of services) to the State. The State contract number and/or the agency purchase order number shall be listed on all invoices, freight tickets, and correspondence relating to the contract order. The prices paid by the State will be those prices listed in the contract. The State has the right to adjust or return any invoice reflecting incorrect pricing.
20. **PROMPT PAYMENT DISCOUNT:** Offeror may quote a prompt payment discount based upon early payment; however, discounts offered for less than 30 days will not be considered in making the award. Contractor shall list Payment Discount Terms on invoices. The prompt payment discount will apply to payments made with purchasing cards and checks. The date from which discount time is calculated will be the date a correct invoice is received or receipt of shipment, whichever is later; except that if testing is performed, the date will be the date of acceptance of the merchandise.
21. **PAYMENT:** Payments are normally made within 30 days following the date the order is delivered or the date a correct invoice is received, whichever is later. After 60 days from the date a correct invoice is received by the appropriate State official, the Contractor may assess interest on overdue, undisputed account charges up to a maximum of the interest rate paid by the IRS on taxpayer refund claims, plus two percent, computed similarly as the requirements of Utah Code Annotated Section 15-6-3. The IRS rate is adjusted quarterly, and is applied on a per annual basis, on the invoice amount that is overdue. All payments to the Contractor will be remitted by mail, electronic funds transfer, or the State of Utah's Purchasing Card (major credit card).

22. **PATENTS, COPYRIGHTS, ETC.:** The Contractor will release, indemnify and hold the State, its officers, agents and employees harmless from liability of any kind or nature, including the Contractor's use of any copyrighted or un-copyrighted composition, secret process, patented or un-patented invention, article or appliance furnished or used in the performance of this contract.
23. **ASSIGNMENT/SUBCONTRACT:** Contractor will not assign, sell, transfer, subcontract or sublet rights, or delegate responsibilities under this contract, in whole or in part, without the prior written approval of the State.
24. **DEFAULT AND REMEDIES:** Any of the following events will constitute cause for the State to declare Contractor in default of the contract:
 1. Nonperformance of contractual requirements;
 2. A material breach of any term or condition of this contract. The State will issue a written notice of default providing a ten (10) day period in which Contractor will have an opportunity to cure. Time allowed for cure will not diminish or eliminate Contractor's liability for damages. If the default remains, after Contractor has been provided the opportunity to cure, the State may do one or more of the following:
 1. Exercise any remedy provided by law;
 2. Terminate this contract and any related contracts or portions thereof;
 3. Impose liquidated damages, if liquidated damages are listed in the contract;
 4. Suspend Contractor from receiving future solicitations.
25. **FORCE MAJEURE:** Neither party to this contract will be held responsible for delay or default caused by fire, riot, acts of God and/or war which is beyond that party's reasonable control. The State may terminate this contract after determining such delay or default will reasonably prevent successful performance of the contract.
26. **PROCUREMENT ETHICS:** The Contractor understands that a person who is interested in any way in the sale of any supplies, services, construction, or insurance to the State of Utah is violating the law if the person gives or offers to give any compensation, gratuity, contribution, loan or reward, or any promise thereof to any person acting as a procurement officer on behalf of the State, or who in any official capacity participates in the procurement of such supplies, services, construction, or insurance, whether it is given for their own use or for the use or benefit of any other person or organization (63G-6-1002, Utah Code Annotated, 1953, as amended).
27. **CONFLICT OF TERMS:** Contractor Terms and Conditions that apply must be in writing and attached to the contract. No other Terms and Conditions will apply to this contract including terms listed or referenced on a Contractor's website, terms listed in a Contractor quotation/sales order, etc. In the event of any conflict in the contract terms and conditions, the order of precedence shall be:
 1. Attachment A: State of Utah Standard Terms and Conditions;
 2. State of Utah Contract Signature Page(s);
 3. State Additional Terms and Conditions;
 4. Contractor Terms and Conditions.
28. **ENTIRE AGREEMENT:** This Agreement, including all Attachments, and documents incorporated hereunder, and the related State Solicitation constitutes the entire agreement between the parties with respect to the subject matter, and supersedes any and all other prior and contemporaneous agreements and understandings between the parties, whether oral or written. The terms of this Agreement shall supersede any additional or conflicting terms or provisions that may be set forth or printed on the Contractor's work plans, cost estimate forms, receiving tickets, invoices, or any other related standard forms or documents of the Contractor that may subsequently be used to implement, record, or invoice services hereunder from time to time, even if such standard forms or documents have been signed or initialed by a representative of the State. The parties agree that the terms of this Agreement shall prevail in any dispute between the terms of this Agreement and the terms printed on any such standard forms or documents, and such standard forms or documents shall not be considered written amendments of this Agreement.

(Revision date: 12 July 2011)

Attachment B

DETAILED SCOPE OF WORK

1. Coordinate with Utah Division of Drinking Water (DDW) staff to prioritize counties needing assistance and, as mutually agreed upon, attend meetings of and present Capacity Development Ordinance needs to County Commissions/Councils. Invite and encourage DDW staff attendance at these meetings.
 - a. Meetings/trainings will be conducted with at least 12 counties per year of the contract. Specific counties to be visited will be determined during meetings held between DDW and the Awardee. Additional counties or additional meetings with counties previously trained may be necessary and will be determined by the Division and mutually agreed to by the Parties.
2. Work with DDW staff and DEQ District Engineers to modify and improve model County Ordinance for Drinking Water System Capacity Development for new development/water systems as necessary.
3. Work with DDW staff and DEQ District Engineers to modify and improve model Minimum Construction Standards for Counties based on DDW Construction Standards as necessary.
4. Facilitate general meetings with County Officials in conjunction with DDW Staff and Board as necessary.
5. Present Capacity Development and Drinking Water Authority needs to County Planning Commissions or Planners.
6. Present Capacity Development and Drinking Water Authority needs to County/Local Health Departments.
7. In meetings with local planners and building permit officials, demonstrate the secure web site that displays source protection areas, explain minimum recommendations for source protection ordinances and/or provide copies of the Department's model source protection ordinance, provide education on proper management practices for development in source protection areas and encourage support for local source protection efforts as necessary.
8. Advise local planners and building permit officials of the authority of the Utah Division of Public Utilities over proposed developments and the need to submit plans to the Division of Public Utilities for review and approval prior to new development platting.
9. Work with local entities to provide education to any or all parties that might be involved in expanding drinking water system service areas or developing/creating new drinking water systems (drinking water systems, developers, general public, etc.)

10. Coordinate interaction and issue resolution between Counties and local water systems of all types as circumstances require.
11. Attend additional training as required and approved by the Director of DDW
12. Provide Capacity Development assistance to drinking water systems as needed. It is anticipated that such assistance will be made available to water systems in areas already scheduled for other training meetings or during transit between those areas and offeror's base of operations.
13. Perform other work as authorized, requested or required by the Director of DDW.
14. Respond to water system emergencies as directed by the Director of DDW.
15. Meet at least quarterly with Drinking Water program representatives to identify and discuss entities in need of assistance and progress with entities previously identified.
16. Attend Drinking Water Board meetings at least quarterly to give the Board updates and answer questions.
17. Provide monthly reports to DDW showing which entities were visited during the month, the nature of the contact, and progress made with these entities.
18. Report expenditures for reimbursement to DDW on a monthly basis, including travel expenses that meet all state policies for reimbursable rates for hotels, meals and incidentals.
19. Work efforts and application for reimbursement will reference the contract stipulation within this Scope of Work that applies to the work performed. Reporting will be on an hour-by-hour basis. This information will be included in monthly billings in order to document that the effort is applicable to contract.
20. Comply with all applicable state and federal requirements concerning cost principals, audit requirements, and grant administration requirements. If the selected contractor is a non-profit organization, the contractor will be subject to the following requirements:
 - a. For Cost Principles, OMB Circular A-122
 - b. For Federal Audit requirements, OMB Circular A-133
 - c. For State Audit Requirements, State Legal Compliance Audit Guide (SLCAG)
 - d. For Grant Administration Requirements, OMB Circular A-110

As of October 12, 2010, documentation for these requirements can be found at:

OMB Circulars: <http://www.whitehouse.gov/omb/circulars/>

OMB Common Rule: <http://www.whitehouse.gov/omb/grants/attach.html>
CFRs: <http://www.gpoaccess.gov/cfr/index.html>
SLCAG: <http://www.sao.utah.gov/lqResources.html>

21. All work under this contract shall be performed in a skillful and professional manner. The State may require, in writing, that the offeror remove from the work any employee deemed by the State to be incompetent, careless, or otherwise objectionable.
22. With the exception of meeting attendance at Division offices, the State will not provide any equipment or facilities, nor access to State-owned equipment or facilities, to complete any work associated with this contract.

ATTACHMENT C

Rural Water Association Development Contract Contract costs February 20, 2013 to February 19, 2018

As detailed in the Request for Proposal (RFP) for this contract, hourly rates for individuals billing to this contract are set at \$47.11. Per the terms of the RFP, only one individual is billable under this contract at any given time. Any travel costs associated with this contract are to meet the cost requirements set for state travel, which are detailed in state policies as shown below and updated from time-to-time. Based on the stipulations in the awarded RFP, as described above, the total cost of personnel time applied to this contract in any one year is not to exceed \$97,988.80. Travel costs are expected to be \$27,700, and must be documented and billed according to the state reimbursement rates described in the policies shown below. Total contract costs per year will not exceed \$125,688.80. Contract costs over five years will not exceed \$628,444.

State travel policies to be referenced when requesting reimbursement for travel expenses:
FIACCT 10-02.03, FIACCT 10-02.04 and FIACCT 10-02.05

Agenda Item

12(B)

Energy Summit Partners:



Register to Attend:

Fax forms to 801-756-5123 OR register at www.rwau.net

Name(s): _____

Name(s): _____

Organization: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____

Email: _____

Registration Options:

- \$100 Before January 5th (Lunch Included)
- \$125 After January 5th (Lunch Included)

Amount Due: _____

- Credit Card
- Check
- Invoice Me

Name On Card _____

Credit Card Number _____

Billing Zip _____ Security Code _____

Expiration Date _____

Email for Receipt (If Different Than Above) _____

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Call 801-756-5123 for information.

RURAL WATER ASSOCIATION OF UTAH
76 RED PINE DRIVE
ALPINE, UT 84004



The Rural Water Association of Utah & the
Governor's Office of Energy Development
present the First Annual



WATER & Energy Nexus Summit

January 22, 2015

Summit Location:

Utah Local Governments Trust
55 South Highway 89
North Salt Lake, Utah

WATER & Energy NEXUS SUMMIT

Thursday, January 22, 2015 • 9:00 am—4:30 pm • North Salt Lake

Rural Water: 801-756-5123 • Office of Energy Development: 801-538-8732



Agenda:

9:00—12:00 Morning Sessions:

Welcome and Summit Overview

Dale Pierson & Paul Fulgham, Rural Water

Federal Water Perspective



Senator Mike Lee was elected in 2010 and is the ranking member on the Subcommittee on Water and Power. He has a keen interest in water issues and especially the federal nexus as it relates to water usage.

Senator Mike Lee (Invited)

Western Governors' Association (WGA)



Come learn about the Western Governors' Drought Forum, a year-long initiative to identify and share best practices and policies for drought management.

Through the Drought Forum, WGA has closely examined the impact of drought

on energy production. Information from forum workshops will be used to identify ways to avoid or mitigate the impact of drought on communities, economies, and the environment. **Jim Ogsbury, Executive Director, Western Governors' Association**

Western Governors' Association

State and Federal Regulations



Senator Margaret Dayton, Senate Chair of the Water Development Commission, will address conflicts between state and federal water regulations.

Senator Margaret Dayton

Utah Office of Energy Development (OED)

Dr. Nelson will discuss the importance of energy development for the state and the role of water in sustaining Utah's energy future, including best practices, water conservation and efficiency.

Dr. Laura Nelson, Office of Energy Development

Division of Water Resources

The Utah Division of Water Resources will outline what a successful conservation plan would look like for your systems, as well as give us an idea on Utah's water outlook in years past and the years to come.

Eric Millis, Utah Div. of Water Resources

Division of Water Rights

Potential negative repercussions where your water right is concerned has often been cited as a reason to avoid conservation. Come hear from the horse's mouth how conservation affects forfeiture. Is it really use or lose? We'll find out.

