



## Our water. Our future. Our choice.

The purposes of the District include planning for and facilitating the long-term conservation, development, protection, distribution, management and stabilization of water rights and water supplies for domestic, irrigation, power, manufacturing, municipal, recreational and other beneficial uses, including the natural stream environment, in a cost-effective way to meet the needs of the residents and growing population of Cache County.

[www.cachewaterdistrict.com](http://www.cachewaterdistrict.com)

## CACHE WATER DISTRICT BOARD OF TRUSTEES MEETING MINUTES September 16, 2019

The Cache Water District Board of Trustees convened for on September 16, 2019 at 5:30 p.m. In the Cache County Historic Courthouse, Council Chambers, 199 North Main Street, Logan, Utah.

### **MEMBERS OF THE BOARD IN ATTENDANCE:**

Jeannie F. Simmonds – Logan #1 Council District  
Jonathan W. Hardman – South Council District  
Scott Clark - Logan #2 Council District  
Max Pierce – North Council District  
Bret Randall – Northeast Council District  
Don Baldwin – Agricultural Representative  
Kirt Lindley – At-Large Position  
Herm Olsen – Logan #3 Council District  
Shaun Dustin – Southeast Council District  
David Erickson – At-Large Position

### **MEMBERS OF THE BOARD ABSENT:**

Jared Clawson – At-Large Position

**OTHERS IN ATTENDANCE:** Nathan Daugs (Manager), Zan Murray (J-U-B Engineers), Amanda Pieper (USU Extension), Kelly Kopp (USU Extension), Colten Smith (USU Extension), Chris Slater (J-U-B Engineers), Lisa Welsh (USU), Hilary Shughart (Bridgerland Audubon Society), Jim DeRita (Trout Unlimited), Nathan Wright (CRS Engineers), Chad Brown (Franson Civil Engineers), Debbie Zilles

### **CALL TO ORDER**

The meeting was called to order by Chairman Hardman at 5:30 p.m.

Consideration for minutes from August 19, 2019 and agenda for September 16, 2019.

**ACTION: Motion by Mr. Olsen to approve the agenda and the minutes as submitted. Seconded by Mr. Lindley. Motion approved unanimously.**

### **PUBLIC COMMENT**

None

## REVIEW CALENDAR & ACTION REGISTER

- Sept. 20 - Logan River Task Force meeting at Logan City Hall Public Conference Room 8:00 a.m. – 1:00 p.m.
- Oct. 8 – Cutler Dam Relicensing Process
- Oct. 29 - Utah Water Conference Summit at Utah Valley Convention Center in Provo.
- Nov. 7 – 2019 Cache Summit

## FINANCIAL REPORT

Ms. Simmonds presented the monthly financial report (see **Attachment 1**). She pointed out that the \$22,271.86 listed as “*Restricted Income – Other*” is the state’s portion of the cloud seeding program.

Mr. Randall asked about the personnel budget. Ms. Simmonds explained that the percentage listed on the report is based on the number of months; the 86.6% is for 8 months, not the entire year.

## MANAGER’S REPORT

Office Space Discussion – Cache County is hiring a County Administrator, who will be taking the office that the Water District is currently using. Mr. Daus said a decision needs to be made for a another location.

Ms. Simmonds thought that as part of the interlocal agreement, the County would provide a space for the period they were supporting the District (which should be reviewed). Mr. Dustin asked Mr. Daus to put together what is needed for space and a reasonable budget with possible location options. Mr. Daus pointed out that if the Crockett grant goes through, that may dictate how to move forward. He will put together an assessment to present at the October meeting (**Action Item**).

