



Board Meeting Minutes

Wednesday September 27, 2023 @6:00 P.M.
102 West Forest Street
Brigham City, UT 84302

In Attendance:

Board Members

David Forsgren, Chairman
Charles Holmgren, Financial Chairman
Lyle Holmgren
Mark Larson
Richard Day
Tim Munns

DJ Bott, Vice-Chairman
Jay Capener
Brodie Calder
Joseph Summers
Boyd Bingham

Staff: General Manager Carl Mackley; Administrative Assistant, Jamie Williams

CHAIRMAN DAVID FORSGREN - WELCOME

Chairman David Forsgren welcomed all in attendance to the work session beginning at 6:00 PM with BRWCD Board of Trustees, BRWCD Engineer, BRWCD Staff, Ukon Water Company and their Engineer regarding proposal made by Ukon Water Company at BRWCD Board meeting held 8/30/2023.

WORK SESSION

Ridley Griggs with Hansen, Allen and Luce gave a presentation on the evaluation of the proposed Hammon's Well project. Griggs discussed topics such as unapproved water applications, water quality, location and cost (see attached presentation slides). The District has considered developing water resources on the west side of the valley in the past, and the most significant research that has been done is on the King Well which is south of the proposed Hammons Well Project, Bear River Water Conservancy District has investigated the King Well from several perspectives. We have sampled water quality and evaluated the costs that it would take to utilize that source. The conclusion of that evaluation, in looking at the King Well, is that on a dollar per acre foot basis it would be more cost effective to extend a pipeline from the Bothwell system rather than develop a new source. The biggest question with a well at this particular location is, "where would the District be able to use it?" It is located miles away from the Districts' current facilities and the District does not have retail customers in the area that it could serve. In order for the District to make use of the water, there would need to be miles of pipeline installed and the expenses would run into the millions of dollars. Board Member Brodie Calder asked if it was not the Districts duty to be a wholesale provider? Griggs agreed that it is, but the District needs to look at the most effective source. General Manager Mackley also informed the Board that the District would not be able to collect impact fees to help fund this project. In Griggs' professional opinion, the Hammons Well project, as proposed, is not beneficial to the District in comparison to other alternatives such as the consideration of an exchange of assets, or construction of additional pipelines in the Bothwell system.

Brett Jones, engineer for Ukon Water Company, talked about the Ukon System and the boundaries it serves. Jones discussed the blending station with the Bear River Water Conservancy District, which blends Ukon's water to dilute the high arsenic content. Jones used presentation slides (attached) to show average growth in the Ukon system and talked of the potential of Ukon running out of water in the future.

CHAIRMAN DAVID FORSGREN - WELCOME

Chairman David Forsgren welcomed all in attendance and called the meeting to order at 7:00 pm.

INVOCATION & PLEDGE OF ALLEGIANCE

Offered by Board Member Mark Larson

DECLARATION OF CONFLICTS OF INTEREST

N/A

ADOPTION OF THE AGENDA

A motion was made by Board Member DJ Bott to approve the agenda, motion was seconded by Board Member Tim Munns; all members voted aye, motion passed.

APPROVAL OF MINUTES

August 30, 2023

Board Member Mark Larson made a motion to approve the minutes for August 30, 2023 Board Meeting, seconded by Board Member DJ Bott; all members voted aye, motion passed.

FINANCIAL CHAIRMAN CHARLES HOLMGREN – FINANCIAL BUSINESS

The financial statements for August 2023 were prepared and provided to the board members. Financial Chairman Charles Holmgren has reviewed the financial statements for the District and recommended the Board's approval. Board Member DJ Bott made a motion to approve the August 2023 financial statements as presented, seconded by Richard Day; all members voted aye, motion passed.

BOARD ACTION ON INVITATION BY UKON WATER COMPANY TO PARTNER ON PROPOSED HAMMONS WELL

Vice-Chairman DJ Bott expressed that he favored the idea of having a water source on that side of the valley and made a motion to continue negotiations with Ukon Water Company regarding the proposed Hammons Well project, seconded by Board Member Tim Munns; all members vote aye, motion passed. Board Member Jay Capener asked representatives of Ukon Water Company what their timeline was, and what their goals and objectives were that the District needed to be aware of. Derek Oyler, Ukon Water, Company President expressed the need to go into more detail regarding water rights and property acquisitions and would like to continue those conversations within a closed session. Oyler said he would be willing to attend a meeting once a month and continue negotiating as things move forward. Oyler currently has a draft of a real estate contract in process that would need to be disclosed to the Board in a closed session. Answering the question regarding time goals, Oyler stated that Ukon is moving forward. Board Member DJ Bott made a motion to amend his original motion to add that the Board form a committee to hold closed sessions to help move the process along, seconded by Tim Munns; all members voted aye, motion passed. General Manager Carl Mackley addressed Chairman Forsgren and asked that the Board identify who would be on the committee. Vice-Chairman DJ Bott made an additional motion that the entire Board be a part of the committee that would meet during closed meetings when scheduled, to discuss negotiations with Ukon Water that meet the requirements of a closed session. General Manager Carl Mackley asked for clarification on the motion as to whether the entire Board is the committee, Vice-Chairman DJ Bott stated that the Board is the committee, motion was seconded by Richard Day; all members voted aye, motion passed.

IMPACT FEES AND FACILITIES PLAN UPDATE AND FINANCIAL EVALUATION REPORT
CODY DEETER (EFG CONSULTING) AND CHRIS SLATER, P.E. (JUB ENGINEERS)

Cody Deeter with EFG Consulting and Chris Slater with JUB Engineering met with the Board to discuss the project to create an analysis of updating the District's impact fees which involved looking at all of the District's infrastructure and growth patterns. The goal is to present information to the Board that will allow them to act upon, in a future meeting, an impact fee resolution to adopt and update the impact fees, setting the maximum amount that the District could charge. Deeter read the definition of an impact fee, which is: A payment of money imposed upon new development activity as a condition of development approval to mitigate the impact of new development on public infrastructure. If there is an impact by adding new growth the District needs to know how much that will cost the District on a per connection basis. Deeter presented slides to show the steps taken to come up with an impact fee for each of the retail systems. General Manager Carl Mackley informed the Board that they would not be discussing Beaver Dam impact fees at this time because the Board has made decisions regarding the Beaver Dam system to not sell any additional connections unless there is an additional source developed for that system. Cody Deeter recommended the Board to address that issue if there becomes pressure for multiple connections, and making a decision at that time. Following is the slide presentation prepared by Cody Deeter with EFG:



Impact Fee Purpose

“Impact fee” means a **payment** of money imposed **upon new development** activity as a condition of development approval to **mitigate the impact of the new development on public infrastructure.**

11-36a-102(8)(a)

- New Home
- New Business
- Not a remodel

Impact Fee Methodology



Demand Analysis Water



System	Existing ERCs (2023)	2033 ERCs	Notes
Beaver Dam	42	56	Based on anticipated 3% annual growth
Bothwell	60	400	Based on anticipated development areas
Collinston	84	113	Based on anticipated 3% annual growth
Harper Ward	105	122	Based on anticipated 1.5% annual growth
South Willard	4	200	Based on anticipated development areas

Level of Service Water



Category	Existing Level of Service					
	Beaver Dam System	Bothwell System (Indoor & Outdoor Use)	Bothwell System (Indoor Use Only)	Collinston System	Harper Ward System	South Willard System
Average Annual Demand (ac-ft/ERC)	0.37	0.88	0.48	1.0	0.73	0.35
Peak Day Demand (gpd/ERC)	661	1,571	837	1,785	1,303	625
Min. Fire Flow/Residual Pressure	20 psi	20 psi	20 psi	20 psi	20 psi	20 psi
Min. Peak Instantaneous Demand Pressure	30 psi	30 psi	30 psi	30 psi	30 psi	30 psi
Min. Peak Day Demand Pressure	40 psi	40 psi	40 psi	40 psi	40 psi	40 psi
Max. Distribution Pipe Flow Velocity	5 ft/s	5 ft/s	5 ft/s	5 ft/s	5 ft/s	5 ft/s
Storage (gal/ERC) + Fire Flow	628	1,264	440	1,474	1,223	440