Kent Jones, Division of Water Rights

11:40 Keynote Luncheon:



Lunch will include a keynote address by Alan Matheson, Gov. Herbert's Environmental Advisor, on the water perspective in the state. Following Mr. Matheson's address a panel of Utah's State Legislators will deliver a preview on legislation affecting you.

Keynote Address: Alan Matheson

Legislative Panel: Sen. Jenkins, Sen. VanTassel, Rep. Ivory & Rep. Snow

1:30—4:30 Afternoon Sessions:

Saving Energy & Money on Your System

This nuts and bolts discussion will outline concrete ideas and process changes you can make on your system today to save you thousands on daily and monthly energy costs and more.

Doug Evans, Mountain Regional

Wastewater Resource Recovery

As Utah population doubles in the next forty years, our water resources will face supply and quality challenges. One possible "new" supply is the non-potable reuse of treated wastewater effluent. This talk will focus on the potential for reuse in Utah.

Walt Baker, Division of Water Quality

A Case Study in Efficiency

Let's take a look at how one system in Utah has completely revamped the way they run things to create an efficient system that saves them water, energy and (most of all!) money.

Paul Lindhardt, PE, Logan City

The Division of Drinking Water Plan

We will wrap up the day with a discussion led by the Division of Drinking Water outlining their plan and ideas on how systems across the state can save water and money, and what perks may be involved if you do.

Ken Bousfield, Div. of Drinking Water

SUMMIT LOCATION

Utah Local Governments Trust

55 South Highway 89 | North Salt Lake, Utah

SUMMIT HOSTED BY

Rural Water
Association of
Utah



UTAH OFFICE OF
ENERGY DEVELOPMENT
Advancing Utah's Energy Future

Agenda Item

12(C)



Rural Water Association of Utah

2015

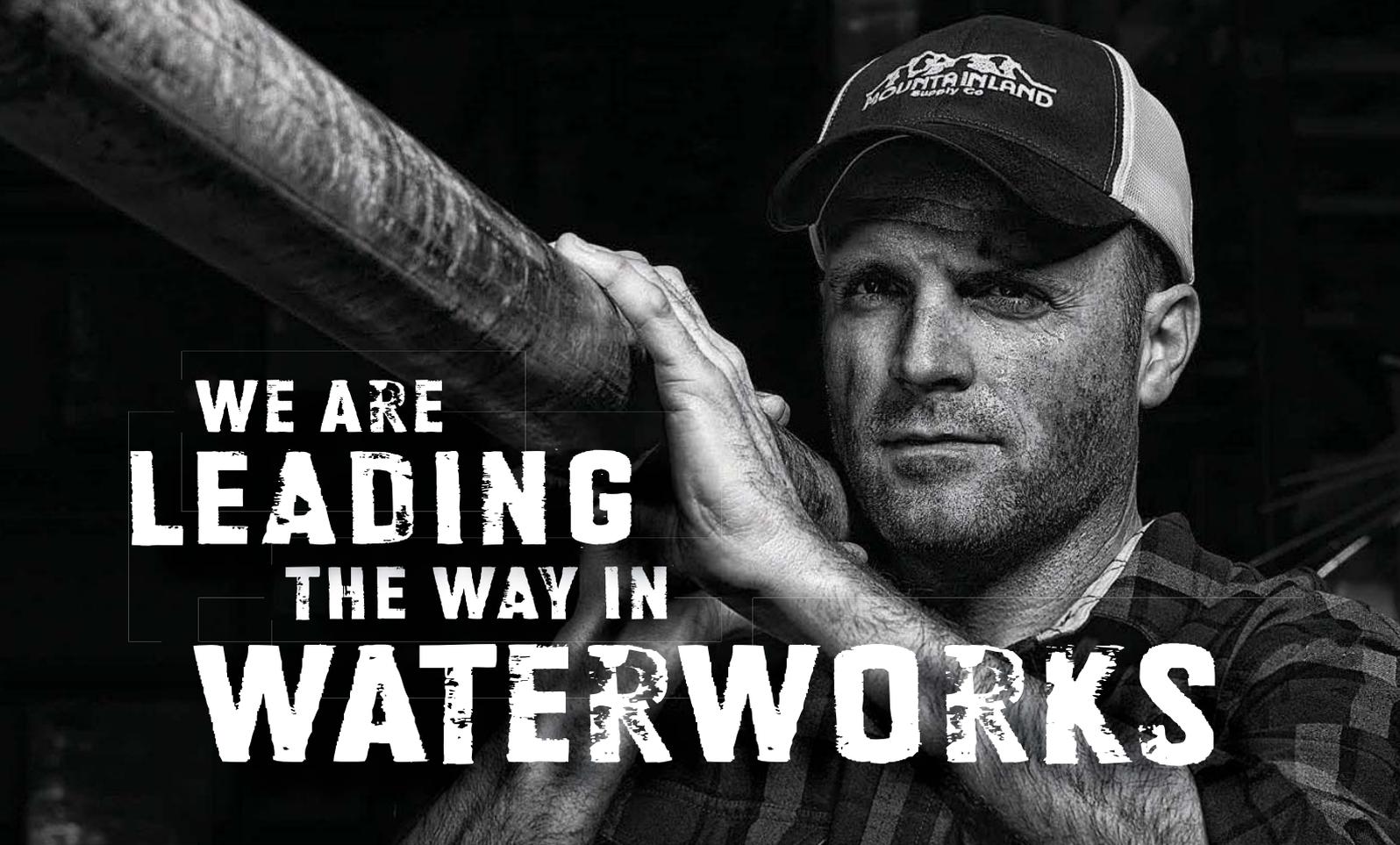
RWAU Annual Conference

FEBRUARY 23-27, 2015



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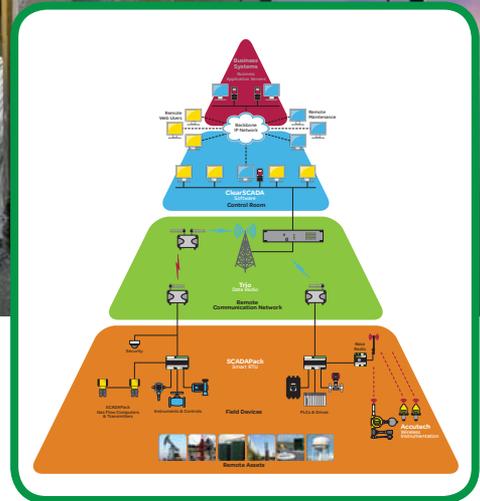
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2015 RWAU Annual Conference

FEBRUARY 23 - 27 | ST. GEORGE, UTAH



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Welcome to the 2015 Annual Conference!



We would like to extend a hearty invite and a warm welcome to everyone involved in the water and wastewater industry: come on out to the 2015 Rural Water Association of Utah Annual Conference! As the growing demands in our industry increase (often while the resources to meet these demands decrease) we have an increasingly difficult job on our hands. The public will always need and expect water to flow from their taps and used water to flow away from their drains and it is up to us to make that happen. How can we meet these demands? By being efficient with the resources we've got.

This year's conference will take a look at what we can do every day to maximize the resources we have and make us even better at what we do. There is only so much time, money, water, energy, and infrastructure to go around—let's make the most of it! From our full-day training on well maintenance to taking an in-depth look at how saving water and energy on your system can help your bottom line, if you want to maximize

your resources, then come join us! The 2015 Conference offers excellent training for CEUs, great networking opportunities, CCR completion, an opportunity to visit with the Division of Drinking Water, and (new this year) the Division of Water Rights for help with your Water Use Data Report. Plus this is a once-yearly chance to see the latest and greatest wares brought in by the best companies in our industry. We encourage the participation of everyone in the industry: from water and wastewater operators, to managers, elected officials and office personnel. Every role is important to make us as efficient and effective as possible. It takes all of us!

Use the form at the back of this booklet or our **ONLINE REGISTRATION SYSTEM** available on our website at www.rwau.net to register to attend. And while you are registering, be sure to take advantage of the awesome networking events we have this year. These include the golf scramble, the skeet shoot, the partner's program, and especially the

Awards Banquet on Wednesday. This highlight of the Conference is where we recognize you and your peers for doing outstanding work in the industry and going above and beyond for your customers. After the awards, and back by popular demand, we will get to hear from the **Bar J Wranglers** this year!

Another must-not-miss is the Voting Membership Meeting on Thursday at 10:30 in the Garden Room—your presence is a must! Come get the scoop on what's been happening in YOUR ASSOCIATION! And don't forget: EVERY SYSTEM needs to bring a sample of your water for the Best Water in Utah contest. You owe it to yourself to bring your water and give the contest a chance—you never know what could happen!

We look forward to seeing you in St. George for a week full of good food, good friends, and good learnin'! We'll see you there!

Sincerely,
Paul Fulgham
RWAU Board President



This Conference is brought to you in partnership with the Dixie Applied Technology College.



Conference Schedule At-a-Glance

Monday, February 23

12:00 pm	Operator Certification Registration Opens
1:00-5:00 pm	Water & Wastewater Operator Certification CLASSES BEGIN

Tuesday, February 24

7:00 am-6:00 pm	Exhibitor Set-up
7:30 am	Registration Opens
7:30-8:30 am	Donut / Juice / Coffee (North Lobby)
8:30-10:00 am	In-Depth Training / Water & Wastewater Operator Certification
9:00-4:00 pm	Golf Scramble (Sunbrook Golf Course)
10:15-11:45 am	In-Depth Training / Water & Wastewater Operator Certification
11:45-1:00 pm	Lunch (North Lobby)
1:00-2:30 pm	In-Depth Training / Water & Wastewater Operator Certification
2:45-4:15 pm	In-Depth Training / Water & Wastewater Operator Certification

Wednesday, February 25

7:30-5:00 pm	Registration
7:30 am	Exhibit Hall OPENS
7:30-9:00 am	Donut/ Juice/ Coffee (Exhibit Hall)
9:00-10:00 am	Training / Water & WW Op. Cert.
10:30-11:30 am	Training / Water & WW Op. Cert.
11:30-1:00 pm	Lunch / Exhibit Hall
1:00-2:00 pm	General Session (Garden Room)
2:00-2:15 pm	Break
2:15-4:15 pm	Training
7:00-9:00 pm	Awards Banquet (Ballrooms)

Thursday, February 26

7:30-3:45 pm	Registration
7:30 am	Exhibit Hall OPENS
7:30-9:00 am	Donut / Juice / Coffee (Exhibit Hall)
9:00-10:00 am	Training / Water & Wastewater Op. Cert Classes
10:30-12:00 pm	Voting Membership Meeting / Water Taste Finals
11:30-1:00 pm	Lunch / Exhibits (Exhibit Hall)
1:00 pm	Exhibit Hall CLOSED / Exhibit Take-down
1:00-2:00 pm	Training / Water & Wastewater Op. Cert Classes
2:00-5:00 pm	Drinking Water Board Meeting (Garden Room)
2:15-3:45 pm	Training / Water & Wastewater Op. Cert Classes
2:15-3:45 pm	Partner's Craft
3:00 pm	Skeet Shoot

Friday, February 27

7:30-8:30 am	Registration / Donuts / Juice / Coffee (North Lobby)
--------------	---

8:45-12:00 pm	Water & Wastewater Operator Certification Exam
8:30-9:30 am	Training Sessions
9:45-10:45 am	Training Sessions
11:00-12:00 pm	Training Sessions
12:00 pm	Evaluation Form & Dart Throw Prize Drawing Finale (Garden Room)
12:45 pm	Adjourn

CEU Count

In-Depth Training (Tuesday): 0.6
 Regular Conference (Wed/Thurs/Fri): 1.0
 Water Op. Cert. (Mon-Friday): 1.75
 WW Op. Cert. (Mon-Friday): 1.75
 Single Day(s): Varied (Each day will be
 calculated on the number of training
 hours offered that day.)

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Water Operator Certification

Monday, February 23 - Friday, February 27, 2015

To Participate:

First Register for the Certification Class

- Use the Conference Registration form or go online to www.rwau.net to register for the Water Operator Certification Class.
- The certification class is designed to train operators testing on all levels of certification for water treatment & distribution.
- Training sessions will run from Monday, February 23-Thursday, February 26.
- Classes will be held in the Sunbrook conference rooms.

PLEASE NOTE: The Operator Certification fee on the registration form pays for BOTH the certification class & the state exam fee but you still need to register separately for the exam!