ASR Grant Proposals – Mr. Daus explained that there are a few opportunities to submit for 50% funding for further studies on Green Canyon and a well located in the island area in Logan (to provide more information on the feasibility and long-term potential for ASR). The applications are due to be submitted next month and Mr. Daus has been working on getting them ready. Chairman Hardman believes this may be valuable research based on last month’s presentation on ASR. Mr. Daus has been working with Franson Civil Engineers and will send out the information via email for members to review prior to submittal. (**Action Item**)

Developing outreach information for SB52 – Mr. Daugs is helping canal companies get linked to the website for information on what needs to be done. The task force will be meeting in the next few weeks to look at what adjustments need to be made. Mr. Daugs is serving on the task force and will keep the Board updated.

Other – After receiving information from the state, it has been determined that a Truth in Taxation hearing is not required until the fall of 2021.

Ms. Simmonds advised that the Regional Water Conservation Goals Draft is online and taking public comment through September 25. She encouraged all members to take time to review the report. The link is <https://water.utah.gov/regional-conservation-goals/>

## **SUMMER WATER AUDITS REPORT**

Amanda Pieper from the USU Extension Office provided an overview of the program. Over the course of the summer, 32 water checks in Cache County were done. The biggest challenge was getting the word out about the program. There is a list of interested people who will be scheduled for next summer. Many people were surprised with the efficient landscaping information that was provided. On average, homeowners watered 30 minutes daily. Her recommendation for next year would be to add more people to help with the checks (it is more efficient to have two people go to each appointment, specifically a volunteer with a landscaping professionals who can help answer specific questions).

Chairman Hardman asked for her to describe the process. Ms. Pieper said the water checks included discussing concerns, finding out what information was needed and then checking the sprinklers. The output of the sprinklers was measured, data was compiled and each homeowner was given a recommendation for improvement and working out a plan for a more efficient watering schedule.

Mr. Randall asked what motivated people to call in and request a check. Ms. Pieper said some homeowners wanted to decrease the amount they were paying and others wanted information on how to be more conservative.

Ms. Pieper said providing outreach earlier would be a recommendation so that more appointments could be scheduled earlier in the summer.

Chairman Hardman said the regional target is to achieve a 20% reduction and from the information, it appears as if most homeowners were watering twice as much as necessary, which, with just the educational component alone, there could be quite a savings in the conservation effort. Kelly Kopp explained that similar programs have been running in the state for over 20 years. The program with the most data collection and analysis is Salt Lake City, where it was determined that people tend to irrigate twice as much as necessary. The analyzation of billing information, prior and post participation, is showing an average savings of ~30%.

Mr. Daugs suggested hosting a workshop at the beginning of the season. Mr. Randall suggested including the media. Ms. Kopp recommended marketing the program at the Gardener's Market and including information in utility billing statements. Education is a key component. Mr. Erickson suggested creating a short educational video of the process that can be shared and linked to the Water District website.

Hilary Shughart noted that Mayor Daines has started neighborhood councils in Logan City, which might be a good avenue to promote the program, as well as putting the brochure on the Water District's website. The Bridgerland Audubon Society hosted Cynthia Bee for a Localscapes (Jordan Valley Water Conservancy) program, there were 82 people in attendance on a Saturday morning and she did a great job. <https://localscapes.com>. One concern she mentioned was that volunteers are not allowed to help reset sprinkler controllers. Ms. Kopp noted that this is a liability issue, however, generally when the final report is sent to the homeowner, it will link to the manual for the specific controller. Volunteers can also help talk the owner through the process and answer questions.

Mr. Randall noted that Ms. Pieper provided a brief presentation about the program to North Logan City Council and he appreciated her willingness to do that. He encouraged the Board members to take the information to their respective City Councils.

Ms. Pieper was thanked for all her hard work.