Excess Capacity Water Supply



Water Supply Excess Capacity

Description	Available Peak Day Demand from BRWCD Sources (gpm)	Maximum ERCs Served	Original Construction Cost	Existing ERCs Served	Future Growth ERCs Served	Cost to Future Growth
Bothwell System						
Water Supply (Newman Well)	1,610	2,655	\$1,250,000	60	2,595	\$1,221,751
South Willard System						
Water Supply (South Willard Well #1 Pump House)	150	346	\$426,243	4	342	\$421,315

Excess Capacity Water Storage



Storage Excess Capacity

Description	Available Storage Capacity (gal)	Maximum ERCs Served	Original Construction Cost	Existing ERCs Served	Future Growth ERCs Served	Cost to Future Growth
Beaver Dam System						
Water Storage Tank	200,000	223	\$528,236	42	181	\$428,748
Bothwell System						
Water Storage Tank	500,000	888	\$500,000	60	828	\$466,216
Collinston System						
Water Storage Tanks	1,000,000	556	\$925,363	84	472	\$785,560
South Willard System						
Water Storage Tank	1,000,000	2,000	\$709,884	4	1,996	\$708,465



Excess Capacity Water Distribution

Water Distribution Excess Capacity						
Description	Available Distribution Line Capacity (gpm)	Maximum ERCs Served	Original Construction Cost	Existing ERCs Served	Future Growth ERCs Served	Cost to Future Growth
Collinston System						
Distribution System	1,000	807	\$2,833,682	84	723	\$2,538,625
Harper Ward System						
Distribution System	700	774	\$872,398	105	669	\$753,988
South Willard System						
Distribution System	1,200	2,765	\$680,047	4	2,761	\$679,063

New Facilities Water

Future Facilities Impact Fee Eligible								
	Estimate Year of Const	Max ERCs Served	Total Project Cost	Funding from Grants	Exis ERCs Served	Cost to Existing	Future Growth ERCs Served	Cost to Future Growth
Bothwell System								
Pipe Segment A (10800 West & 12800 North to I-85)	2024	622	\$1,058,180	\$402,000	-	\$-	622	\$656,180
Pipe Segment B (Tank & 10800 West to 13600 North)	2026	706	\$3,487,615	\$-	-	\$-	706	\$3,487,615
Pipe Segment C (Along I-84 from 12800 North to 1000 North in Tremonton)	2030	1,294	\$3,716,103	\$-	-	\$-	1,294	\$3,716,103
Subtotals for Bothwell		2,622	\$8,261,898	\$402,000		\$-	2,622	\$7,859,898
Collinston System								
Flat Canyon Pump Station and Pipeline	2024	200	\$1,882,255	\$ 637,000	84	\$523,007	116	\$722,248
Collinston Well	2026	210	\$2,581,200	\$1,050,000	-	\$-	210	\$1,531,200
Subtotals for Collinston		410	\$4,463,455	\$1,687,000		\$523,007	326	\$2,253,448
Harper Ward System								
Harper Well	2025	683	\$2,814,560	\$461,061	105	\$360,752	580	\$1,992,727
300,000 Gallon Storage Tank	2025	211	\$1,450,000	\$237,539	105	\$603,357	106	\$609,104
Transmission Line	2025	866	\$618,848	\$101,380	105	\$62,741	761	\$454,726
Subtotals for Harper Ward System			\$4,883,408	\$800,000		\$1,026,850		\$3,056,557
South Willard System								
South Willard Well #2	2025	957	\$1,174,500	\$454,897	-	-	957	\$719,603
Transmission Line	2025	1,805	\$891,021	\$345,103	-	-	1,805	\$545,919
Subtotals for South Willard System			\$2,065,521	\$800,000		\$-		\$1,265,522
Total Improvement Project Costs			\$19,674,282	\$3,689,000		\$1,549,857		\$14,435,425

Impact Fee Water Beaver Dam

Beaver Dam System*

Excess Capacity	Purpose	Total Cost	Total ERCs	Growth ERCs	% to Growth	Growth Costs	Growth /ERC
Storage Tank Excess Capacity							
Water Storage Tank	Storage	\$528,236	223	181	81%	\$428,748	\$2,369
Total Impact Fee							\$2,369

**Beaver Dam impact fee will not be charged at this time but will be considered in the future as development plans are considered.*

Impact Fee Water Bothwell

Bothwell System

Excess Capacity	Purpose	Total Cost	Total ERCs	Growth ERCs	% to Growth	Growth Costs	Growth /ERC
Supply Excess Capacity							
Water Supply (Newman Well)	Supply	\$1,250,000	2,655	2,595	98%	\$1,221,751	\$471
Water Storage Tank	Storage	\$500,000	888	828	93%	\$466,216	\$563
Interest Expense 1993/2008A Bonds		\$360,881	2,655	2,595	98%	\$352,725	\$136
Subtotal Excess Capacity		\$2,110,881				\$2,040,693	\$1,170

Future Facilities	Purpose	Total Impact Fee Eligible Cost	Total ERCs	Growth ERCs	% to Growth	Growth Costs	Growth /ERC
Distribution Future Facilities							
Pipe Segment A (10800 West & 12800 North to I-85)	Distribution	\$656,180	622	622	100%	\$656,180	\$1,055
Pipe Segment B (Tank & 10800 West to 13600 North)	Distribution	\$3,487,615	706	706	100%	\$3,487,615	\$4,940
Pipe Segment C (Along I-84 from 12800 North to 1000 North in Tremonton)	Distribution	\$3,716,103	1,294	1,294	100%	\$3,716,103	\$2,872
Subtotal Future Facilities		\$7,859,898	2,622			\$7,859,898	\$8,867

Total Impact Fee Bothwell System **\$10,037**

Impact Fee Water Collinston

Collinston System

Excess Capacity	Purpose	Total Cost	Total ERCs	Growth ERCs	% to Growth	Growth Costs	Growth/ERC
Distribution Excess Capacity							
Distribution System	Distribution	\$2,833,682	807	723	90%	\$2,538,726	\$3,511
Storage Excess Capacity							
Water Storage Tanks	Storage	\$925,363	556	472	85%	\$785,560	\$1,664
Interest Carry Cost							
2014 Bond	Interest	\$279,810	745	661	89%	\$248,270	\$375
Subtotal Excess Capacity		\$4,038,855				\$3,572,556	\$5,551

Future Facilities	Purpose	Total Impact Fee Eligible Cost	Total ERCs	Growth ERCs	% to Growth	Growth Costs	Growth/ERC
Distribution Future Facilities							
Flat Canyon Pump Station and Pipeline	Distribution	\$1,245,255	200	116	58%	\$722,248	\$6,226
2022 Bond	Interest	\$3,280	200	116	58%	\$1,902	\$16
Supply Future Facilities							
Collinston Well	Supply	\$1,531,200	210	210	100%	\$1,531,200	\$7,291
2022 Bond	Interest	\$64,152	210	210	100%	\$64,152	\$305
Subtotal Future Facilities		\$2,843,886				\$2,319,502	\$13,840

Total Impact Fee Collinston System **\$19,391**

Impact Fee Water Harper Ward

Harper Ward System

Excess Capacity	Purpose	Total Cost	Total ERCs	Growth ERCs	% to Growth	Growth Costs	Growth/ERC
Distribution Excess Capacity							
Distribution System	Distribution	\$872,398	774	669	86%	\$754,049	\$1,127
Interest Carry Cost							
1994/2008 Bonds	Interest	\$90,079	774	669	86%	\$77,859	\$116
Subtotal Excess Capacity		\$962,477				\$831,908	\$1,244