Then Register for the Certification Exam

- The exam will be offered to all grade levels in DISTRIBUTION & TREATMENT
- Contact Shantell at the RWAU office to register to take the exam (801-756-5123 or sbantell.cummins@rwau.net)
- The exam registration DEADLINE is February 6, 2015 at 5:00 pm! (Please NOTE: The exam registration deadline is EARLIER than the deadline to register for the CLASS. The exam registration must be received NO LATER THAN 5:00 pm on Feb. 6th!)
- To take the exam, you MUST fill out a proof of citizenship form and have it NOTARIZED. This form must be submitted with your test application.
- The State will offer the exam during the Rural Water Conference on Friday, February 27, 8:45 am - Noon. The EXAM REGISTRATION DEADLINE is February 6th! If you plan on taking the Certification Exam at the conference, YOU MUST REGISTER FOR IT (separately from your conference registration) by contacting Shantell before FEBRUARY 6th!

Exam Details

The exam will be held:
Friday, February 27, 2015 | 8:45 am-12:00 noon

You will need

- Photo ID
- Notarized proof of citizenship form
- Two sharp #2 pencils
- A good eraser
- A nonprogrammable calculator
 - No programmable / text capable calculators or PDAs will be allowed
 - Solar-powered only calculators often do not work in the conference center lighting

There will be NO on-site registration for this test. Those not registered by the Feb. 6th deadline must wait for the next testing date to take the test or call RWAU (801-756-5123) to take the exam online at a later date.

Wastewater Operator Certification

Monday, February 23 - Friday, February 27, 2015

To Participate:

First Register for the Certification Class

- Use the Conference Registration form or go online to www.rwau.net to register for the Wastewater Operator Certification Class.
- The certification class will cover Lagoons and Levels I & II for Treatment & Collections.
- Training sessions will run from Monday, February 23-Thursday, February 26.
- Classes will be held in the Entrada rooms at the Conference.

PLEASE NOTE: The certification class fee covers the class costs ONLY and is payable to Rural Water. The class fee and the exam fee are SEPARATE fees. Pay the exam fee to the state. Pay the certification class fee to Rural Water.

Then Register for the Certification Exam

- Download an exam application from deq.utah.gov/certification/certification/wq/opcert/ and submit to DWQ with the fee. Questions? Contact Judy Etherington at (801) 536-4344. NO online registration or payments are available.
- The exam registration DEADLINE is January 30th at 5:00 pm! (Please NOTE: The exam registration deadline is EARLIER than the deadline to register for the CLASS. The exam registration & exam fee must be received by the Division of Water Quality NO LATER THAN 5:00 pm on Jan. 30!)
- A NOTARIZED proof of citizenship form must be on file with DWQ PRIOR to taking the exam.

The State will offer every level of the Wastewater Certification Exam during the Conference on Friday, February 27 from 8:45 am-Noon.

Exam Details

Exams will be offered to ALL GRADE LEVELS in COLLECTION, TREATMENT & LAGOONS.

The exam will be held Friday, FEBRUARY 27, 2015,
8:45 am-12:00 noon

You will need

- Photo ID
- Two sharp #2 pencils
- A good eraser
- Battery-operated, nonprogrammable calculator
 - No programmable / text capable calculators or PDAs will be allowed.
 - Solar-powered-only calculators often do not work in the conference center lighting.)

This testing opportunity is considered part of the regular spring testing session. You will not be allowed to take the same exam again in April.

Consumer Confidence Reports

Get your 2014 Consumer Confidence Report Completed Onsite!

For your convenience, Rural Water and the Division of Drinking Water will be available throughout the conference to help you complete your Consumer Confidence Reports for the 2014 calendar year. CCR appointments will be scheduled at the following times:

- Tuesday, February 24: 8:00 a.m. to 4:30 p.m.
- Wednesday, February 25: 9:00 a.m. to 4:30 p.m.
- Thursday, February 26: 8:00 a.m. to 4:30 p.m.
- Friday, February 27: 8:30 a.m. to 11:00 a.m.

Important: You must make an appointment in advance to complete your CCR at the Conference. Contact Maria or Shantell in the RWAU office (801-756-5123) *before February 15* to make an appointment. (If time permits, walk-ins may be accommodated, but those with appointments take precedence.)

What You Need To Bring:

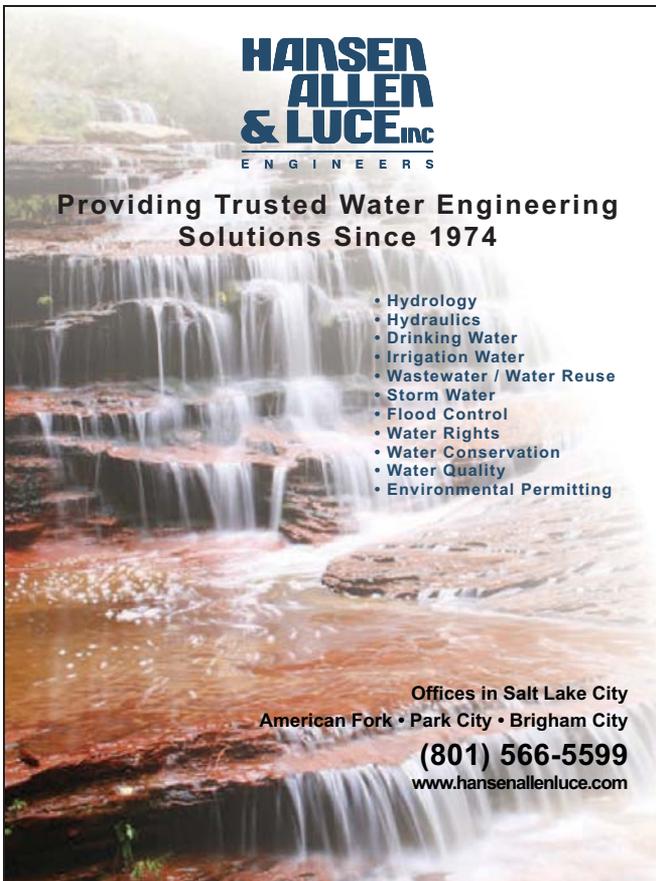
Last year's Consumer Confidence Report—on a USB flash drive if possible (Word & WordPerfect both supported—paper copy OK if necessary)

Your 2014 sampling records (the monitoring data needed for your CCR will be made available where possible by the Division of Drinking Water at the workshop.)

Please Note: If the Division of Drinking Water has not received all of your monitoring data for 2014, we will need to rely on your monitoring results to complete the report.

CCR Completion Location:

The Snow Canyon Room
(This is a Mezzanine Room overlooking the Exhibit Hall.)



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Division of Drinking Water Workshops

The Division of Drinking Water will be on hand in a few of the Conference Center Mezzanine Rooms to assist you however you need. See the assistance available and workshop times below. Who Should Schedule a Meeting? Any Public Water System with questions!

Workshop Times

Tuesday, February 24: 1:00 - 4:30 pm
Wednesday, February 25: 9:00 am - 4:30 pm
Thursday, February 26: 8:00 am - 4:30 pm

Bryce Mezzanine Room: System Report Updates

Division staff will be available in the Bryce Mezzanine Room to meet one-on-one with system staff for anything you may need. Possible topics for consultation include, but are not limited to, the following:

- Compliance Issues
- Stage 2 DBP Rule for all remaining systems who disinfect or receive disinfected water on Oct 1, 2013. Please consult with DDW staff if you have not submitted an IDSE report or Stage 2 sample site plan.
- IPS Report review and deficiency corrections
- Monitoring Schedule reviews and updates
- System Inventory reviews and updates
- Operator Certification issues
- Significant Deficiencies
- Corrective Action Plan assistance
- CEU updates, etc.

Zion Mezzanine Room: Updating Source Protection Plans & Division Consultation

The Division will be at the conference in the Zion Mezzanine room this year to help those systems whose updated plans are overdue to complete and submit their updates. There is some preparation before we can complete the updated plan, so contact Mark Jensen at 801-536-4199 or mjensen@utah.gov to get things started.

Source Protection Assistance

- Status of source protection updates
- PER status for new sources
- Source protection plans, etc.

The Division's engineering staff will be available in the Zion Mezzanine room to help those systems that have questions or need assistance. In some cases, we need to gather information in advance in order to assist the water systems.

For engineering consulting during the conference, please contact Heather Bobb at 801-536-0093 or hbobb@utah.gov before the conference. Or stop by the DDW booth to schedule a time with the engineering staff.

Engineering & Construction Assistance

- System infrastructure plan reviews & physical deficiencies
- Capacity reviews
- Funding assistance, etc.

Silver Reef Mezzanine Room: Cross Connection

The Division will be available in the Silver Reef Mezzanine room beginning Wednesday morning for a Cross Connection 101 classroom training from 9:00 am to noon. Then, Wednesday afternoon and Friday at noon in the same room, they will be hosting an open house Cross Connection Control workshop where you can schedule an appointment by meeting at the Backflow Table in the lower hall, then go up to work on all 5 components of your cross connection control program one-on-one with a Division of Drinking Water staff member. If you have an 'Authority Statement' or 'Ordinance' signed, please bring a copy to the meeting.

To Schedule a Meeting Call

Compliance Issues:
Ashley Farr 801-536-0070

Engineering & Construction:
Heather Bobb 801-536-0093

Source Protection:
Mark Jensen 801-536-4199

Cross Connection:
Mike Moss 801-536-0089

(Or visit the Division of Drinking Water booth during the Conference to schedule a time to meet With the DDW staff.)



Division of Water Rights Workshops

The Division of Water Rights will be on hand in the Pine Valley Mezzanine room to assist you in helping with filling out the annual water use data report.

Water Rights staff will be available to meet one-on-one with system staff to go over your individual systems to help provide instructions on how to fill

out the water use form accurately and discuss any other problems or questions you might have.

Workshop Times

Tuesday, February 24: 1:00 - 4:30 pm
Wednesday, February 25: 9:00 am - 4:30 pm
Thursday, February 26: 8:00 am - 4:30 pm

To Schedule a Meeting Call

Lazaro F. (Frank) Quintana
Water Use Program Manager
(801) 528-7223
frankquintana@utah.gov

Golf Scramble

Scramble Details

- 9:00 am Shotgun Start at the Sunbrook Golf Course
- 4-Person Scramble
- Entry fee is \$80 per golfer
- Entry Fee includes:
 - Continental Breakfast
 - Tee Time
 - Cart
 - Lunch
 - Giveaways

- Prizes
 - Winners awarded prizes immediately following tournament
 - Hole-in-One prize on every par 3, including a 4-wheeler hole!
- Email Vern Steel (steel@rwau.net) with team preferences or for sponsorship opportunities. If you are a single golfer, you will be placed on a team.



Driving Directions

From the Dixie Center to the Sunbrook Golf Club (2336 West Sunbrook Drive):

- Head north on Dixie Drive
- Keep right at the fork, follow signs for 18 N N/Bluff St.
- Turn left onto UT-18 N/ Hwy 18 N
- Turn left onto the Interstate 15 S ramp to Las Vegas
- Keep right at the fork to continue toward Dixie Dr.
- Keep right at the fork and merge onto Dixie Dr.
- Turn left onto W Sunbrook Dr.
- Destination will be on the right

Hole in One Prizes

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Partner's Program

Wednesday, Thursday, Friday

The Partner's Program provides activities for the wife/spouse/partner/significant other of attendees at the Annual Conference. Registration includes access to the Exhibit Hall and all the training sessions, coffee/juice/donut each morning, and lunch on Wednesday & Thursday. Plus... the Partner's Program features door prizes just for you!

Wednesday, February 25

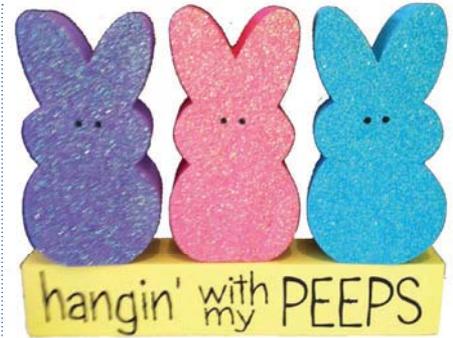
Motivational Speaker
2:15-4:15 pm, Garden Room
**I Love My Job,
It's the People I Can't Stand!**
Jody Urquhart, Motivational Speaker
Join us in this hilariously interactive, practical and inspiring motivational

speech that shows you how to develop healthy communication patterns with anyone. (See page 19 for full session description.)