#### **WATER MASTER PLAN PROGRESS UPDATE – JUB Engineers**

(See **Attachment 2**)

Mr. Dustin asked what the incentive would be to participate in any type of conservation. For example, as a water right owner, if conservation efforts are taken and water consumption is reduced, what happens to the unused water if they are not allowed to sell it and the state could possibly take it away and use it elsewhere. One question would be why local funds would be spent if the benefit would be outside the valley. Mr. Daugs said the state water engineer is looking at this very issue. Mr. Dustin said the Board has an opportunity to take an official position as the Master Plan is updated. Mr. Baldwin said agriculture water is still essential for production and can be used more efficiently without losing it. Ms. Simmonds said water banking will become integral to this discussion and solution, specifically the idea that water may be leased to another user. Mr. Erickson suggested including information outlining what outcome options might be available as a result of conservation of the water. Mr. Dustin agreed and pointed out that there is economic value in conserved water and the County's position should be that it remain as a local benefit, or another jurisdiction should pay for it. Mr. Baldwin advised that part of the responsibility of the Board is to protect the water in Cache Valley. Ms. Simmonds said growth needs to be considered as well and agreed with Mr. Dustin that the Board's goal is to preserve, protect and enhance the water system and water rights in Cache Valley. Mr. Dustin pointed out that the state constitution says water belongs to the state, he suggested establishing a position that Cache Valley water belongs to the Valley and if there are changes or impacts, who that would benefit.

Mr. Randall noted that the potential growth will put a strain on current culinary systems. He would like to see some type of agreement/plan to come up with a delivery system to bring irrigation water above (east of) the canals on land that traditionally does not have water rights. If the City/County/Water District can procure water rights with the canal companies for water that traditionally goes west of the canal, it could be piped or pumped east of the canal, to help take the stress off the culinary systems.

A work session with J-U-B Engineers to continue discussion will be scheduled  
(Action Item) (Meeting scheduled for September 23, 2019, 3:00-5:00 p.m. at J-U-B office)

**ADJOURN**

The meeting adjourned at 7:05 p.m.

# -ATTACHMENT 1- Financial Report

## Cache Water District Profit & Loss Budget vs. Actual January through August 2019

	Jan - Aug 19	Budget	\$ Over Budget	% of Budget
<b>Ordinary Income/Expense</b>				
<b>Income</b>				
Cache County	295,250.00	250,000.00	45,250.00	118.1%
<b>Restricted Income</b>				
Northern Utah Water Conference	2,215.00			
Restricted Income - Other	22,271.86	1,373.61	20,898.25	1,621.4%
<b>Total Restricted Income</b>	24,486.86	1,373.61	23,113.25	1,782.7%
<b>Total Income</b>	319,736.86	251,373.61	68,363.25	127.2%
<b>Gross Profit</b>	319,736.86	251,373.61	68,363.25	127.2%
<b>Expense</b>				
<b>Office</b>				
Insurance and Bonding	3,157.00			
Office Supplies	631.93	1,336.00	-704.07	47.3%
Publications	0.00	2,000.00	-2,000.00	0.0%
Rent	0.00	3,668.00	-3,668.00	0.0%
<b>Technology</b>				
Cell Phone	453.20			
Computer and printer	683.42			
Technology - Other	0.00	2,000.00	-2,000.00	0.0%
<b>Total Technology</b>	1,136.62	2,000.00	-863.38	56.8%
<b>Total Office</b>	4,925.55	9,004.00	-4,078.45	54.7%
<b>Outreach</b>				
Conservation	4,325.00	11,000.00	-6,675.00	39.3%
Dues	500.00	1,336.00	-836.00	37.4%
Northern Utah Water Conference	2,126.06			
Training	1,678.32	4,000.00	-2,321.68	42.0%
Website	265.92	1,668.00	-1,402.08	15.9%
Outreach - Other	205.00			
<b>Total Outreach</b>	9,100.30	18,004.00	-8,903.70	50.5%
<b>Personnel</b>				
Salary and benefits	63,503.66	73,332.00	-9,828.34	86.6%
Travel and Mileage	5,696.14	6,668.00	-971.86	85.4%
<b>Total Personnel</b>	69,199.80	80,000.00	-10,800.20	86.5%
<b>Professional Fees</b>				
Administrative	370.00			
Attorney Services	0.00	20,000.00	-20,000.00	0.0%
Audit	0.00	4,668.00	-4,668.00	0.0%
Financial Services	235.00	6,668.00	-6,433.00	3.5%