Future Facilities	Purpose	Total Impact Fee Eligible Cost	Total ERCs	Growth ERCs	% to Growth	Growth Costs	Growth/ERC
Distribution Future Facilities							
Transmission Line	Distribution	\$517,468	866	761	88%	\$454,726	\$598
Supply Future Facilities							
Harper Well	Supply	\$2,353,479	685	580	85%	\$1,992,727	\$3,436
2022 Bond	Interest	\$181,566	685	580	85%	\$153,735	\$265
Storage Future Facilities							
500,000 Gallon Storage Tank	Storage	\$1,212,461	211	106	50%	\$609,104	\$5,746
Subtotal Future Facilities		\$4,264,974				\$3,210,292	\$10,045

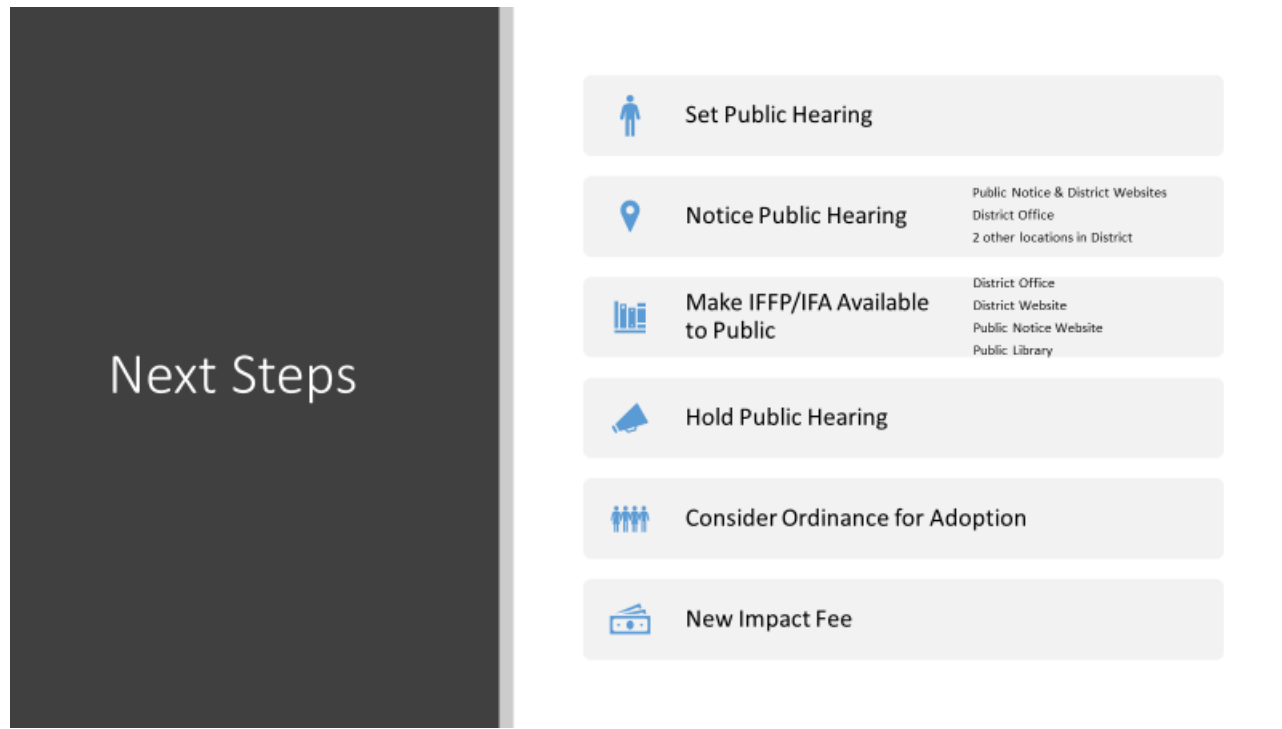
Total Impact Fee Harper Ward System **\$11,288**

Impact Fee Water South Willard

South Willard							
Excess Capacity	Purpose	Total Cost	Total ERCs	Growth ERCs	% to Growth	Growth Costs	Growth/ ERC
Supply Excess Capacity							
Water Supply (South Willard Well #1 Pump House)	Supply	\$426,243	346	342	99%	\$421,315	\$1,232
Distribution Excess Capacity							
Distribution System	Distribution	\$680,047	2,765	2,761	100%	\$679,063	\$246
Storage Excess Capacity							
Water Storage Tank	Storage	\$709,884	2,000	1,996	100%	\$708,464	\$355
Interest Carry Cost							
2008 Bond Interest	Interest	\$458,433	1,898	1,894	100%	\$457,467	\$242
Subtotal Excess Capacity		\$2,274,607				\$2,266,309	\$2,074
Future Facilities							
Future Facilities	Purpose	Total Impact Fee Eligible Cost	Total ERCs	Growth ERCs	% to Growth	Growth Costs	Growth/ ERC
Distribution Future Facilities							
Transmission Line	Distribution	\$545,918	1,805	1,805	100%	\$545,918	\$302
Supply Future Facilities							
South Willard Well #2	Supply	\$719,603	957	957	100%	\$719,603	\$752
2022 Bond	Interest	\$94,063	957	957	100%	\$94,063	\$98
Subtotal Future Facilities		\$1,359,584				\$1,359,584	\$1,153
Total Impact Fee South Willard System							\$3,227

Impact Fee Summary

Impact Fee	Proposed	Current	Change
Bothwell	\$ 10,037	\$ 3,875	159%
Collinston	\$ 19,391	\$ 6,565	195%
Harper Ward	\$ 11,288	\$ 5,380	110%
South Willard	\$ 3,227	\$ 3,446	-6%



PETITION FOR WHOLESALE WATER IN HARPER WARD – KORY WAYMENT

Kory Wayment approached the Board with a follow-up request to provide water to his proposed subdivision on the bench along Hwy 38 approximately 4500 N 1100 W. Wayment had the property rezoned to R-5 and they are looking to develop the property. It has been proposed that Wayment connect on a 10" line with a 2" connection running through a 1.5" meter to a booster station and from the booster station to a holding tank, and gravity feeding to the lots from the tank. It has been discussed having a wholesale connection and Wayment (developer) being responsible for infrastructure and installing and maintaining their system. Wayment has spoken with the Fire Marshall and Wayment is seeking a "will serve" letter from the District so they may be able to approach the county with their plans. Wayment worked with Bill Bigelow with Hansen, Allen and Luce. Bill proposed a 75,000-gallon tank to accommodate for ¼ acre of outdoor watering and fire reserve for 11 homes.

Board Member Boyd Bingham asked why they are proposing to use a 1.5" meter and why they weren't going with a larger meter, Wayment said it looks as though they will be limited to 25 gallons per minute and a 1" meter would handle that quantity. General Manager Carl Mackley said the concern if they are doing their own system and have a full tank the amount of impact that a wholesale connection has on the system needs to be specified in the agreement and also regulated. The District wants the fluctuations to happen at the developer's tank, and not in our pipeline.

Board Member Brodie Calder asked if the development is in the District's service area for retail connections, General Manager Carl Mackley said it was, Calder asked why the District would not take this development on as a retail connection rather than a wholesale connection? Mackley said that because of the location, it is a very problematic system design, and it isn't possible to add other connections on to the system, so it simplified things to require the connection to be wholesale. Calder had a concern that the District would eventually have to step in and take over the system, due to possible problems with management of the system, as this has happened with other small private systems.

Vice-Chairman DJ Bott believes the county passed an ordinance that systems like the proposed Wayment system was to be built to the standards of the nearest municipality. Mackley said that he is confident that Bill Bigelow, who is the engineer that was working with Wayment, would have designed the system to meet the required standards. Mackley has recommended to Wayment to begin talking with the Division of Drinking Water in the event that they (the DDW) have concerns. If a system has 15 year-around connections or supplies water to 25 persons, they are regulated as a public water system for sampling and water quality.