Thursday, February 26

**Craft Workshop:
Hangin' with my Peeps!**
2:15-3:45 pm, Entrada A

If you love little bunnies and Easter, then this craft is for you. Sand, paint, glitter & tutti dot the eyes and you have a darling Easter decoration. (Oh, and don't forget to roll on the vinyl, "Hangin with my peeps"!) Come join us for a fun afternoon and bring home one of your own! Presented by Donna Birk, Manti, Utah



Door Prize Info

Drawings for all door prizes for the Partner's Program will be held during our Thursday craft session. You must be present to win!

Caricature Artist

Didn't have a chance to get your picture drawn last year?

You're in luck because we are bringing the caricature artist back again! Visit the Rural Water store (in the Hallway to the west of the Garden Room) on Wednesday or Thursday to get your free caricature picture drawn!

Rules:

This is a first-come, first served event
You must be there in person to have your picture drawn (the artist cannot draw caricatures from photographs etc.)

Hours:

Wednesday, Feb. 25: 8:00 am-4:00 pm
(our artist will break at lunch for one hour.)
Thursday, Feb. 26: 8:00 am-1:00 pm



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Awards Banquet

Wednesday, February 25 | 7:00 pm
Dixie Center Ballrooms

Don't miss your chance to attend the highlight of the Conference—the Awards Banquet! Enjoy a fabulous Dixie Center dinner, watch as your peers (or you!) are awarded for jobs well done in 2014, then enjoy the awesome entertainment provided by the ever-popular Bar J Wranglers!



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Some folks call it a western music show; some call it a stand-up comedy show with masterful cowboy music; others call it the best musical experience in the west. Call it what you want to, the fact remains: The Bar J Wranglers from Jackson Hole, Wyoming, deliver some of the purest harmony, best musicianship and funniest ranch humor ever seen on stage. As soon as the Bar J Wranglers take to the stage, listeners leave behind their busy life and settle into a time long ago—a time of the singing cowboy.



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Water Taste Test Contest

Wednesday

(Water Check-in and Preliminary Judging)

Thursday

(Taste Test Finals)

Rural Water is looking for the best water in the state!

To Compete

Bring one quart of cooled water in a glass canning jar to the Annual Conference Taste Test registration desk by 12:00 pm, Wednesday, February 25, 2015.

Final Judging

Final judging will occur during the Voting Membership Meeting on Thursday, February 26th. Samples will be judged based on Taste, Smell & Clarity

The winner of the Best Water in Utah will go on to compete at the National Taste Test in Washington DC!

Rules

- Samples must be in a glass canning jar
- Each applicant is responsible for keeping their water cooled until the Wednesday deposit
- Systems of all sizes are eligible to enter
- All entries must meet state standards

Final Judging will be held Thurs., February 26 at 10:30 am during the Voting Member Meeting



Skeet Shoot

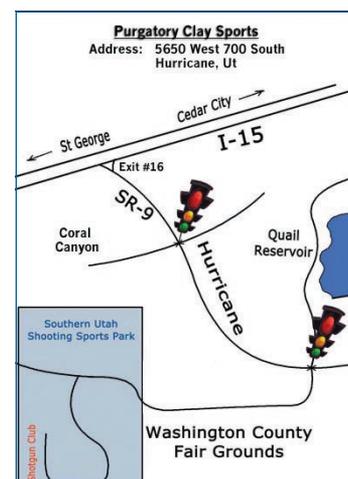
Purgatory Clay Sports

Southern Utah Shooting Sports Park Hurricane, Utah (Near fairgrounds in Hurricane—see map below.)

- Skeet Shoot will be held Thursday, February 26, 2015
- 3:00 pm: shooting starts-continues until dark
- \$30 per shooter for the first round, \$9 for each additional round
- You must bring your OWN Gun & Shells (Limited amounts of 12 & 20 gauge shoot guns are available for rent for \$10 onsite, first-come, first-served. Ammunition can also be purchased on site if needed.)
- Entry Fee includes Safety Glasses, Ear Protection & 50 Targets of either: Sporting Clays, 5-Stand, Trap or Skeet
- Shooting prizes will be awarded
- Sign up for the Skeet Shoot When You Register For The Conference
- You can register two shooters on the hard copy registration form—one Conference attendee and one “Skeet Shooter only” where applicable. Only one shooter can be registered at a time when using the online registration.
- Anyone attending the conference should register for the skeet shoot on his/her own registration form.
- Additional shooting rounds can be purchased on-site.

Driving Directions from St. George:

- Take I-15 North to Exit 16
- Go south on SR-9 to the 2nd set of stoplights
- Turn right (south) & follow the Southern Utah Shooting Sports Park signs



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Dart Throw & Birdie Ball for Prizes

Dart Throw: in the hallway behind the Garden Room, runs Tuesday - Friday

Birdie Ball: in the Exhibit Hall, runs Wednesday & Thursday

Prize Giveaway: Friday at Noon in the Garden Room

Don't miss out on the 2015 Research and Education Fund Dart Throw & Birdie Ball contest! We will have some GREAT prizes up for grabs this year—stop by the outskirts of the Garden Room to throw a Dart on Tuesday—Friday, or swing away at the birdie ball target in the Exhibit Hall on Wednesday & Thursday to earn drawing tickets! (All proceeds from the Dart Throw go toward the RWAU Research and Education Fund and are tax deductible.)

How to Play

Throw a Dart:

Visit the north hallway behind the Garden Room at the Conference Tuesday through Friday to check out the prizes and buy a dart to throw for tickets.

Chip the Ball:

Head in to the Exhibit Hall on Wednesday or Thursday and swing away at the birdie ball target to earn your tickets.

Win a Prize:

Put your ticket stubs in the prize buckets in the Garden Room hallway near the dart throw area and show up on Friday at noon to see if you won!

Prize Preview:

- 4 Wheeler
- Flat Screen TV
- GPS Unit
- Cabela's Gift Card

- Hunting Gear
 - Guns
 - Sporting Goods
 - Camping Gear
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Drawing held Friday at noon!

Sponsor Information

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Conference Sessions

Monday, February 23, 2015

12:00 Noon

Registration OPENS

1:00 - 5:00

Water & Wastewater Operator
Certification Classes Begin

Water Classes: Sunbrook Room

Wastewater Classes: Entrada Room

Tuesday, February 24, 2015

7:00 am – 6:00 pm

Exhibitor Set-up

7:30 am

Registration Opens

7:30 – 8:30 am

Donut / Juice / Coffee (North Lobby)

9:00 – 4:00 pm

Golf Scramble (Sunbrook Golf Course)

8:30 – 10:00 am Sessions

Museum Auditorium

Energy Efficiency and Saving Your \$\$\$

Are you getting the most electrical bang for your buck on your water system? Energy is often the largest part of our water costs, and savings realized from what you learn in this session could fund your deserved pay raise, or even save you some interest money on that loan you need. This informative full-day seminar will examine in detail many methods to save significantly on your energy bills from simple operation techniques to system tune-ups and major improvements. Learn how to run pumps at different times and on different rate schedules and find out about Rocky Mountain Power programs available to assist you in the expenses of upgrades. We will also learn about State Energy efficiency programs, and demonstrate ways to finance major system improvements, where the loan payback can be solely based on your energy savings. Water is power, so become more empowered!

Doug Evans, Mountain Regional & **Ken Bousfield**, Division of Drinking Water

Ballroom AB

Keep it Pumpin': Well Operations, Maintenance and Rehabilitation

Wells provide a challenge to most cities as often unknown and unseen problems go undetected until it is too late. And for us this means trouble—like a well that is out of commission in the middle of peak production times. Attend this full-day session to go over the proper design, construction operations, maintenance, and rehabilitation of wells to keep them running as they should. We will cover all aspects of a well to make sure it continues to reliably serve your system now and into the future.

Mark Chandler, CRS Engineers

Ballroom CD

New Year, New Ways

This session will take a look at the ever changing ways that we repair and replace important parts of our systems, as well as new products that will allow us to make these repairs safely and efficiently.

Doug Riseden, Krausz USA

Ballroom E

**Microbial Samples:
What, Where, How and Why**

This half-day in-depth session will teach you all you need to know about samples including why we take them, what the rule requirements are, an overview of potential future requirements and the dos and don'ts of boil orders.

Pete Keers, Division of Drinking Water

Ballroom F

Aged Infrastructure in Your Community

America's Infrastructure Report Card for 2013 gives D's for water, wastewater, and roads. The reason for such low marks? The aging of the infrastructure. How much of your infrastructure is beyond its service life? How long can you expect that pipeline/road/pump/plant/etc. to last? What are the risks and dangers of "status quo"? Come take a look at how the costs of ongoing repairs compare to replacement, and what you can do to plan for replacement, refurbishment, and/or maintenance, as well as what kind of funding may be available to help with any needed improvements.

Marv Wilson, Sunrise Engineering

Sunbrook C

**(NEW SESSION FOR COUNTIES!)
ATTENTION COUNTY OFFICIALS:**

Commissioners, Planners, Zoning Administrators, Planning Commissions, & Health Departments

The planning process for small drinking water and wastewater systems is CRITICAL. What is the difference in a public system and a nonpublic system? Why do you need to know? What is your role in the proper development of non-public systems? Why are ordinances, rules, proper design, etc. so important? Attend this special day of training and find out the answers to these and many other questions.

We will start the day with a session on the consequences of poor water or wastewater development by **Michael Grange** with the Division of Drinking Water and continue from there. (Look for the session descriptions in Sunbrook C for the rest of the day's agenda!)

10:15 – 11:45 am Sessions

Museum Auditorium

Energy Efficiency and Saving Your \$\$\$

This session is a continuation of the Energy Session described above and will last all day Tuesday.

Doug Evans, Mountain Regional & **Ken Bousfield**, Division of Drinking Water

Ballroom AB

Keep it Pumpin': Well Operations, Maintenance and Rehabilitation

This session is continued from the Wells session described above and will continue all day Tuesday.

Mark Chandler, CRS Engineers

Ballroom CD

**Resolving Manhole &
Vault Water Infiltration**

Come learn about a new way patented process for repair of water and wastewater systems that reduces downtime, eliminates excavation, and provides precision results within hours—not days or weeks. The technique we will discuss uses geopolymers to address rehabilitation and resolve problems without excavation, even in wet conditions. We will cover infiltration & ex-filtration control, back-seal techniques, tank and pipe sealing, underground pipe rehabilitation, manholes, vaults, culverts, and soil stabilization.

Scott Paswaters, Concrete Stabilization Technologies, Inc.

Tuesday Sessions

Ballroom E

Microbial Samples: What, Where, How and Why

This is the second half of the Sampling session as described in the 8:30 session.

Pete Keers, Division of Drinking Water

Ballroom F

Contractor & Professional Service Procurement

This session will address the difference between “Contractor Services” and “Professional Services” as identified by Utah State Code. The discussion will include the common methods of hiring a contractor: what are the risks of the “low bid” selection process for contractors and what can be done to lower the system’s exposure to those risks? We will also cover common methods of hiring a professional service providers and what process best controls the risk as well as what is required by Utah State Code, what is Qualifications Based Selection (QBS) and how to write an appropriate RFP.

Marv Wilson, Sunrise Engineering

Sunbrook C

(NEW SESSION FOR COUNTIES!)

10:15 – 11:00 am

Proper Construction Standards and Public Drinking Water System Requirements

Ying Ying Macauley, Division of
Drinking Water

11:00 – 11:45 am

The Non-Public Rule / Ordinance

John Chartier & Scott Hacking,
District Engineers

11:45 am – 1:00 pm

Lunch (North Lobby / Garden Room)

1:00 – 2:30 pm Sessions

Museum Auditorium

Energy Efficiency and Saving Your \$\$\$

This session is a continuation of the Energy Session described in the 8:30 session and will last all day Tuesday.

Doug Evans, Mountain Regional & **Ken Bousfield**, Division of Drinking Water

Ballroom AB

Keep it Pumpin’: Well Operations, Maintenance and Rehabilitation

This session is continued from the Wells session described in the 8:30 session and will continue all day Tuesday.

Mark Chandler, CRS Engineers

Ballroom CD

Review of Water Reuse Practices in the State of Nevada

Water reuse practices vary throughout the State of Nevada. These practices are highly affected by water related challenges in Northern and Southern Nevada. While water reuse in Northern Nevada relies heavily in agricultural practices, water reuse in Southern Nevada is focused on obtaining return credits to supplement the region’s potable water source allocation. This session presents a review of the water reuse practices in Nevada including regulatory framework, current practices in the Northern and Southern Nevada, and examples.