**Cache Water District**  
**Profit & Loss Budget vs. Actual**  
 January through August 2019

	<u>Jan - Aug 19</u>	<u>Budget</u>	<u>\$ Over Budget</u>	<u>% of Budget</u>
<b>Total Professional Fees</b>	805.00	31,336.00	-30,731.00	1.9%
<b>Project funding</b>				
Cloud Seeding	16,336.83	33,332.00	-16,995.37	49.0%
Water Master Plan	0.00	26,668.00	-26,668.00	0.0%
<b>Water Studies</b>				
Crockett Study	5,974.71			
Water Banking	7,534.58			
Water Studies - Other	0.00	13,332.00	-13,332.00	0.0%
<b>Total Water Studies</b>	<u>13,509.29</u>	<u>13,332.00</u>	<u>177.29</u>	<u>101.3%</u>
<b>Total Project funding</b>	<u>29,845.92</u>	<u>73,332.00</u>	<u>-43,486.08</u>	<u>40.7%</u>
<b>Total Expense</b>	<u>113,676.57</u>	<u>211,676.00</u>	<u>-97,999.43</u>	<u>53.7%</u>
<b>Net Ordinary Income</b>	<u>206,060.29</u>	<u>39,697.61</u>	<u>166,362.68</u>	<u>519.1%</u>
<b>Net Income</b>	<u><u>206,060.29</u></u>	<u><u>39,697.61</u></u>	<u><u>166,362.68</u></u>	<u><u>519.1%</u></u>

**-ATTACHMENT 2-**

# Master Plan Update



Board Meeting – September 16, 2019

Cache Water District



# Stakeholder Interviews



Key Person Interviews		
Name	Organization	Role
Jim Watterson	Bear River	River Commissioner
Darin Evans	Summit Creek	River Commissioner
Colleen Jashinsky	Logan River	River Commissioner
Clint Hansen	Little Bear River	River Commissioner
Jason Fuhriman	Providence/Blacksmith Fork Canal	Key Irrigator
Jon Hubbard	Providence/Blacksmith Fork Canal	Key Irrigator
Jeremy Kimpton	Richmond City	City Administrator
Darek Kimball	Richmond City	City Engineer
Scott Wells	Wellsville City	City Manager
Tom Bailey	Wellsville Irrigation / Wellsville City	President/Mayor
John Drew	Providence City	Mayor
Scarlet Bankhead	Providence City	Administrative Services Director
Rob Stapley	Providence City	Public Works Director
Corey Twedt	Millville City	Recorder
David Hair	Millville City	Mayor
Chad Kendrick	Millville City	Recorder
Jordan Oldam	North Logan City	Public Works Director
Zac Root	North Logan City	Water Department
David Wood	Amalga Town	Mayor
David Rosenberg	USU	Water Research Lab
Nancy Mesner	USU	Watershed Sciences
Beliz Lane	USU	Water Research Lab
Frank Howe	USU	Wildland Resources
Clint Carney	USU	Environment & Society
Sarah Null	USU	Watershed Sciences

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- **What can CWD do to help?**

- Provide a voice on legislation
- Provide water technical support
- Protect local water interests
- Continue to be “accessible”
- Funding
- Build trust between water entities
- Be a source of water information

Objective Type	Objective
<b>Water Supply</b>	Protect existing water rights
	Protect Bear River development water allocated to County
	Provide adequate reliable future culinary supply
	Provide adequate reliable irrigation supply now and in the future
	Maintain existing irrigation delivery systems
	Keep rights to water that are converted from Ag to M&I uses in Cache County
	Match use of water to the water quality
	Conserve Water

