

A G E N D A

UTAH BOARD OF WATER RESOURCES

Department of Natural Resources
Auditorium
1594 W. North Temple
Salt Lake City, Utah

June 23, 2016

10:00 a.m.

1. CALL TO ORDER

2. APPROVAL OF MINUTES - May 12, 2016

3. CHAIR'S REPORT

4. FEASIBILITY REPORT

L575 Beaver City
E378 Benson Irr. Co.
E381 Silver Creek Res. Co.

County

Beaver
Cache
Sanpete

5. LAKE POWELL PIPELINE PROJECT REPORT

6. WATER CONSERVATION UPDATE

7. DIRECTOR'S REPORT

8. ADJOURNMENT

BRIEFING MEETING AGENDA

UTAH BOARD OF WATER RESOURCES

Division of Water Resources
Room 314
1594 W. North Temple
Salt Lake City, Utah

June 23, 2016

9:00 a.m.

- I. WELCOME/CHAIR'S REPORT Chairman Lemmon

- II. DISCUSSION OF PROJECTS

- III. OTHER ITEMS

BOARD OF WATER RESOURCES

REVOLVING CONSTRUCTION FUND

**Funding Status
June 23, 2016**

Funds Available for Projects This FY \$ 12,159,000

Projects Contracted This FY

1 Bear River Canal Co	E377		\$ 659,000
2 Kaysville Irrigation Co (additional funds)	C044	**Grant	301,500
3 New Escalante Irrigation Co (additional funds)	C035	**Grant	88,000
4 North Utah County WCD (Silver Lake Flat)	C048	**Grant	1,481,000
5 Red Creek Irrigation Co (additional funds)	C045	**	170,000
6 Red Creek Irrigation Co (additional funds)	C045	**Grant	1,530,000
7 Red Creek Irrigation Co	E356		493,000
			\$ 4,723,000
Total Funds Contracted			\$ 4,723,000
Funds Balance			\$ 7,436,000

Projects with Funds Committed

1 Daniel Irrigation Co	E370		\$ 240,000
2 Kaysville Irrigation Co (additional funds)	C044	**Grant	166,500
3 Marion Waterworks Co	E322		247,000
4 North Utah County WCD (Tibble Fork)	C052	**Grant	1,512,000
5 Ouray Park Irrigation Co (Cliff Lake)	C047	**Grant	968,000
6 Ouray Park Irrigation Co (Cliff Lake)	C047	**	107,000
7 Red Creek Irrigation Co (additional funds)	C045	**	54,500
8 Red Creek Irrigation Co (additional funds)	C045	**Grant	490,500
9 Rockville Town Ditch Co	E313		145,000
			\$ 3,931,000
Total Funds Committed			\$ 3,931,000
Funds Balance			\$ 3,505,000

Projects Authorized

1 Ephraim Irrigation Co	E361		\$ 497,000
2 Moon Lake Water Users Association	E362		403,000
3 Salem Pond Co	E329		93,000
* 4 Silver Creek Reservoir Co	E381		500,000
			\$ 1,493,000
Total Funds Authorized			\$ 1,493,000
Remaining Funds Available		#	\$ 2,012,000

* To be presented at Board Meeting
** Dam Safety Projects

End of year balance if all listed projects were fully paid

BOARD OF WATER RESOURCES

CITIES WATER LOAN FUND

**Funding Status
June 23, 2016**

Funds Available for Projects This FY \$ 10,203,000

Bonds Closed This FY

1 Weber-Box Elder WCD	E326	\$ 1,700,000	
Total Bonds Closed			\$ 1,700,000
Funds Balance			\$ 8,503,000

Projects with Funds Committed

1 NONE			
Total Funds Committed			\$ -
Funds Balance			\$ 8,503,000

Projects Authorized

1 Duchesne County WCD	E334	\$ 3,000,000	
2 Herriman City	E344	4,930,000	
* 3 Beaver City	L575	315,000	
Total Funds Authorized			\$ 8,245,000
Remaining Funds Available			# \$ 258,000