General Manager Carl Mackley asked the Board to make a decision as Kory Wayment has been to the Board multiple times to request water for his development or make a commitment to sell him water and provide him with a will-serve letter for Box Elder County for the development and work out specific details later in the development agreement.

Vice-Chairman DJ Bott made a motion to provide Kory Wayment with a will-serve letter to provide 15.2-acre feet of water for 10 connections, seconded by Board Member Mark Larson; All member voted aye, motion passed.

GENERAL MANAGER'S WRITTEN REPORT – CARL MACKLEY (Given to board prior to meeting).

Financial Study

For the last several months, we have been doing a financial study that evaluates our impact fees, water rates, tax revenue, and other revenue sources, as well as our debt and other expenses. We have now completed that study. We looked at each system individually and created a plan for each one. There was an engineering evaluation done; an impact fee and facilities plan (IFFP). This was completed by JUB Engineers. There was also a financial component, including an impact fee analysis (IFA) generated by Cody Deeter of EFG Consulting. Cody Deeter (EFG Consulting) and Chris Slater (JUB Engineers) will give a presentation at the board meeting regarding the highlights of the study. I am also enclosing with the board packets a copy of the IFFP which was created. We will need to hold a public hearing at our next board meeting, which will be November 15, in order to adopt the IFFP and any other rates or fees that we discuss in conjunction with the presentation given by JUB and EFG and the subsequent discussion which we will hold.

Employees Update

You all know that Jeff Humphery returned to Pineview Water Systems as their new General Manager. I have promoted Chance as the Assistant General Manager. He is super capable and willing to learn and try new things. I will be hiring an Office Assistant to help me with a lot of routine tasks and as a backup to Jamie for some of her duties. Chance and I are also creating a program of advancement for Kylee and Richard to become Senior Water Operators and take more exclusive ownership for the operations of all of the systems. If they cannot rise to that level, then we will have to hire a replacement supervisor for them. However, I am confident that they can rise to that level and also receive an advancement. We are targeting that development for the next several months and for the proposed advancement to take place next May.

County Water Master Plan (CWMP)

I don't have a lot of updates for this yet. We are waiting to hear back from the CIB on October 5 regarding the funding request that we made from them. We will hold a meeting at the county fairgrounds on November 2 to introduce the scope of the project to the significant water suppliers in the county and allow them to provide some feedback before the county puts the project out for procurement.

Collinston Well

We have created a draft agreement to monitor the Pack & Barnard Springs for a year before doing anything else. I hope that this will be a time of greater peace while we follow through on what we said

we would do. After that, we don't have any more obligations and we will find a way to pursue drilling the Collinston Well. The Collinston Well Committee will deliver the agreement to the Spring Users and give them the opportunity to review the agreement, which defines what we will do to monitor, and they agree to grant us permission and authority to do so. There needs to be a limited time that the Spring Users have to sign the agreement. They cannot unduly delay the process, particularly when we have agreed not to attach any of the previous stipulations that might cause them to reject the proposal. It is also very highly recommended that following a signed agreement, that communications between BRWCD and the Spring Users occur through written means where possible and that communication between BRWCD and CWU occur through our respective attorneys.

This item will not appear on the agenda for board meeting this month. We are proceeding in the direction that the board approved back in April and the Collinston Well Committee is acting in their role of negotiating and communicating with the Spring Users. There is nothing to take action on at this time.

Ukon Water Company Proposal

Following last month's presentation by Ukon Water Company (Ukon), I have met with our engineers to discuss with them my concerns and questions. They have reviewed all of the material that they presented to us and have also communicated with Ukon's engineer Brett Jones. They have gathered some additional information, and I have asked them to give a presentation to our combined group at the upcoming working meeting. The board will also have the opportunity to discuss your concerns and ask questions. It is my belief that there is an existing pattern of planning and ownership of assets by the District and by Ukon that can work together to accomplish our individual purposes and not change the trajectory of either water provider. I look forward to explaining this concept at the upcoming board work meeting.

TRUSTEES REPORTS

DJ Bott – No Report

Jay Capener – I provided a draft of an agreement with Pack & Barnard to Kyle Potter late this afternoon. Canal water is dropping fast.

Lyle Holmgren – No report

Brodie Calder – No report

Mark Larson – No report

Joe Summers – No report

Richard Day – No report

Tim Munns - No report

Boyd Bingham – The County Commission had their budget hearings last week and we discussed the ARPA funds that you mentioned, Dave, and I mentioned to them, that you wondered why those ARPA funds hadn't been allocated to the Conservancy District and they had a similar response that I did, that the Conservancy District had been given a substantial amount and that the County had other needs.