Objective Type	Objective
<b>Implementation</b>	Promote collaboration and focus on regional projects
	Minimize costs
	Inform public about Bear River development
	Inform public about current water situation and future anticipated problems

Objective Type	Objective
<b>Environment</b>	Maintain or improve environmental quality
	Protect water quality and drinking water sources
	Minimize power consumption to operate water systems

# Evaluation Matrix



Projects

Objectives

PROJECT ALTERNATIVES	OBJECTIVES																			
	Water Supply									Implementation					Environment					
	Protect existing water rights	Protect Bear River development water allocated to users	Provide adequate reliable future culinary supply	Provide adequate reliable irrigation supply now and in the future	Maintain existing irrigation delivery systems	Keep rights to water that are converted from Ag to M&I uses in Cache County	Match use of water to the water quality	Conserve water	Promote collaboration and focus on regional projects	Minimize costs	Inform public about Bear River development	Inform public about current water situation and future anticipated problems	Maintain or improve environmental quality	Protect water quality and drinking water sources	Minimize power consumption, riparian water systems					
METRICS (methods of measurement)																				
<b>Aquifer Storage and Recovery Projects</b>																				
<b>Green Canyon</b> - Study and Develop ASR at mouth of Green Canyon (Study how far out water goes into the aquifer) assume 10 cfs for 180 days = 3,500 ac feet per year	3,500	3,500	3	1,000 to 10,000	0	0	0	0	Less than 50	3 to 5	\$ 500,000	\$ 13.58	50% Grant	None	None	None	None	None	No	Some Increase
<b>River Park Well Study</b> - Study ASR at Logan City River Park Well	5,000	5,000	3	Low	0	0	0	0	More than 15		30		50% Grant	None	None	None	Low	None	No	Some Decrease
<b>Richmond ASR Study</b> - Evaluate potential of storing water from springs in the winter in an existing well near the railroad tracks to improve water quality and increase water supply. (500 gpm for winter months November-March)			1		0	0	0	0						None	None	None	None			
<b>Smithfield ASR Study</b> - Investigate possible ASR project in Smithfield to keep water levels higher in Amalga Wells			2		0	0	0	0						None	None	None	None			
<b>Reservoir Projects</b>																				
<b>Madame Hyman Reservoir</b> - Enlarge Hyman reservoir to provide more irrigation to south Cache irrigators and late season instream flows. Assumed the dam is about 20 feet (a cost benefit evaluation would be needed to see what the ideal height would be). Geotechnical questions? coordination with Bird refuge and transmission lines? needed.	12,000	12,000	15	12,000	0	0	Less than 500	0	Less than 50	8 to 15			70% Funding	None	None	Medium	Medium	Medium	No	No change
<b>How Water in Bear Lake</b> - How stored water through exchanges.	1,500				0															
<b>How Valley Reservoir Study</b> - Evaluate smaller reservoir sites (less than about 500 acre feet each)	60,000	60,000	15	60,000	0	0	Low	0	More than 15				70% funding for irrigation reservoir	None	None	None	None	Low	No	No Change
<b>How River Development Storage</b> - Participate in a state Bear River Development	60,000	60,000	15	60,000	0	0	0	0	1 to 5				70% funding for irrigation reservoir	None	None	None	None	None	No	Large Increase
<b>How High Creek Reservoir</b> - Small reservoir up High Creek (How much water come out of this drainage in the winter)					0															
<b>How Upper Legions</b> - Use Legion river Legions for reservoir storage (3,000 acre feet plus look at use of wetlands and other areas around for storage (Call Clark Galvan on about potential volume that could be stored)	3,000	3,000	15	3,000	0	0	0	0												
<b>How small Temple Fork Reservoir</b> - Small reservoir up Temple Fork maybe at the open Creek - How much could we store there above?	8,000	8,000	15	8,000	0	0	0	0												
<b>How Back Creek Reservoir</b> - Small reservoir on Blacksmith Fork tributary					0															
<b>How Bridge Legion Reservoirs</b> - Design 1st, 2nd, and 3rd Dam reservoirs on the Legion River																				
<b>How Bridge Carter Reservoir</b> - Bridge reservoir																				