Chris Machado PhD. PE. &
Cory Dow EL., Carollo Engineers

Ballroom E

Understanding Chlorine

Join Thatcher Chemical for a discussion on important chlorine safety facts, Cl2 Repair Kits, the properties of chlorine, the practical handling of chlorine and the main health hazards associated with chlorine. We will wrap up the discussion by addressing frequently asked questions about chlorine.

Jeff Zidek, Thatcher Chemical

Ballroom F

Changing Impact Fee Laws in Utah from an Engineers Perspective

Utah’s impact fee laws continue to be rewritten. Recent amendments to the law add significant new requirements for LOS, applicability to Private Entities, appeals to the Ombudsman, definitions on development approval authority of local districts and private entities, changes to notice requirements, and better definitions for costs. We will tackle the legal and engineering issues associated with these new laws and regulations and how they affect your water utility.

Don Olsen, Epic Engineering & **David B. Hartvigsen**, Smith Hartvigsen, PLLC

Sunbrook C

(NEW SESSION FOR COUNTIES!)

1:00 – 1:45 pm

The Non-Public Rule / Ordinance (Cont.)

1:45 – 2:30 pm

Septic Tank Density and the Effects on Groundwater

John Kennington, Division of
Water Quality

2:45 – 4:15 pm Sessions

Museum Auditorium

Energy Efficiency and Saving Your \$\$\$

This session is a continuation of the Energy Session described in the 8:30 session and will last all day Tuesday.

Doug Evans, Mountain Regional & **Ken Bousfield**, Division of Drinking Water

Ballroom AB

Keep it Pumpin’: Well Operations, Maintenance and Rehabilitation

This session is continued from the Wells session described in the 8:30 session and will continue all day Tuesday.

Mark Chandler, CRS Engineers

Ballroom CD

Free Preparedness Tools for Drinking Water and Wastewater Utilities

The U.S. Environmental Protection Agency will share tools that drinking water and wastewater attendees can use to prevent, prepare, respond and recover from all hazards. These tools will include the newly updated Vulnerability Self-Assessment Tool, Flood Resilience Guide and more.

Karen Edwards, EPA

Ballroom E

What is Behind the Number?

What is behind the number when you receive results from your lab? Learn about how data is generated and all of the supporting QC measures that back-up the result on your report. Gain an understanding of the highly regulated environmental lab. Learn about some basic techniques for reviewing data and what goes into data validation. Understand some of the technologies that are used to produce the number on your final report. Understand why what happens in the field is critical to the final number.

Paul Ellingson, Chemtech-Ford
Laboratories

Tuesday & Wednesday Sessions

Ballroom F

New Purchasing Rules & Ethics for Professionals

Rumors have circulated regarding significant changes to purchasing rules and ethics requirements for professional services such as engineering and legal counsel. Can we take our clients to lunch? Does this apply to our District Engineer? Are we required to put out an RFP? Come participate in this discussion to help sort out the facts from the fiction.

Clint Dilley, Epic Engineering & **David B. Hartvigsen**, Smith Hartvigsen, PLLC

Sunbrook C

(NEW SESSION FOR COUNTIES!)

2:45 – 3:30 pm

Agency Introductions... Who, What, & Why!!!

Come hear from the Public Utilities Commission, Local Health Departments, a Utah District Engineer, the State Division of Drinking Water, and the State Division of Water Quality

Bill Duncan, Public Utilities Commission, **Michael Grange**, Division of Drinking Water & **Paul Wright**, District Engineer

3:30 – 4:15 pm

A Review of the Protocol of the Entire Development Process: Making All of the Pieces of the Planning Fit Together (Water, Sewer, Roads, Easements, etc.)

Paul Hansen, Drinking Water Board Chairman & Paul Hansen Associates Engineering

Wednesday, February 25, 2015

7:30 am – 5:00 pm

Registration

7:30 am

Exhibit Hall OPENS

7:30 – 9:00 am

Exhibit Hall

Donut/Juice/Coffee

9:00 – 10:00 am Sessions

Museum Auditorium

Extreme Weather Planning

This past year many areas of the State have experienced drought and in the past several years water systems have had to respond to record flooding. Come hear about emergency planning for weather events that may be rare but have happened in Utah, as well as the best practices in preparing for these extreme events.

Kim Dyches, Division of Drinking Water

Ballroom AB

Control Valves Technology

Come learn about the latest in control valve technology and materials available in today's market. Among other things, this includes less maintenance and more problem solutions.

Ben Deaver, Rocky Mountain Valve & Automation

Ballroom CD

What are the New Phosphorus Limits for Wastewater Treatment?

The State of Utah has recently proposed nutrient removal standards for phosphorus for wastewater treatment facilities discharging to waters of the State. Find out how the new nutrient removal limits will affect your treatment system, when you are required to meet them and potential upgrades to your facility to meet those requirements. A case study of the Perry/Willard Wastewater Treatment Facility will be given as an example.

Scott Archibald, Sunrise Engineering

Ballroom E

Introduction to Water Hammer

Water system operators, administrators, and engineers often know about water hammer, but do not always understand the principles that can cause damaging water hammer pressures. Come learn about the hydraulic modeling tools available

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Wednesday Sessions

to assist in predicting extreme negative and positive pressures. These tools are capable of identifying when surge protection devices such as surge anticipator valves, surge tanks, or bypass valves are and are not appropriate.

Andrew McKinnon, Bowen Collins & Associates

Ballroom F UV Regulations and Limits

We have seen an increase in interest in using UV to treat drinking water sources in Utah. Are you considering adding a new process to treat a drinking source that is surface water, or under the direct influence of surface water, or has difficulty in bacteriological samples? Come to learn about the basics, regulations, and limitations of using UV for drinking water treatment.

Ying-ying Macauley & Bob Hart, Division of Water Rights

10:30 – 11:30 am Sessions

Museum Auditorium Water Conservation for Providers and Users

Water conservation is a growing concern in the western United States. Come learn the when's and why's of water conservation, including a roadmap for identifying water conservation opportunities. We will present case studies on water conservation programs around the country and discuss topics including water leak detection, direct installation of water conservation devices, energy and water saving programs, and increasing water conservation awareness.

Jim Fitzpatrick, CLEAResult

Ballroom AB How to Evaluate Mixing Within Storage Tanks

Active mixing can reduce the rate of disinfectant loss, lower the rate of DBP formation and, when combined with active ventilation, remove THMs from finished water. But because the amount of mixing power required involves complex parameters, considerable confusion exists as to how to evaluate tank mixers to achieve complete tank mixing. We will demonstrate complete blending, time to complete blending, and other methods to provide an accurate way to evaluate tank mixing technologies.

Nathan Miller, PAX Water Technologies

Ballroom CD Sewer Cleaning and Inspections

Come learn about the importance of cleaning and inspecting your sewer systems and maintaining your sewer systems.

Sheldon Teeples, RS Technical Services

Ballroom E Spring Redevelopment: Out of Sight, Out of Mind

For years, Helper City's springs had been neglected due to the belief that spring water is free. When the threat of losing their water supply due to assessed points from the State's latest sanitary survey, and the real possibility of being required to purchase water, the City administration realized what their "free" water was worth and took quick action. This presentation will cover the steps the City took to secure their asset.

Chad Brown, Franson Civil Engineers,
Dave Ariotti, District Engineer &
Gary Harwood, Helper City

Ballroom F Affordable Care Act Overview

This overview on the Affordable Care Act will include such issues as premium subsidies and income tax credits, Federal Market Place procedures and an enrollment guideline. We will also cover an Avenue H overview including information on the SHOP Exchange, competing premium and tax subsidies and 74 plan options. The Metallic Plans overview will include information on Platinum to Bronze, age 26 dependents, pediatric coverage requirements and preventative care. We will cap off our time with an overview of some new concepts such as defined contribution vs defined benefit, employee empowerment and increased responsibility, high deductible health plans and health savings accounts as well as provider network savings.

Matthew Spencer, Utah Private Health Exchange

1:00 – 2:00 pm Garden Room GENERAL SESSION

Agenda:
Presentation of Colors &
National Anthem

Welcome Address
Paul Fulgham, RWAU President

National Rural Water Update
NRWA Representative

Keynote Address
Jody Urquhart, Motivational Speaker

Keynote Address:
**The Nerve to Serve: Say Hello to
Humor &
Goodbye to
Burnout!**



Humor helps. The ability to laugh at life helps us deal with daily disappointments and setbacks. Humor

gives water professionals the nerve to serve in an increasingly chaotic and challenging environment. Join us as we demonstrate how humor helps you stay in control, stay positive, and maintain balance and perspective.

2:15 – 4:15 pm Sessions

Garden Room I Love My Job, It's the People I Can't Stand!

Join us in this hilariously interactive, practical and inspiring motivational speech that shows you how to develop healthy communication patterns with anyone. You can learn to handle the most difficult situations and the most challenging people by understanding more about personality styles and how to get through to others without giving in. Never again fall victim to those who love to make life miserable for the rest of us! Knowing how to deal with difficult people at work will allow you to approach your job with more enjoyment and your coworkers with greater confidence.

Jody Urquhart, Motivational Speaker

Museum Auditorium
Funding Panel: Agencies & Options
Need to do a project but have no idea where to get the money? This session has your answers! Our specialized team of panelists from each of Utah's funding agencies will present the options they

Wednesday & Thursday Sessions

have available to you and what you need to do to qualify. You can ask them your questions and get them answered, as well as learn what you need to know for your funding needs.

Funding Panelists & Agencies:

Michael Grange; Div. of Drinking Water

Jonathon Cook; Div. of Water Quality

Val Anderson; Div. of Water Resources

Debra Meyer; USDA Rural Development

Candace Powers; Community

Impact Board

Jonathon Jones & Scott Blake;

Bureau of Reclamation

Alex Buxton; Zion Public Finance

David Hanson; NRCS

7:00 pm

Dixie Center Ballrooms

Awards Banquet

Don't miss your chance to attend the highlight of the Conference—the Awards Banquet! Enjoy a fabulous Dixie Center dinner, watch as your peers (or you!) are awarded for jobs well done in 2014, then enjoy the awesome entertainment provided by the ever-popular Bar J Wranglers!

Banquet Entertainment



Some folks call it a western music show; some call it a stand-up comedy show with masterful cowboy music; others call it the best musical experience in the west. Call it what you want to, the fact remains: The Bar J Wranglers from Jackson Hole, Wyoming, deliver some of the purest harmony, best musicianship and funniest ranch humor ever seen on stage. As soon as the Bar J Wranglers take to the stage, listeners leave behind their busy life and settle into a time long ago—a time of the singing cowboy.

Thursday, February 26, 2015

7:30 am – 5:00 pm

Registration

7:30 am

Exhibit Hall OPENS

7:30 – 9:00 am

Exhibit Hall

Donut/Juice/Coffee

9:00 – 10:00 am Sessions

Museum Auditorium

Conserve Water without

Using Imposed Restrictions

Water Conservation is a necessity in Utah but imposing restrictions is

extremely ineffective. This presentation will explain many different ways to encourage residential water conservation and eliminate the need to place restrictions on use. Subjects will include effective education, metering, stepped water billing and soil moisture sensors.

Randy Marble, Chanshare, Inc.

Ballroom AB

Applying Variable Frequency Controllers

Attend this session to learn the proper applications for Variable Frequency Controllers on a water system. The “Where’s, When, How’s and Why’s” of using Variable Speed Control.

Scott Gordon, E.C.T. Sales and Service, Inc.

Ballroom CD

Do you know where your pipes are?

It is extremely valuable knowing where your infrastructure is! Whether you were there when the underground pipe was installed or not, if you have data that was collected with highly accurate GPS equipment it will be easy to find later. (Ideally the data will be collected when the trench is still open, otherwise it can be used with a locator device.) Come learn the basics of how to collect data and navigate to previously collected data using a high accuracy handheld GPS unit.

Tom Wussow, Monsen Engineering

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Thursday Sessions

Ballroom E

Hydrant and Valve Training Session

Come learn the manufacturing, history, and maintenance of fire hydrants and RW valves.

Kirk Stoltzner, EJ USA, Inc.

Ballroom F

Websites, Compliance & Customer Service - A Winning Combination

Join the discussion led by Rural Water Impact as they demonstrate how an affordable, cutting edge website, can assist you in complying with CCR requirements, run your office more productively & efficiently, provide a powerful communication tool to serve your customers AND save money—adding to your bottom line! Rural Water Impact is the leading provider in website solutions specifically designed to meet the needs of the rural water industry. With combined experience of over 40 years in the web design & waterworks industries, they understand the challenges you face in the day to day operation of your water systems.