Dave Forsgren – No report

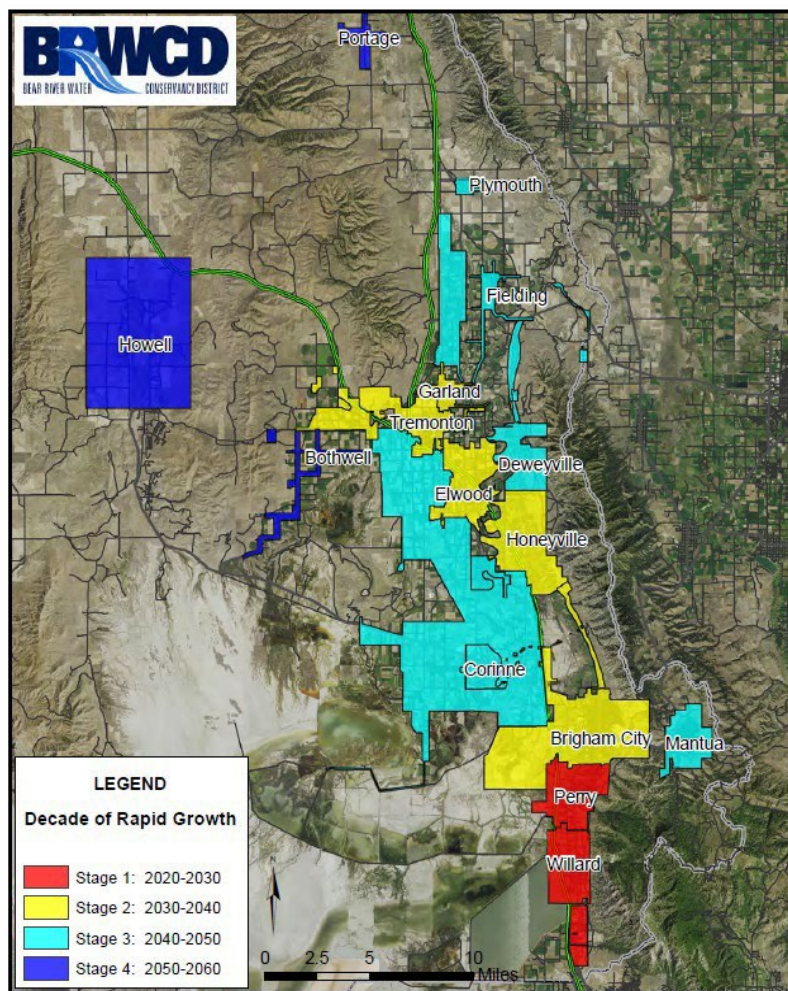
Adjournment

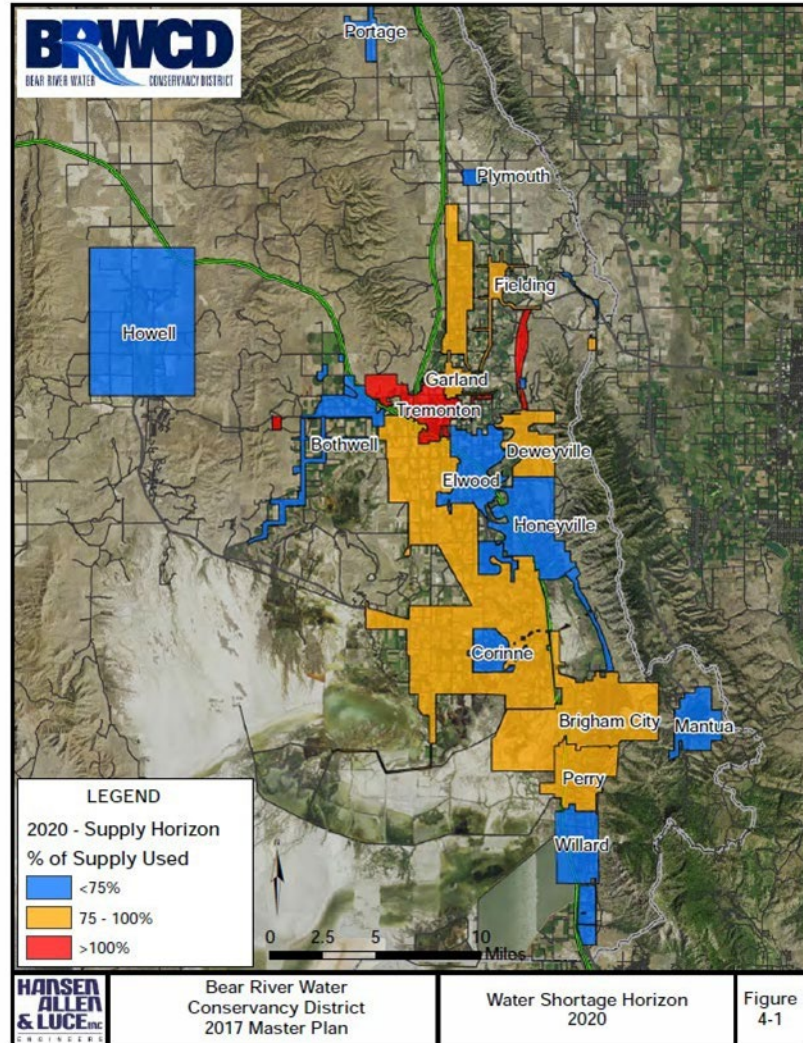
Board Member Tim Munns made a motion to adjourn, seconded by Vice-Chairman DJ Bott; all members voted aye, meeting adjourned at 8:40 PM

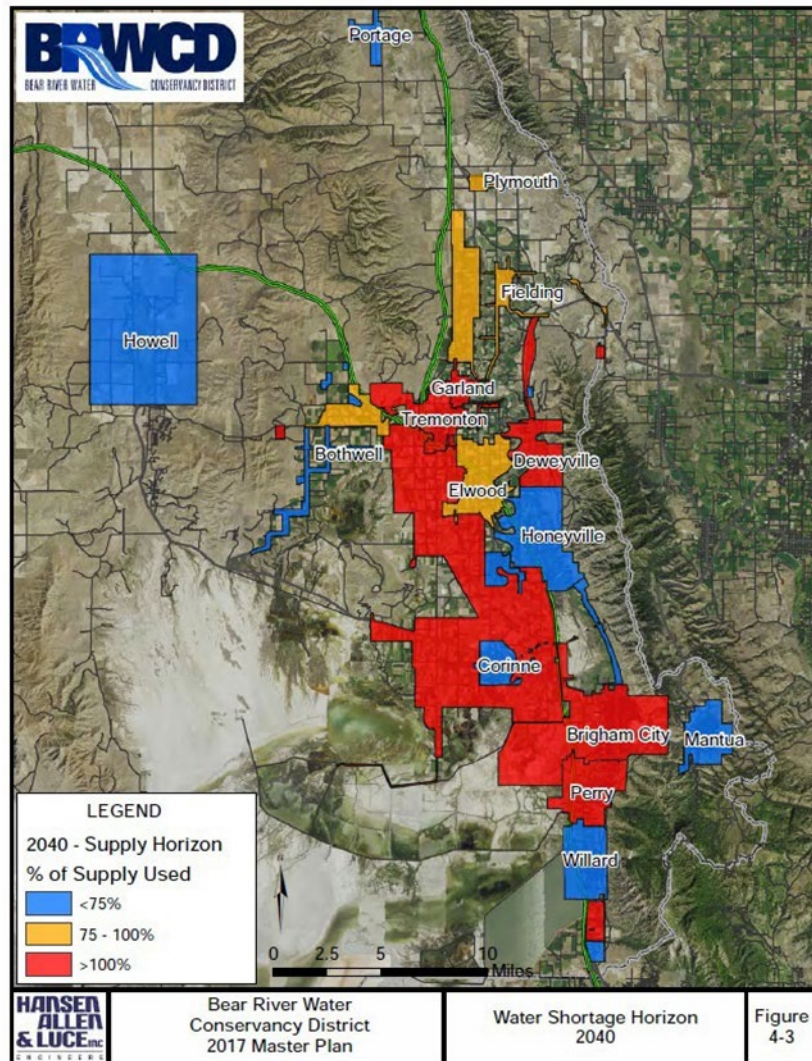
BEAR RIVER WATER CONSERVANCY DISTRICT

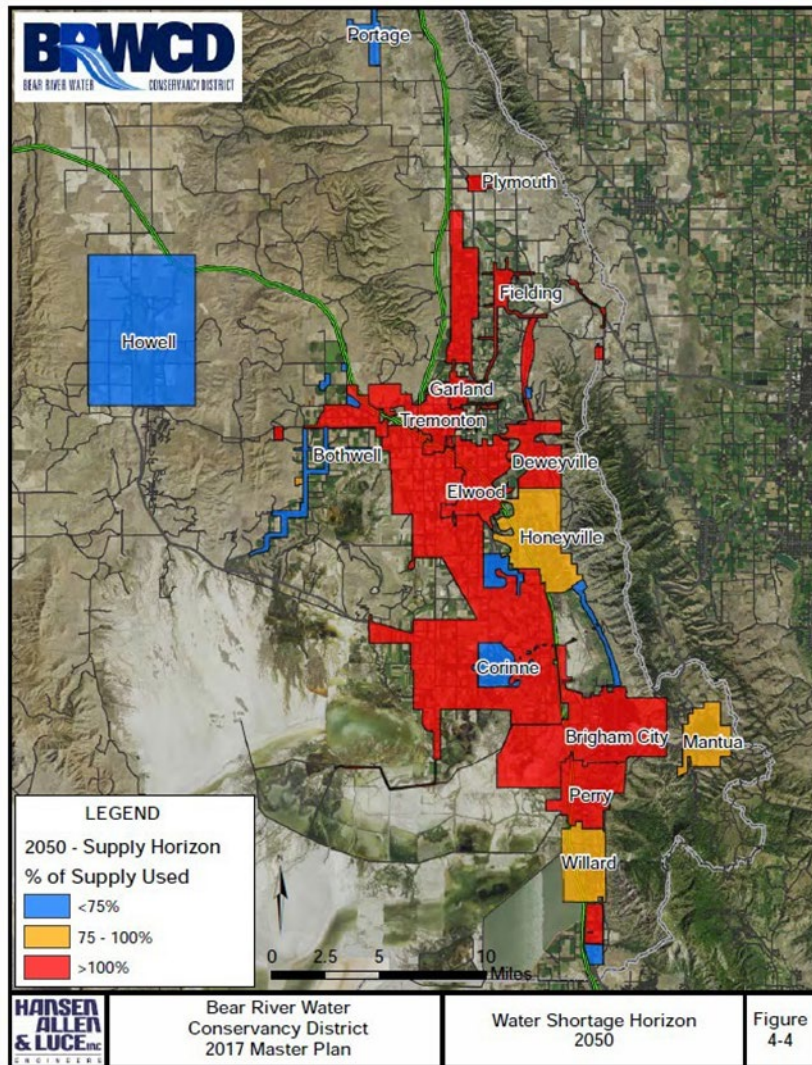
Evaluation of the Proposed Hammons Well Project