## Aquifer Storage and Recovery Projects

**Green Canyon** - Study and Develop ASR at mouth of Green Canyon (Study how far out water goes into the aquifer) assume 10 cfs for 180 days = 3,500 ac feet per year

**River Park Well Study** - Study ASR at Logan City River Park Well

**Richmond ASR Study** - Evaluate potential of storing water from springs in the winter in an existing well near the railroad tracks to improve water quality and increase water supply. (500 gpm for winter months November-March)

**Smithfield ASR Study** - Investigate possible ASR project in Smithfield to keep water levels higher in Amalga Wells

## Reservoir Projects

**Enlarge Hyrum Reservoir** - Enlarge Hyrum reservoir to provide more irrigation to South Cache Irrigators and late season instream flows. Assumed the dam is raised 20 feet (a cost benefit evaluation would be needed to see what the ideal height would be). Geotechnical questions? coordination with Bird refuge and downstream users needed.

**Store Water in Bear Lake** - Use stored water through exchanges.

**Cache Valley Reservoir Study** - Evaluate smaller reservoir sites (less than about 15,000 acre feet each)

**Bear River Development Storage** - Participate in a state Bear River Development

## Reservoir Projects

**Small High Creek Reservoir** - Small reservoir up High Creek (How much water comes out of this drainage in the winter)

**Logan Sewer Lagoons** - Use Logan sewer lagoons for reservoir storage (3,000 acre feet plus?) look at use of wetlands and other areas around for storage (Call Mark Nielsen ask about potential volume that could be stored)

**Small Temple Fork Reservoir** - Small reservoir up Temple Fork maybe above Spawn Creek. How much could we store there above?

**Rock Creek Reservoir** - Small reservoir on Blacksmith Fork tributary

**Dredge Logan River Reservoirs** - Dredge 1st, 2nd, and 3rd Dam reservoirs on the Logan River

**Dredge Cutler Reservoir** - Dredge reservoir

## Water Banking Projects

**State Water Banking Study** - Participate in state pilot study for a CWD water bank, could include the following: investigate banking of conserved water for instream uses, bank water that is made available during conversion from ag to municipal and lease to willing parties, identify water right holders that wish to lease water. Identify entities that have early water not being used to lease to others that need water earlier in the season. (Set up agreements to lease unused early water from Paradise Irrigation to irrigators on the Wellsville Mendon Canal). Identify irrigation companies or irrigators that are willing to not irrigate late in the season and place water rights in a bank to be leased by other users. Develop split season lease agreements for these arrangements.

## Secondary Water Projects

**Crockett Avenue Pressure Irrigation Project** - Construct a secondary water system in Logan to serve the Crockett diversion service area (The western halves of Logan, North Logan, Hyde Park and areas west of the three cities). This project would also include a large east to west storm water trunkline for Logan City near the northern boundary of Logan and a new recreational trail.

**Benchland Irrigation Rights Study** - Identify how we can use conserved water above existing service area (legal issues, water rights). How much water are you going to conserve? Switch shares to M&I and take a cut. Create a new right with a new service area. Get the canal companies to agree to change shares over to M&I.

**Smithfield Irrigation Secondary Water Pipe Upgrades** - Improve Smithfield Irrigation pressure pipe sizes to avoid having even and odd watering days. Replace 4" diameter pipe lines with larger lines.

**Secondary Water Metering** - Help secondary systems with requirements to send a report to the state by the end of year to outline how they plan to meter all secondary water connections.