Shannon Farmer, Rural Water Impact

10:30 am – 12:00 pm

Garden Room

Voting Membership Meeting

For the Voting Members

It is vital that you attend this meeting if you are a representative, employee, or member of one of the Rural Water Voting Member systems. (If you are not from a voting member system, you are still welcome to attend, you just cannot vote.) Come see what is in store for the Association in 2015 & watch as a panel of judges selects Utah's best tasting water—it could be yours!

AGENDA:

- A. Call to Order
- B. Determination of a Quorum
- C. Secretary's Report
- D. Treasurer's Report
- E. Reports of Committees / Directors
- F. Unfinished Business
- G. New Business
 1. Election of Directors
 2. Water Taste Test Conducted
 3. Scholarship Winners

10:30 am – 12:00 pm

Museum Auditorium

Large System Training Session

For those not involved in the Voting Member Meeting

Managing Corrosion on Aging Water Pipelines

Corrosion on water pipelines can have a significant impact on operations, maintenance costs, the ability to provide reliable service, and public perception. Identifying infrastructure at greatest risk can allow water operators to develop and implement proactive methods for managing corrosion and prioritizing corrosion control. Developing a corrosion control program will be outlined in this session.

Eric Llewellyn, Infinity Corrosion Group, Inc.

1:00 – 2:00 pm Sessions

Museum Auditorium

Effects of Fire and Debris Flow on the Watershed

Lightning-caused fire burned 48 thousand acres in Huntington Canyon watershed. Subsequent debris flows impacted water management by all water users. This presentation briefly describes some actions taken to meet water users' needs and preserve public safety.

Kyle Ekker, Emery County Sheriff's Office

Ballroom AB

Water Sector Emergency Response Tools

This session will cover various natural and man-made hazards that water and wastewater systems are vulnerable to, and a web-based tour of the tools that are available thru UT-DDW, UT-WARN, UT-DEM, EPA, and FEMA. This will include the EPA Response Protocol Toolbox and Water Contaminant Info Tool, and the FEMA sponsored Incident Command System (ICS) trainings. A review of the local, state, and Federal Disaster declaration process.

Pete Keers, Division of Drinking Water

Ballroom CD

Limiting the Lagoon

The Submerged Attached Growth Reactor (SAGR) has proven to be an effective nitrification module. The SAGR process allows lagoons to meet tight effluent ammonia limits (<1 mg/l, even in extreme cold climates). Adding an Anoxic

Submerged Attached Growth Reactor for denitrification provides TN Removal. While phosphorus removal is an established process, ongoing development work continues to aid lagoon-based processes. Come learn about them!

Todd Latchaw, Nelson Environmental Inc.

Ballroom E

Leak Detection

This one hour presentation will explain the theory and practices of leak detection on distribution systems, and types of leaks both common and rare, as well as current trends in the marketplace regarding the procedures and equipment employed in leak detection.

Tom Ruppenthal, Utility Services Associates

Ballroom F

Records, Documentation and Retention

Record keeping is an integral part of running a water or wastewater system office. But what is required, and what is recommended? Come to this class to learn the what, when, where and how of record keeping. Find out what you should record, what is the best method for doing so, how long should you retain those records and so forth. What is actually required by law and what is just good solid business practices?

Angie Morris, Hawkins, Cloward & Simister

2:15 – 3:45 pm Sessions

Museum Auditorium

Water Rights

Have questions about your water right? Need to know how to navigate the system, or just want to stay up to date on the latest in water rights? What about this new Water Right Certification Program you have been hearing about? Sounds like you had better drop in and get the latest on today's hot issues, hear what has happened in our recent legislative session that could affect you, and find out what you need to know to protect your water for the future.

Kent Jones, Division of Water Rights

Ballroom AB

Automatic Control Valves

This session will discuss the theory and operation of pressure reducing, pressure relief, level and pump control valves.

Thursday & Friday Sessions

It will also provide valuable troubleshooting and maintenance tips on these types of automatic control valves. We will attempt to answer the most asked questions involving the mysteries of how these valves operate.

Mike Landers, HyDec

Ballroom CD

Bluffdale's Water Supply and Reuse System

Bluffdale has spent the past 5 years planning a water supply system to service the southern, undeveloped portion of the city, including a large single point water user. Come learn how the city was able to obtain an unusual funding source, install a water system (source, storage and delivery system) and develop a secondary reuse system that saved the city culinary water. We are all aware that water is a precious resource in Utah, and preparing for the future by innovatively planning your water system will serve your community well.

Brent Ventura, Horrocks Engineers

Ballroom E

RWAU's Website & Resources and DDWs Online CEU Options & Screen Casts

RWAU's isn't just great for onsite help or training—we have lots of digital resources available as well. Certifications, cross connection, source protection,

development, management, wastewater, CCRs and Legislative info are just a few things you can find on the web page. Use our website, Facebook or Twitter to keep up-to-date with the upcoming trainings, conferences, industry jobs and new rules and regulations. Additionally, the Division of Drinking Water has online training presentations on various topics from rules training to sanitary survey training. Once you view the online presentation you can take a short quiz to gain CEUs. Come to see our new online presentations and how you can earn CEUs from your laptop! Be prepared to offer your ideas on online training that would best benefit your water system.

Kris Hunter, RWAU & Rachael Cassidy, Division of Drinking Water

Ballroom F

Maximizing Your State Retirement Benefits

Your state pension plan is an incredibly rich retirement benefit. But will it be enough to support you throughout a potential retirement period of 20-30 years or more? Please come to this informative, educational workshop so you can understand how your pension works, and what you can be doing now beyond your pension to maximize your retirement benefits and retirement readiness!

Mike Wilson, Utah Retirement Systems

Entrada A

Partner's Program Craft

(See page 12 for details)

3:00 pm

Skeet Shoot (See page 14 for Details)

Friday, February 27, 2015

7:30 – 8:30 am

North Lobby

Registration / Donuts / Juice / Coffee

8:45 am – 12:00 pm

Water & Wastewater Operator Certification Exam

8:30 – 9:30 am Sessions

Museum Auditorium

Using GIS for Water Rights Maintenance

Researching and managing water rights has always been a tedious process requiring hours of research and expertise. Wouldn't it be nice to capitalize on such efforts and accurately map water rights and filter results that are of the utmost importance to your research within seconds? This presentation will illustrate some of the techniques and advantages of a cloud based GIS mapping system to do just that. Combining Water Analytics and Web GIS Mapping, water right stewards can visualize where their water right inventories are, prioritize what's most helpful, correct lingering problems that may be unknown, and formulate a plan to continually protect the water rights inventory for future municipal use.

Marv Wilson, Sunrise Engineering

Ballroom AB

Changes to the Public Water System Definition

The Division of Drinking Water is updating the definition of Public Water Systems (PWS) in Utah regulations. This session will discuss the rule amendment and how it will affect water systems and subdivisions served by water systems.

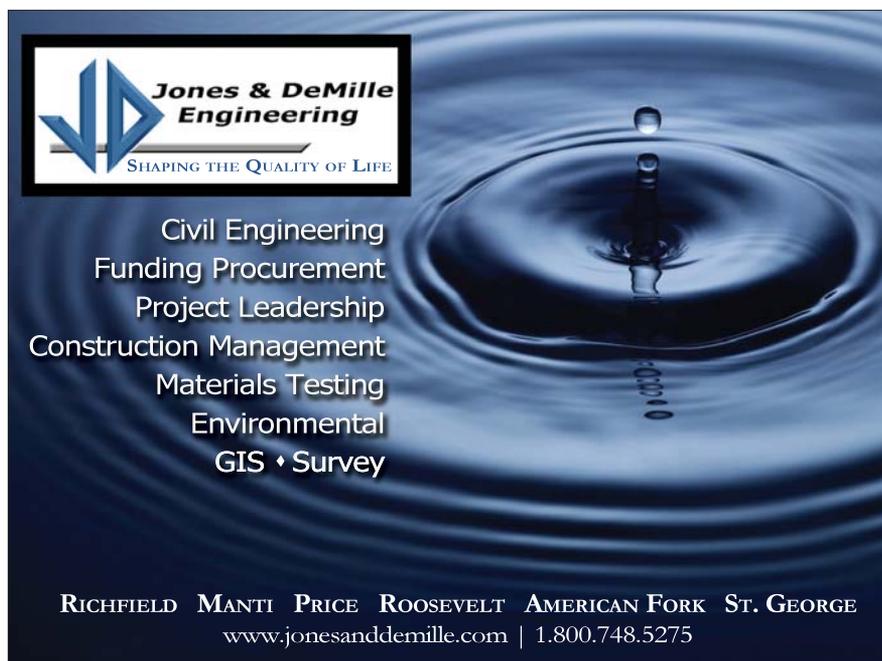
Ying-Ying Macauley, Division of Drinking Water

Ballroom CD

Proposed UPDES

Electronic Reporting Rule

How does the proposed UPDES Electronic Reporting Rule affect me? This proposed rule would require that NPDES regulated entities electronically



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Friday Sessions

submit the following permit and compliance monitoring information instead of using paper reports: Discharge Monitoring Reports (DMRs); Notices of Intent to discharge in compliance with a general permit; and program reports. It is anticipated that the proposed rule will save resources for states, and NPDES permittees—come learn all about it. **Matt Garn & Edith VanVleet**, Division of Water Quality

Ballroom E Water System Security and Cross Connection Control

Water distribution system integrity is based on the proper installation. However, with opportunity and availability, changes are made, approved and otherwise. Older systems are more susceptible to unplanned interconnections. These quickly affect the system integrity with used or unapproved water. Knowledge, understanding of components, management skills and vigilance allow a water authority to control their system and ensure protection through simple, manageable and enforceable steps. **Michael Moss**, Division of Drinking Water

Ballroom F Professional Communications

Professional communication involves how we create and exchange messages with others in an appropriate and effective way. Communication can come through face-to-face interaction, talking on the phone, social networking sites, email, and other forms of written communication. In this session you will learn the power of engagement, energy, and other physiological and psychological tools that will help you (personally and professionally) and your organization communicate effectively through the various communication channels we use today. **Brendan Dalley**, Dixie Applied Technology College

Entrada A Jar Testing

This two-part session on jar testing will include a live jar test demonstration that shows how to reduce both turbidity and TOC. We will review basic math and show how to verify that you are getting the best bang for your water treatment buck. This is a good review for those who do jar test and a great primer for those that want to

learn how to conduct jar tests for product selection for the best quality water with today's regulations. **Randy McIff**, Alpine Technical Services

9:45 – 10:45 am Sessions

Museum Auditorium Impact Fee Pitfalls

Under Utah law, both governmental and non-governmental culinary water providers must comply with the Impact Fee Act. This session will focus on how to make sure fees charged by water and wastewater treatment entities comply with the law and give tips on avoiding legal conflicts along the way. **J. Craig Smith**, Smith Hartvigsen, PLLC

Ballroom AB So You Have a Violation? What Happens Next?

Come hear from the Division of Drinking Water on how their enforcement processes work, including the lifecycle of a violation, ETT vs. IPS, AO vs. BCA (CA/EO) and CAP meetings. **Jennifer Yee & JJ Trussell**, Division of Drinking Water

Ballroom CD Dentist

This session will cover pretreatment 101 and the new dental amalgam rule that will apply to every dentist discharging to a wastewater treatment plant. **Jennifer Robinson**, Division of Water Quality

Ballroom E YOUR Safety First

I've got an unpleasant truth for you: nobody's got your back—but you! We

may all be in this together, but at the end of the day, you are the only one ultimately responsible for your safety. This presentation uses real life accidents and experiences to reinforce the important steps each of us must take to make sure we go home in one piece at the end of the day. **Jason Watterson**, Utah Local Governments Trust

Ballroom F Professional Communications

This session is continued from the Professional Communications session described in the 8:30 session. **Brendan Dalley**, Dixie Applied Technology College

Entrada A Jar Testing

This session is continued from the Jar Testing session described in the 8:30 session. **Randy McIff**, Alpine Technical Services

11:00 am – 12:00 pm Sessions

Museum Auditorium Time Management

One of my favorite songs contains the lyric, "The world ain't slowin' down." With our lives moving at breakneck speed and with technology beeping, buzzing and chirping at us 24/7, how can you learn to manage your time and not let it manage you? Take a break from your busy life! Come enjoy some home-baked chocolate chip cookies and learn some time management and stress relief tips and techniques that can change your life for the better. **Sydne Jacques**, Jacques & Associates

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Friday Sessions

Ballroom AB

Accessing Online Reports & the New Standard Reports

The Division of Drinking Water has altered the reports you know so well (Monitoring Schedule, Inventory, IPS etc.) This session will go over the changes that have been made and help you adjust to the transition. It will also give an overview of all of the Division's online reports available to assist in the management of your water system including electronic forms and mobile apps.