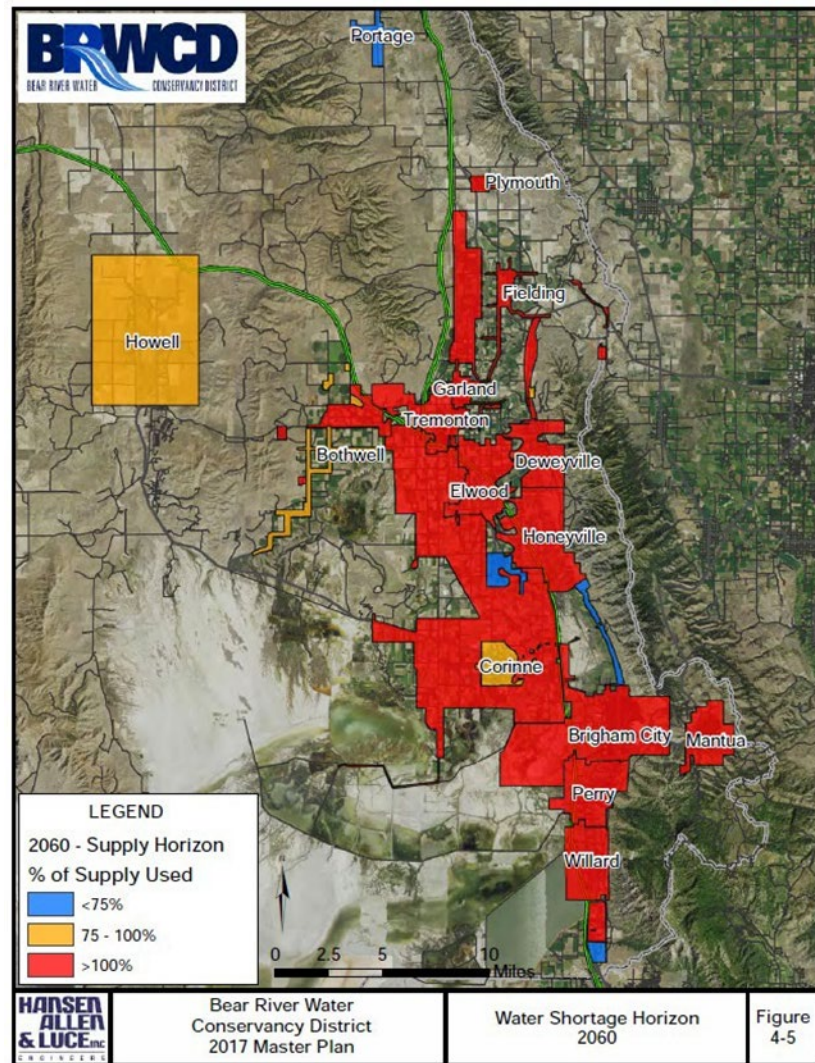
September 27, 2023











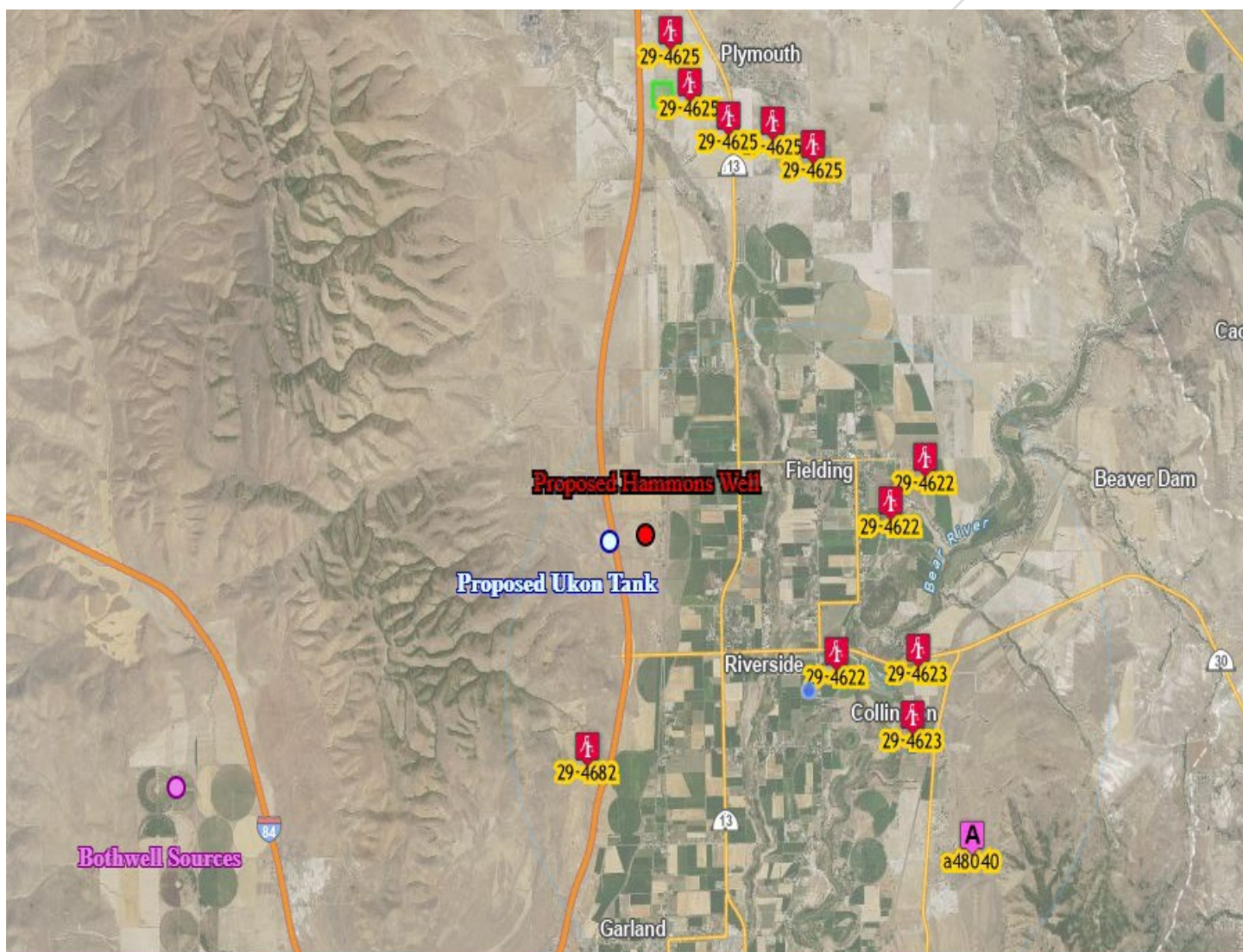


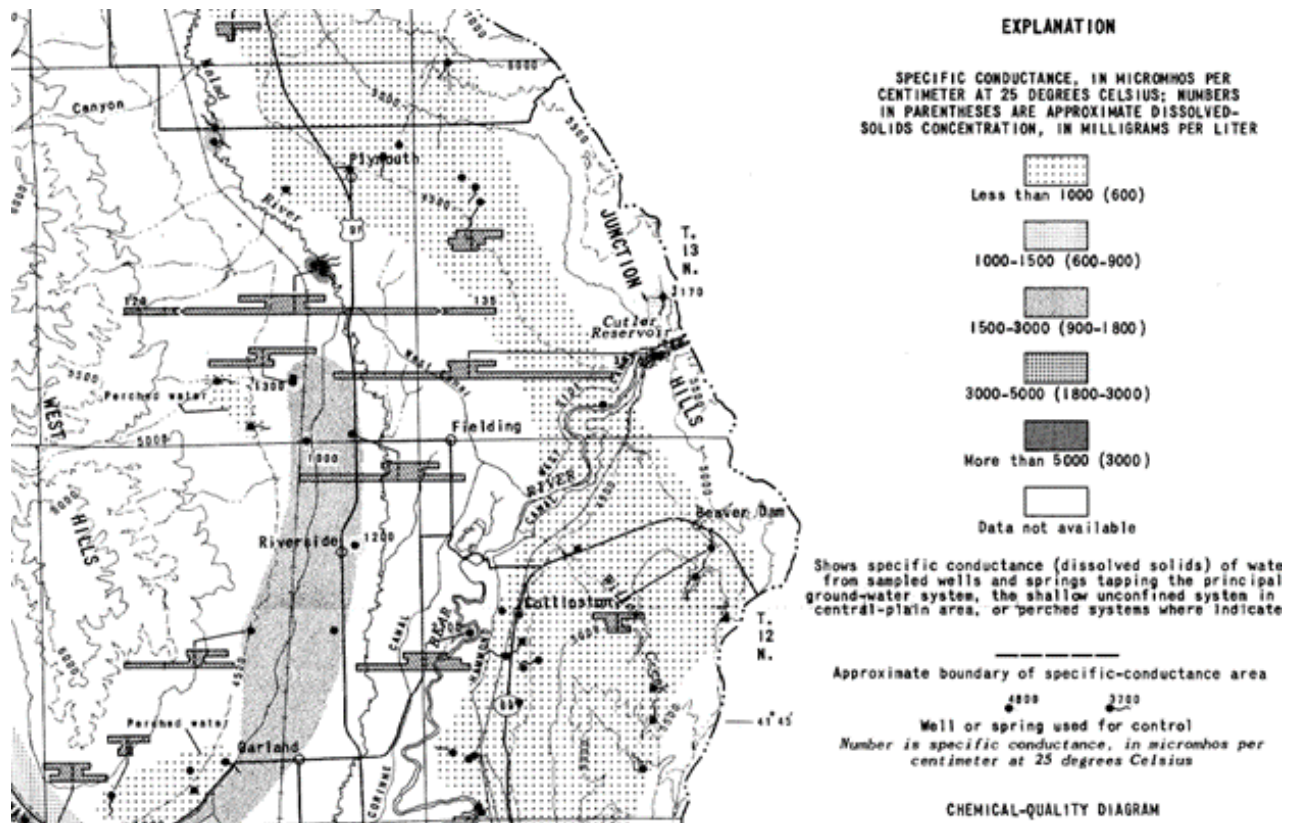
PREVIOUS RESEARCH AND EVALUATION

- King Well has already been evaluated by BRWCD
- Water Quality
- Cost
- The Bothwell Pipeline is more cost-effective option (\$/AF)
- Requires support from all parties that would benefit

WATER RIGHTS

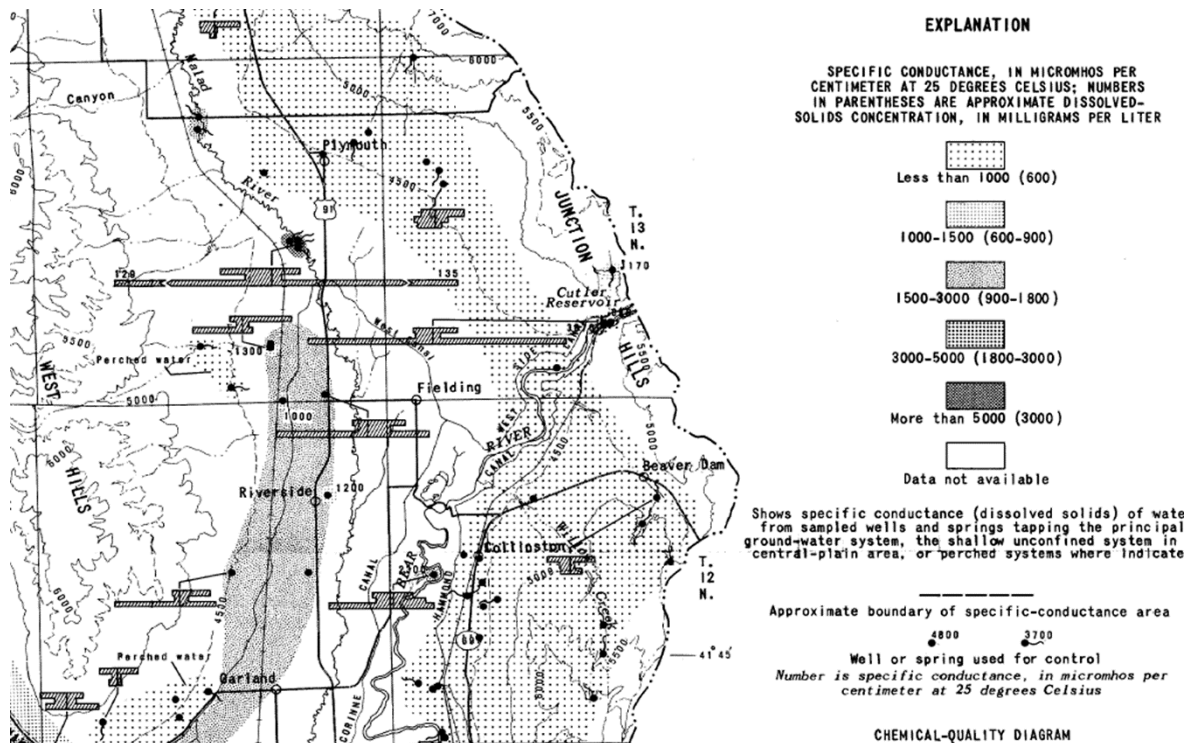