* To be presented at Board Meeting

End of year balance if all listed projects were fully paid

BOARD OF WATER RESOURCES

June 23, 2016

ADDITIONAL ACTIVE PROJECTS

Sponsor	No.	Fund	Est. Board Cost	Total Cost
1 Sanpete WCD (Narrows Dam)	D377	C&D	\$29,325,000	\$ 34,500,000
2 Kane County WCD	D828	C&D	1,500,000	2,000,000
3 Weber Basin WCD (Secondary, Ph 3-5)	E029R3+	C&D	21,639,000	25,816,000
4 Hooper Irr Co (Press Irr, Ph 3+)	E060R3+	C&D	11,033,000	12,980,000
5 East Juab County WCD	E071	C&D	425,000	500,000
6 Parowan City (Bond Ins Grant)	E121	C&D	34,000	2,034,000
7 Fremont Irr Co	E131	C&D	1,500,000	2,000,000
8 Fountain Green Irr Co (Flow Augment)	E186	RCF	75,000	100,000
9 Corinne City	E216	C&D	80,000	100,000
10 Weber Basin WCD	E312	C&D	85,000,000	100,000,000
11 South Willard Water Co	E317	C&D	1,700,000	2,000,000
12 Ferron Canal & Res Co	E320	C&D	2,720,000	3,200,000
13 Fountain Green Co-op Well	E328	RCF	255,000	300,000
14 Co-op Farm Irrigation Co	E340	RCF	159,000	187,000
15 La Sal Irrigation Co	E354	C&D	1,530,000	1,800,000
16 New Fayette Irrigation Co	E360	C&D	850,000	1,000,000
17 Wellsville-Mendon Conservation District	E364	C&D	680,000	800,000
18 Washington County Flood Control Authority	C049	RCF	970,000	3,077,000
19 Washington County Flood Control Authority	C050	RCF	582,000	1,847,000
20 Washington County Flood Control Authority	C051	RCF	473,000	1,500,000
21 Highline Canal Co	E372	C&D	3,087,000	13,942,000
22 Ashley Upper Irr Co	E373	C&D	5,255,000	13,942,000
23 Mosby Irr Co	E374	RCF	331,000	4,379,000
24 East Wanship Irr Co	E379	RCF	645,000	950,000
25 Blanding Irr Co	E380	RCF	374,000	440,000
26 Silver Creek Reservoir Co	E381	RCF	500,000	1,090,000
27 Spanish Fork South Irr Co	E382	RCF	885,000	1,185,000
28 O.T. Hicken Ditch Co	E383	RCF	430,000	990,000
29 Scipio Irr Co	E384	C&D	1,660,000	2,950,000
30 Woodruff Irr Co	E385	C&D	5,000,000	6,885,000
* 31 North Elwood Ditch Co	E386	RCF	170,000	200,000
* 32 West Warren and Warren Water Imp. Dist.	E387	C&D	<u>2,975,000</u>	<u>3,500,000</u>
Subtotal			\$181,842,000	\$ 246,194,000
* New Application				

INACTIVE PROJECTS

Long Term Large Water Conservation Projects

1 Wayne County WCD	D494
2 Cedar City Valley Water Users	D584
3 Bear River WCD	D738
4 Central Utah WCD (Prepay FY98,99,00)	D960
5 Woodruff Irr Co (Woodruff Cr Dam Enlargement)	E059

BOARD OF WATER RESOURCES

Feasibility Report

Cities Water Loan Fund

Appl. No.: **L-575**
Received: 5/26/16

To be Presented at the June 23, 2016 Board Meeting

SPONSOR: **BEAVER CITY**

Mayor: Craig Wright

LOCATION: The proposed project is located in Beaver City in Beaver County.

EXISTING CONDITIONS & PROBLEMS: Beaver City supplies culinary water to 1,544 connections and secondary water to 1,011 homes. The culinary water is obtained from wells and thirteen springs, while the secondary lawn and garden water is supplied by the Beaver River from the Mammoth Canal. The Mammoth Canal carries 100 cfs and its only gate is located about two miles above the sponsor's diversion, taking about three hours to drain after the gate is closed.

The sponsor's lawn and garden system begins at a 15 acre-foot head pond on a hillside above the city. Water is diverted into the pond through a structure, owned by the sponsor, from the Mammoth Canal, which is owned by a private irrigation company. The diversion structure is 50 years old and the concrete is deteriorated and has developed leaks. The sponsor has made several temporary patches but the structure needs to be replaced. Additionally, overflow from the Mammoth Canal has created a gorge downslope of the diversion structure and head pond, which is growing bigger. If either the gorge collapses or the diversion structure fails, the Mammoth Canal and head pond would be in danger of failing. If that happened, several houses, a trailer park, a golf course, and a hydropower plant would be flooded and possibly destroyed.

PROPOSED
PROJECT:

The sponsor is requesting financial assistance from the board to replace its diversion structure with an improved diversion system, a sluicing structure, and improvements to stabilize and fill in the gorge from further erosion damage. The sponsor-owned hydropower plant's penstock will also be incorporated into the new system.

Jones & DeMille Engineering will provide design and construction engineering services.

The project fits in Prioritization Category 1 (projects which involve public health problems, safety problems, or emergencies).