Colt Smith, Division of Drinking Water

Ballroom CD

Wastewater Reuse

The Clark County Water Reclamation District in Nevada has it down when it comes to wastewater reuse: they collect more than 90,000,000 gallons of wastewater every single day, 365 days of the year and treat 93 million gallons of wastewater on a daily basis, through physical, biological, and chemical treatment systems, to be reused or returned to the Las Vegas Wash. They also provide up to 7 million gallons of cleaned re-useable water for irrigation on golf courses and parks or industrial coolant use, which saves the

potable water for drinking. Come learn what Clark County is doing at their facility, and how you can do the same at yours.

Leanna Risso, Clark County Water Reclamation District

Ballroom E

Know What's Below.

Call 811 Before You Dig.

Blue Stakes of Utah is the statewide one-call notification center to contact and request underground utility lines be located and marked before excavation activities begin. Service is free of charge for home owners and excavators: participating utility companies pay the cost for the service. REMEMBER IT'S THE LAW—CALL 811 BEFORE YOU DIG!

Spence Felsted, Blue Stakes of Utah

Ballroom F

A Tour of Current Technology and Trends

Come get an overview of the technology available to you right now, and how you can use it to make your job easier and more efficient. We will look at what is available now and in the future, as well as what

it will take to convert to the latest technology—it may be easier than you think!

Steven Wittekiend, Dixie Applied Technology College

Entrada A

Membrane Filtration for Culinary Water Treatment

Ogden City is currently in the process of upgrading their existing water treatment plant. The existing sand filters, constructed in 1954, are nearing the end of their useful life. Come see why Ogden City chose to replace their sand filters with a membrane water treatment plant. This class will discuss the process of selecting a technology, selecting treatment plant manufacture and piloting the selected technology to prove the effectiveness and efficiency of the membrane.

Marv Wilson, Sunrise Engineering

12:00 pm

Garden Room

Evaluation Form &

Dart Throw Prize Drawing Finale

12:45 pm

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THE R900® SYSTEM

Exhibitors

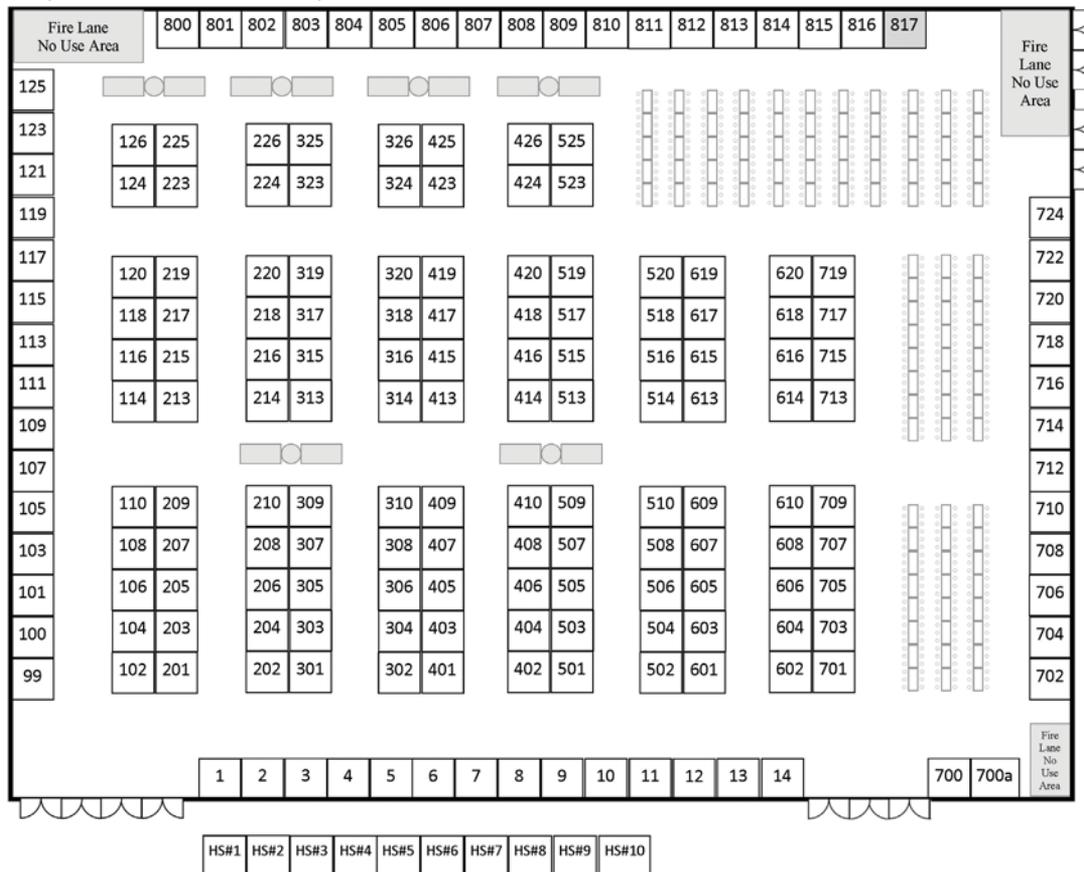
Booth	Company	Phone
117	Airvac	574-527-1157
523	AllChem Performance Products	352-213-0121
309	Ambiente H2O Inc	801-532-4812
609	AmeriWest Water Services Inc	208-861-3410
506	Aqua Engineering	801-299-1327
508	Aqua Environmental Services Inc	801-209-6382
310	Aries Industries	800-264-7205
11	AVI Rocky Mountain	435-671-9583
111	AY McDonald	435-760-0703
425	BioLynceus	970-586-3391
603	Blake Sales Co.	801-930-5200
226	Blue Stakes of Utah	801-208-2116
520	Bowen Collins & Associates	801-495-2224
3, 4	C.H. Spencer	801-478-3446
715, 717	Chanshare, Inc.	435-854-3627
712	Chemtech-Ford	801-262-7299
806	Concrete Stabilization Technologies, Inc.	303-306-9191
513	Delco Western	801-972-0900
515	Delco Western	801-972-0900
802	DEWCO Pumps & Equipment, Inc.	303-232-6861
203	Ditch Witch of the Rockies	801-974-9600
HS 10	Division of Drinking Water	801-536-0089
HS 4	Division of Drinking Water	801-536-4200
5	Division of Drinking Water	801-536-4200
6	Division of Drinking Water	801-536-4200
HS 8	Division of Water Quality	801-536-4344
418	DN Tanks	619-270-4574
314	Dorsett Technologies	801-430-3443
10	Draeger Safety Inc.	801-928-1777
405	E.C.T. Sales and Service	801-417-5733
608	EarthFax Engineering Group, LLC	801-561-1555
406	Eco-EnergySystems Company LLC	801-542-9610
408	Eco-EnergySystems Company LLC	801-542-9610
316	EJ	801-698-3078
318	EJ	801-698-3078
320	EJ	801-698-3078
616	Empire West Pipe	801-812-2823
GR 5	Engineering America, Inc.	970-962-9400
413	Epic Engineering	435-654-6600
415	Epic Engineering	435-654-6600
410	Ferguson Waterworks	435-673-6896
509	Ferguson Waterworks	435-673-6896
407	Filter Tech Systems	970-254-2855
303	Flexamat	801-451-0830
223	Ford Meter Box Company, Inc.	801-458-6124
700	Franson Civil Engineers Inc	801-756-0309
700a	Franson Civil Engineers Inc	801-756-0309
707	G & S Sales	801-972-0659
709	G & S Sales	801-972-0659
519	Geneva Pipe	801-505-6294
503	GF Piping Systems	714-368-4112
324	Goble Sampson	801-268-8790
326	Goble Sampson	801-268-8790
424	Hach	801-599-5852
414	Harmsco Filtration Products	561-848-9628
102	HD Supply Waterworks	801-628-7970
201	HD Supply Waterworks	801-628-7970
202	HD Supply Waterworks	801-628-7970
301	HD Supply Waterworks	801-628-7970
305	High Country Fusion	208-293-9560
713	Holland Equipment	801-972-1601
525	Horrocks Engineers	801-763-5131
302	HyDEC Corp.	925-803-4646
401	HyDEC Corp.	925-803-4646

Booth	Company	Phone
502	Hydro Specialties Company	801-562-9130
601	Hydro Specialties Company	801-562-9130
5	ICS Sales	303-635-9888
GR 8	Industrial Process Technologies	303-975-9487
GR 9	Industrial Process Technologies	303-975-9487
804	Inman Interwest	801-557-4959
419	Intermountain Bobcat	801-262-0208
417	Intermountain Sales, Inc.	303-762-1070
420	Intermountain Sales, Inc.	303-762-1070
809	Intermountain Traffic Safety	801-972-6515
325	INTERNATIONAL WATER SCREENS	661-979-7206
109	Isco Industries	801-209-9420
GR 6	isiWEST	801-718-6518
GR 7	isiWEST	801-718-6518
504	Itron	612-719-1161
113	J-U-B Engineers	435-713-9514
115	J-U-B Engineers	435-713-9514
99	Jones & DeMille Engineering	435-896-8266
615	Kamstrup Water Metering	404-835-6716
104	LaTech Equipment	801-886-1145
805	Legacy Equipment Company	801-975-0400
205	Loughlin Water Associates, LLC	435-649-4005
423	Majestic Glove	801-558-9676
2	Master Meter inc	801-643-5891
800	MeterWorks	801-292-7900
801	MeterWorks	801-292-7900
119	Midco Diving & Marine	970-532-2128
702	Monsen Engineering	801-531-6505
213	Mountain Contractors Supply	801-224-6050
215	Mountain Contractors Supply	801-224-6050
217	Mountain Contractors Supply	801-224-6050
219	Mountain Contractors Supply	801-224-6050
409	Mueller Co	801-910-0806
GR 4	Nelson Environmental Inc.	204-949-7500
304	Nickerson Company, Inc.	801-973-8888
306	Nickerson Company, Inc.	801-973-8888
617	NKD Technologies, LLC	888-495-3076
614	Northtown Company	714-897-0700
323	Pall Corporation	607-758-1740
507	peck striping inc	801-965-9995
814	Pipeline Inspection Services	208-941-1733
106	Pollardwater	800-437-1146 x 207
116	Protection Engineering	801-785-1546
5	RAVEN PRODUCTS	208-631-0304
724	RED FLINT SAND & GRAVEL LLC	715-855-7600
12	Remote Control Systems Inc	801-268-1198
218	Rocky Mt Valves & Automation	801-438-1038
220	Rocky Mt Valves & Automation	801-438-1038
317	Rocky Mt Valves & Automation	801-438-1038
319	Rocky Mt Valves & Automation	801-438-1038
207	Romac Industries	801-458-5360
114	RS Technical Services	800-767-1974
817	Rural Water	801-391-7190
LLS 1	Rural Water	801-391-7190
505	Rural Water Impact	888-551-4815
124	Safety Supply and Sign	801-973-2266
126	Safety Supply and Sign	801-973-2266
501	Safety West Inc.	801-972-5800
602	Scholzen Products Co, Inc.	435-635-4441
604	Scholzen Products Co, Inc.	435-635-4441
701	Scholzen Products Co, Inc.	435-635-4441
703	Scholzen Products Co, Inc.	435-635-4441
216	SCI Automation	435-671-5088
13	SEMI SERVICE INC.	385-234-6222
14	SEMI SERVICE INC.	385-234-6222