- UKON and BRWCD applications have not been approved
- Change applications required
- Protests likely, mitigation plan is recommended
- Approval uncertain
- Process takes time





WATER QUALITY

- Total Dissolved Solids (TDS) in Hammons Well
- 800 – 1,000 mg/L expected
- USGS Technical Publication No. 44
- Not known with certainty until the well is drilled

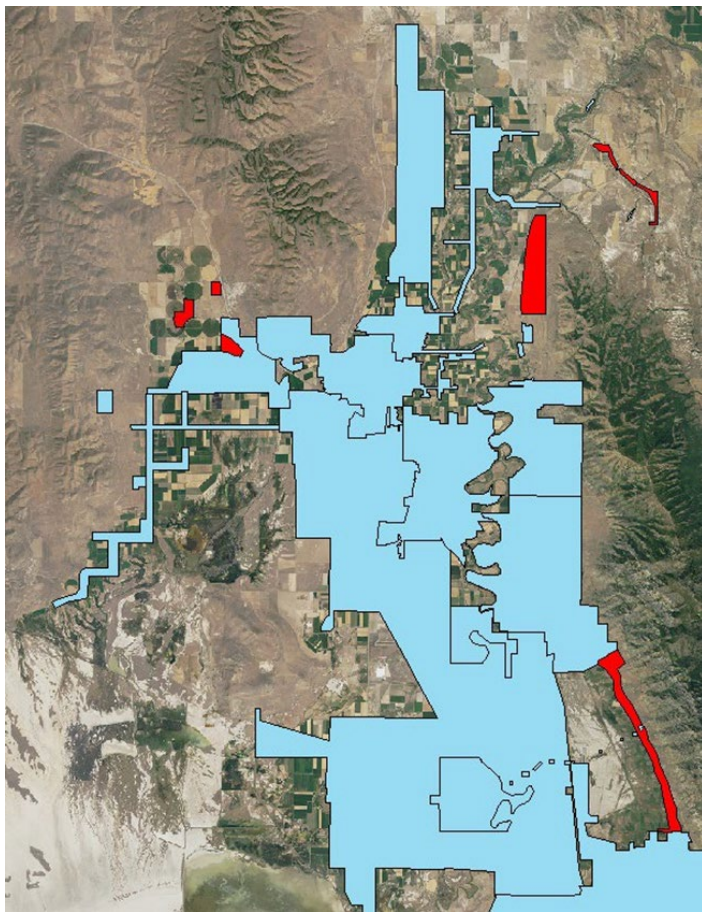
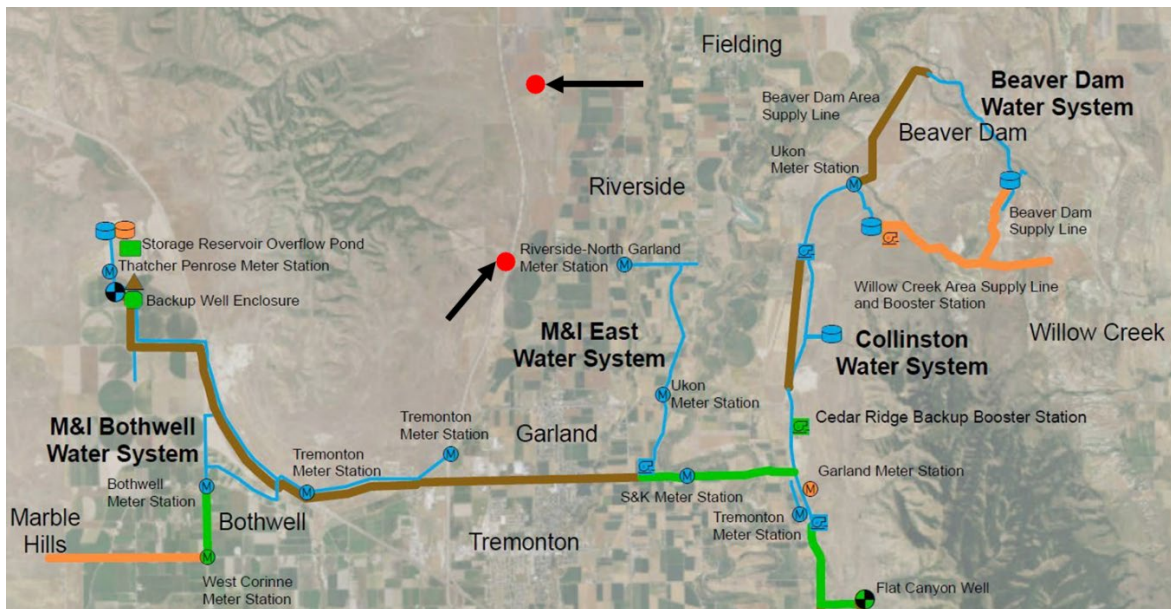