## Secondary Water Projects

**Millville and Providence Secondary System** - Build a secondary water system in coordination with Providence Blacksmith Fork Irrigation Company and Spring Creek Irrigation Company with a reservoir in Millville and system to serve Millville and Providence. (Need 4 irrigation companies with 2 cities to participate)

**Wellsville Secondary Water System** - Build a secondary water system to serve Wellsville City

**Small City Secondary Water Feasibility Study** - Do a secondary water feasibility study for secondary in Mendon, Amalga or other cities on the west side off of West Cache Canal.

**East Bench Secondary Water Feasibility Study** - Evaluate possible secondary system to serve areas east of Crockett Avenue Service area

**Secondary Water System Maintenance Plan** - Identify plan for long term maintenance of secondary water systems

## Water Re-use From Treatment Plants

## Irrigation Delivery Projects

**Rebuild/Improve Canal System** - Program to rebuild or improve major canals in Cache County (1,200 ft per year). Could include reducing seepage to create more habitat for wildlife.

**Maintenance Access** - Create maintenance access along major canals in Logan, North Logan Hyde Park, Providence, River Heights

**Canal Metering** - Main canal metering

**Enclose Highline Canal to Summit Creek** - Pipe Highline canal to Summit Creek

**Canal Seepage Study** - Partner with Canal companies to measure flows along major open canals (flow greater than 25 cfs and prioritize segments to be enclosed). Include some evaluation of return flows to rivers.

**Canal Piping** - Pipe all canals to save 60,000 acre feet of water. Laws would need to change to allow use outside of current service areas.

## **Culinary Water Distribution Projects**

**Wellsville-Mendon City Interconnect** - Culinary water pipe between Mendon and Wellsville

**Logan-Mendon and Newton Connection** - 12" culinary water pipe between Logan and Cache Junction, 8" lines to Mendon and Newton (see old plan) cost of taking water across the valley versus the cost treating water on the west side of the valley

**Emergency Interconnect** - Connection between 2 neighboring cities, assume half a mile of 12" pipe. Specific interconnects might be between Millville and Providence, Benson and Amalga, Lewiston and Cornish, Millville and Nibley

## **Public Information Projects**

**City Manager Updates** - Discuss 40-year water rights plan, legislative updates, PacifiCorp updates

**Promote Secondary Water** - Promotion of secondary water systems for new developments with city councils

**Northern Utah Water Conference**

**Water Fair Support** - Education about how water comes to homes from source, through distributions to tap (done at 4th grade level)

## Water Conservation Projects

**Regional Conservation Goal** - State reduction of 17-18%

**Weather Stations** - Install more weather stations to help with smart controllers (south end of valley)

**Local Workshops/Classes** - Help promote outdoor conservation

**Promote Incentives/Rebates** - Smart controller incentives, Can the district help people within the boundaries know about rebates? Put on websites

**Demonstration Garden** - Water conservation demonstration garden (Partner with USU)

**Promote Agricultural Conservation** - Agricultural conservation help producers with new technology with pivots with driplines, buried driplines.

## Water Study Projects

**Quantify Environmental Water Demands** - Study along the Blacksmith Fork to quantify environmental water needs.

**Drought Contingency Plan** - Complete a plan to identify drought mitigation and response actions for the County.

**Mapping of Water Usage Types** - Culinary vs. secondary water usage areas for outdoor uses. Show where secondary water is being used and where culinary water is being used.

**Optimizing Field Drains** - Investigate potential to irrigate using headgates on existing field drains to back water up periodically.

**Irrigation Succession Planning** - Plan for future management of irrigation companies/younger generation not interested as much in doing what is needed.

## **Water Quality Projects**

**Water Quality Monitoring** - Periodically monitor quality of natural channels within District.

**Cutler TMDL projects**

## **Other Projects**

**Construct riparian meadows**

**Beaver Dams** - Construct Beaver Dams on Davenport Creek, work with landowner for access, maybe do a 10 year study Knight trucking and Keller Cattle are the owners

**Irrigation Contact List** - Improve irrigation company contact list and website information