Booth	Company	Phone
510	SKM Inc.	801-683-3760
416	Smith Hartvigsen PLLC	801-413-1600
110 209	Southwest Plumbing Supply	435-586-6464
517	Staker Parson Companies	801-409-9500
313 315	Sunrise Engineering	435-743-6151
402	Sunstate Equipment	801-364-4408
518	Swan Analytical USA Inc.	847-229-1290
807	Tank Industry Consultants	916-717-3608
812	Ten Point Sales	303-233-3883
1	The Water Title Guy, LLC	801-300-0755
118	TMMI	801-268-3216
308	Tnemec/Call Coating Consultants	801-282-2327
307	Traffic Safety Rentals	801-627-1970
610	TRIPAC	951-280-4488
120	Trumbull Industries	330-270-7851
618 620	Twin D Environmental Serv	801-771-3038
214	TYLER/UNION	720-480-6688
606	U.S.F Fabrication Inc.	971-246-2750
605	Underground Solutions	724-353-3000
705	US EPA Water Security Division	202-564-3797
224	USABlueBook	847-377-5162
HS 7	USDA Rural Development	801-524-4324
GR 3	Utah Disaster Kleenup	801-553-1010
HS 9	Utah League of Cities & Towns	800-852-8528
619	Utah Local Governments Trust	800-748-4440
404	Utah Office of Energy Development	801-538-8683
607	Utah Retirement Systems	801-366-7491

Booth	Company	Phone
GR 1 GR 2	Utility Coatings & Fabrication	801-280-1930
225	Utility Management Systems	801-486-7700
121	UTILITY SERVICES ASSOCIATES	206-244-0370
123 125	Val Kotter & Sons Inc.	435-734-9598
719	Vermeer Rocky Mountain	801-975-1216
9	VFC	801-292-2956
8	VFC /Mission	425-698-3030
108	VSL	303-456-9887
720	Wasatch Barricade	801-660-9917
403	Water Remediation Technology LLC (WRT)	303-424-5355
103 105	Water Services	801-705-4567
514 516 613	Waterford Systems	801-463-9900
722	WesTech Engineering, Inc	801-290-5633
107	Western Engineering	801-268-3333
6 7	Western Water Works Supply Co.	909-630-6083
426	Wise Safety and Environmental	801-978-3755
803	WL Plastics Corp	682-831-2726
100 101	Wm. H. Reilly & Co	801-201-3121
204 206 208 210 816	WR White Supply	801-626-1314
HS 1 HS 2	Zions Bank Public Finance	801-844-8369

Copies of finalized map / booth locations will be given out at the Conference



Outside Display Area

Exhibit Hours
Wednesday
 7:30 am-4:00 pm &
Thursday
 7:30 am-1:00 pm

The Dixie Center

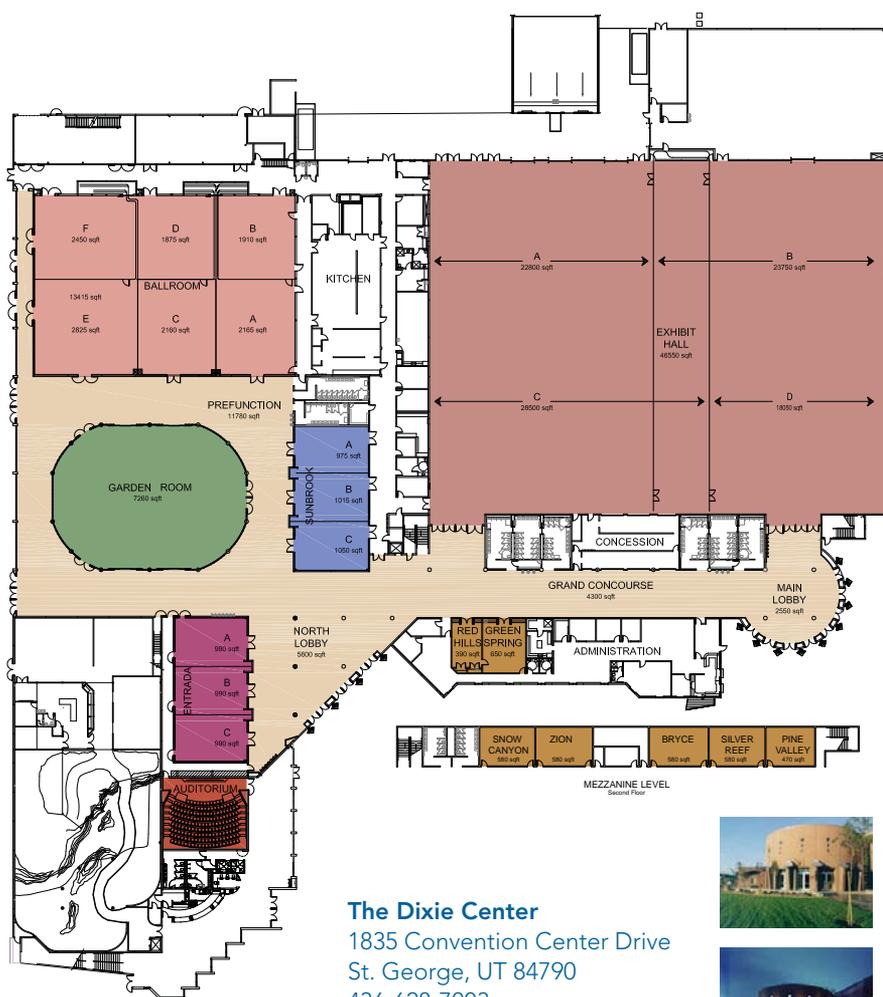
Driving Directions to the Dixie Center:

From the North:

- Take I-15 South to St. George. Exit at Bluff Street (Exit 6)
- Turn left on Bluff Street at stoplight
- Pass through the first stoplight on Riverside Drive
- Turn right at the second stoplight onto Convention Center Drive
- Drive 2 blocks
- The Dixie Center is located on the left-hand side of the street

From the South:

- Take I-15 North to St. George. Exit at Bluff Street (Exit 6)
- Turn right on Bluff Street
- At the stop light, turn right on Convention Center Drive
- Drive 2 blocks
- The Dixie Center is located on the left-hand side of the street



The Dixie Center
 1835 Convention Center Drive
 St. George, UT 84790
 436-628-7003
 800-748-5011
www.dixiecenter.com

Thank you to the dedicated staff at the Dixie Center for their excellent service in hosting this Conference! We appreciate you!

Hotel Accommodations

All reservations are handled directly with the hotel.

There are many hotels to choose from in the St. George area. All of the hotels listed have offered our attendees a discounted rate. Unless otherwise noted, when making your reservations with these hotels, mention "Rural Water" to get the specialty rate. **And remember, most discounted rates expire a month before the Conference so make your reservations early!**

HOTELS/ MOTELS		
America's Best Value Inn <i>(Ask for Tammie)</i>	435-688-8383	Hampton Inn 435-652-1200
Best Western Abbey Inn	435-652-1234	Hilton Garden Inn 435-634-4100
Best Western Coral Hills	435-673-4844	Howard Johnson Inn & Suites 435-628-8000
Clarion Suites	435-673-7000	La Quinta 435-674-2664
Comfort Inn	435-628-8544	Lexington Hotel 800-457-9800
Crystal Inn	435-688-7477	Ramada 435-628-2828
Days Inn	435-673-6123	St. George Inn and Suites 435-673-6661
Fairfield Inn by Marriott	435-673-6066	Wingate by Wyndham 435-673-9608

RWAU Board and Staff

RWAU BOARD



RWAU President
Paul Fulgham
Tremonton



RWAU Vice-President
Ken Snook
Price River Water ID



**RWAU Sec-Treas/
Legislative Chair**
Scott Anderson
Woods Cross



RWAU Past President
Gary Larsen
Millville



Brett Chynoweth
Tropic Town



Boyd Workman
Ashley Valley WSID



David Gardner
WaterPro



Alan Riding
Delta City



Rick Wixom
Springdale



Nathan Langston
Monticello City



Rauni Guffey
Tabiona



Kent Barton
Manti City

RWAU STAFF



Executive Director
Dale Pierson



Chief Financial Officer
Vern Steel



On-Site Trainer
Charles Jeffs



**Wastewater
Technician**
Terral Dunn



**Development
Specialist**
Curtis Ludvigson



Certification Trainer
Clyde Watkins



Circuit Rider
Greg Johnson



**Management
Technician**
Terry Smith



**Source Water
Technician**
Mike Osborn



Circuit Rider
David Pugsley



Training Specialist
Kris Hunter



**Compliance Circuit
Rider**
Brian Pattee



Training Supervisor
Shannon Rasmussen



Education & Exams
Shantell Cummins



Membership & Media
Maria Sanders

Our mission is to provide professional training, support services, and representation for water and wastewater members to help enhance the quality of services to their customers.

Advanced Registration Form

Rural Water 34th Annual Conference (February 23—27, 2015)

Name _____ System/Company _____
 Business Address _____ City _____
 State: _____ Zip _____ Phone _____ E-mail _____

Registration Options	Member	Nonmember
Full Conference (1 registration) Tuesday's In-Depth Training; All Regular Conf. Sessions; Awards Banquet; Exhibit Hall	<input type="checkbox"/> \$340	<input type="checkbox"/> \$440
Regular Conference (1 registration) All Regular Conf. Sessions; Exhibit Hall. DOES NOT INCLUDE Tues. Training or Awards Banquet	<input type="checkbox"/> \$210	<input type="checkbox"/> \$310
Water Operator Certification Class* (Begins Feb. 23 @ 1 pm) Certification Classes; Test Fee; Review Book; Exhibit Hall; Awards Banquet <i>*You MUST contact Shantell @ 801-756-5123 by February 6, 2015 to register to take the water certification test!</i>	<input type="checkbox"/> \$440	<input type="checkbox"/> \$540
Wastewater Operator Certification Class* (Begins Feb. 23 @1 pm) Certification Classes; Review Book; Exhibit Hall; Awards Banquet <i>*Wastewater Test registration & fee must be sent directly to DWQ NO LATER THAN Jan. 30, 2015! Download an exam application from deq.utah.gov/certification/wq/opcert/ and submit to DWQ with the fee. Contact Judy @ 801-536-4344 with questions.</i>	<input type="checkbox"/> \$340	<input type="checkbox"/> \$440
Tuesday's In-Depth Training	<input type="checkbox"/> \$105	<input type="checkbox"/> \$155
Wednesday Only (DOES NOT include Awards Banquet)	<input type="checkbox"/> \$105	<input type="checkbox"/> \$155
Thursday Only	<input type="checkbox"/> \$105	<input type="checkbox"/> \$155
Friday Only	<input type="checkbox"/> \$80	<input type="checkbox"/> \$105
Partner's Program (1 registration) Partner's Craft; Access to Training Sessions; Exhibit Hall (DOES NOT include Awards Banquet) Partner Name _____	<input type="checkbox"/> \$90	<input type="checkbox"/> \$115
Awards Banquet Wed., Feb. 25 Dinner, Awards Ceremony & Entertainment	<input type="checkbox"/> \$40 x _____	
Golf Scramble Tues., Feb. 24 (E-mail steel@rwau.net with questions or to sponsor)	<input type="checkbox"/> \$80	
Skeet Shoot Thursday, Feb. 26, 3:00 pm until dark Additional Shooter Name(s) _____	<input type="checkbox"/> \$30 x _____	
Additional Meals	<input type="checkbox"/> Wed. Lunch \$20 x _____ <input type="checkbox"/> Thurs. Lunch \$20 x _____	
Late Fee (Applies if you are registering after February 13, 2015)	<input type="checkbox"/> \$25	
PAYMENT TOTAL		\$ _____

Bill Me Enclosed is my check. Check # _____

Please charge my MC Visa Am. Ex. Discover

Card Number _____

Expiration Date _____ Security Code _____ Billing Zip _____

Cardholder Name _____ E-mail (for receipt) _____

Sign _____

Refunds Before February 13, 2015: Refund of full amount less \$25 admin. fee. After February 13, 2015: No Refund

Optimum efficiency. Reduced maintenance.

Meet MaximOS™, the only self-cleaning electrolytic cell that offers:

- **Ease of maintenance:** self-cleaning system doesn't require acid washing as a normal maintenance task
- **Adaptability:** convertible between mixed oxidant and hypochlorite chemistries with minimal changes
- **Expandability:** modular cell packs allow for expansion of chlorine capacity without increasing equipment footprint

Applications:

- Final disinfection
- Biofilm removal for better chlorine residual
- Disinfection by product reduction
- Chemical savings by microflocculation



Contact us!

Parkson

John Deogracias

jdeogracias@parkson.com

Phone: 480.220.2327

Local representative

Geiger - Baltimore, MD

www.geigerinc.com

Phone: 410.682.2660

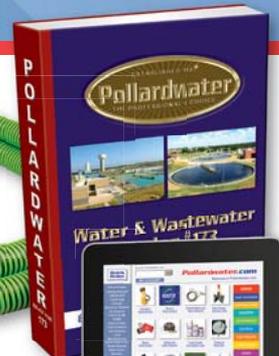


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