WATER QUALITY OF KING WELL

- Samples taken in 2020
- TDS
- 860 mg/L
- Chlorides
- 300 mg/L
- EPA SMCL is 250 mg/L

WATER QUALITY

- TDS Regulations
- EPA SMCL: 500 mg/L
- Utah MCL: 2,000 mg/L
- Utah rule: If above 1,000 mg/L, the system must demonstrate that there is no better water available
- Customer Impact
- Marginal quality
- Similar to the Bothwell system, but with higher chlorides and sodium



OTHER AREAS?

- No District facilities nearby
- Expensive to convey water elsewhere
- Not an alternative supply for Collinston System
- Should involve regional planning

EXISTING CONTRACT WITH UKON

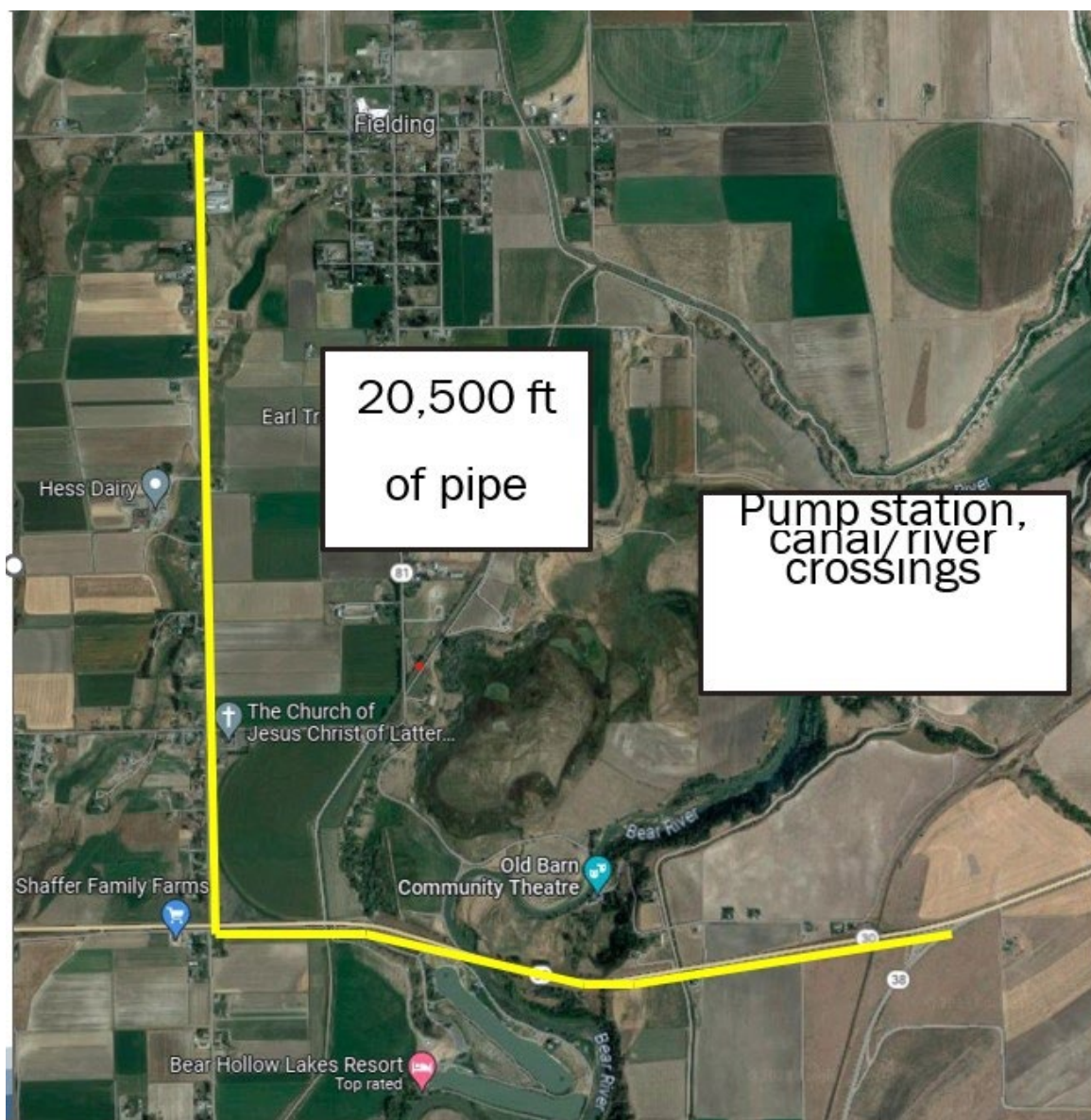
- District built Collinston system in 2015 to serve Ukon, RNG, Collinston
- District bond and contract with Ukon extends through 2035. Contract funds the bond payments.
- Contract does not specify delivery location
- How does Ukon's proposal affect the existing agreement?
- What is Ukon's proposed timing?
- How does Ukon intend to operate their system in the future?

ALTERNATIVES

- As proposed, the Hammons Well project is not beneficial to the District
- Exchange of assets
- Transfer District groundwater rights to Ukon Water Company
- Ukon transfers ownership of spring water rights to the District
- Equivalent amounts of water
- Supply water to Ukon from the Bothwell system

RECOMMENDATIONS

- Collaborate on regional planning
- Pursue approval of respective water rights
- Pursue drilling respective test wells



COLLINSTON SYSTEM

- Pipeline from Fielding to the Collinston System

COST COMPARISON – COLLINSTON SYSTEM

Alternative	Hammons Well	<u>Collinston Well</u>	Honeyville Well
Cost to BRWCD	\$9.0M	\$1.8M	\$6.7M
Ac-ft Produced	250	210	1,000
Cost/ac-ft	\$36,000	\$8,700	\$6,700