COST ESTIMATE:

The following cost estimate is based on the engineer's preliminary design and has been reviewed by staff:

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Amount</u>
1.	Mobilization	LS	\$13,000	\$ 13,000
2.	Utility Excavation	LS	1,000	1,000
3.	63" Overflow Pipe	140 LF	350	49,000
4.	36" Penstock Pipe	320 LF	200	64,000
5.	24" Outlet Pipe	140 LF	80	11,200
6.	3-ft Parshall Flume	LS	6,000	6,000
7.	Outlet Structure	LS	8,000	8,000
8.	Overflow Structure	LS	8,000	8,000
9.	Riprap Screening	100 CY	12	1,200
10.	Riprap Mining	300 CY	30	9,000
11.	Riprap Placement	410 CY	20	8,200
12.	Bank Reshaping	600 CY	10	6,000
13.	Sluice Structure	LS	40,000	40,000
14.	Pipe Relocation	2 EA	800	1,600
15.	Outlet Headwall	LS	5,000	5,000
16.	Fencing	300 LF	15.33	4,600
17.	16-ft Gate	LS	1,000	1,000
18.	Pond Drain Valve & Pipe	LS	8,000	8,000
19.	Misc. Demolition	LS	8,000	8,000
20.	Geotechnical Studies	LS	5,000	5,000
Construction Cost				\$257,800
Contingencies				25,800
ROW Acquisition & Permitting				20,000

Legal and Administrative	20,400
Design and Construction Engineering	<u>46,000</u>
TOTAL	\$370,000

COST SHARING
& REPAYMENT:

The recommended cost sharing and repayment are:

<u>Agency</u>	<u>Cost Sharing</u>	<u>% of Total</u>
Board of Water Resources	\$315,000	85%
Sponsor	<u>55,000</u>	<u>15</u>
TOTAL	\$370,000	100%

The sponsor wishes to repay the board's assistance in 15 years. If the board authorizes the project, it is suggested it be purchased at 0% interest with annual payments of approximately \$23,000 (includes reserves).

ECONOMIC
FEASIBILITY:

As the sponsor will receive no direct economic benefit from the project, the benefit/cost ratio is assumed to be 1.0.

FINANCIAL
FEASIBILITY:

Based on the board's water service affordability guideline, Beaver residents could pay up to \$42.88 monthly for all water. The cost of water with the proposed project is:

	<u>Annual Cost</u>	<u>Cost/Conn/Mo</u>
Culinary Water	\$681,089	\$36.76
Secondary Water	78,858	6.50
Proposed BWR Loan	<u>23,000</u>	<u>1.90</u>
TOTAL	\$782,947	\$45.16

The cost per connection per month for culinary water (\$36.76) and secondary water (\$6.50) is \$43.26, which exceeds the board's water service affordability guideline of \$42.88 for this area. Staff therefore recommends 0% interest on the repayment of the proposed project.

Current water rates are:

Culinary Water:	
Base Rate	\$19.20/month
First 10,000 gallons	\$13.00
Next 27,000 gallons	\$.40/1,000 gallons
Next 27,000 gallons	\$.79/1,000 gallons

Next 27,000 gallons \$1.19/1,000 gallons
 All over 91,001 gallons \$1.58/1,000 gallons
 Secondary (Lawn & Garden) Water:
 Base Rate \$6.50/month (\$78/year)

BENEFITS: No water savings or financial benefits are expected from the project. The proposed improvements will make the canal and head pond safer from potential failure.

PROJECT SPONSOR: Beaver City has received funding from the board previously for three separate projects. In 1976 the sponsor received \$340,000 to construct the existing million gallon tank and install transmission pipelines. In 1990 it received \$975,000 to construct a gravity pressurized secondary irrigation system within city limits; those loans have both been repaid.

In 1996 the sponsor received \$400,000 as part of an interest rate buydown for culinary water improvements consisting of constructing two water tanks, two miles of transmission pipeline to the new tanks, drilling and equipping a well, and installing a pressure regulating station. Two payments remain on the loan of \$91,000 and \$94,000.

WATER RIGHTS & SUPPLY: The sponsor has rights to 13 springs, five wells, and flow rights on the Beaver River. The springs are in Baker Canyon six miles east of the city and supply about 290 gpm.

Water rights applicable to the project are all from the Beaver River, as follows:

<u>Water Right Number</u>	<u>Flow (cfs)</u>
77-1655	25.7
77-191	1.03
77-196	15.17
77-33	23.35
77-4	200 ac-ft

EASEMENTS: Some easement issues may be encountered with Rocky Mountain Power and the private irrigation company, depending on the location of the sluicing structure, but no problems are foreseen.

ENVIRONMENTAL: The proposed project is not expected to have any detrimental effects on the environment beyond the usual dust and noise of the construction phase.

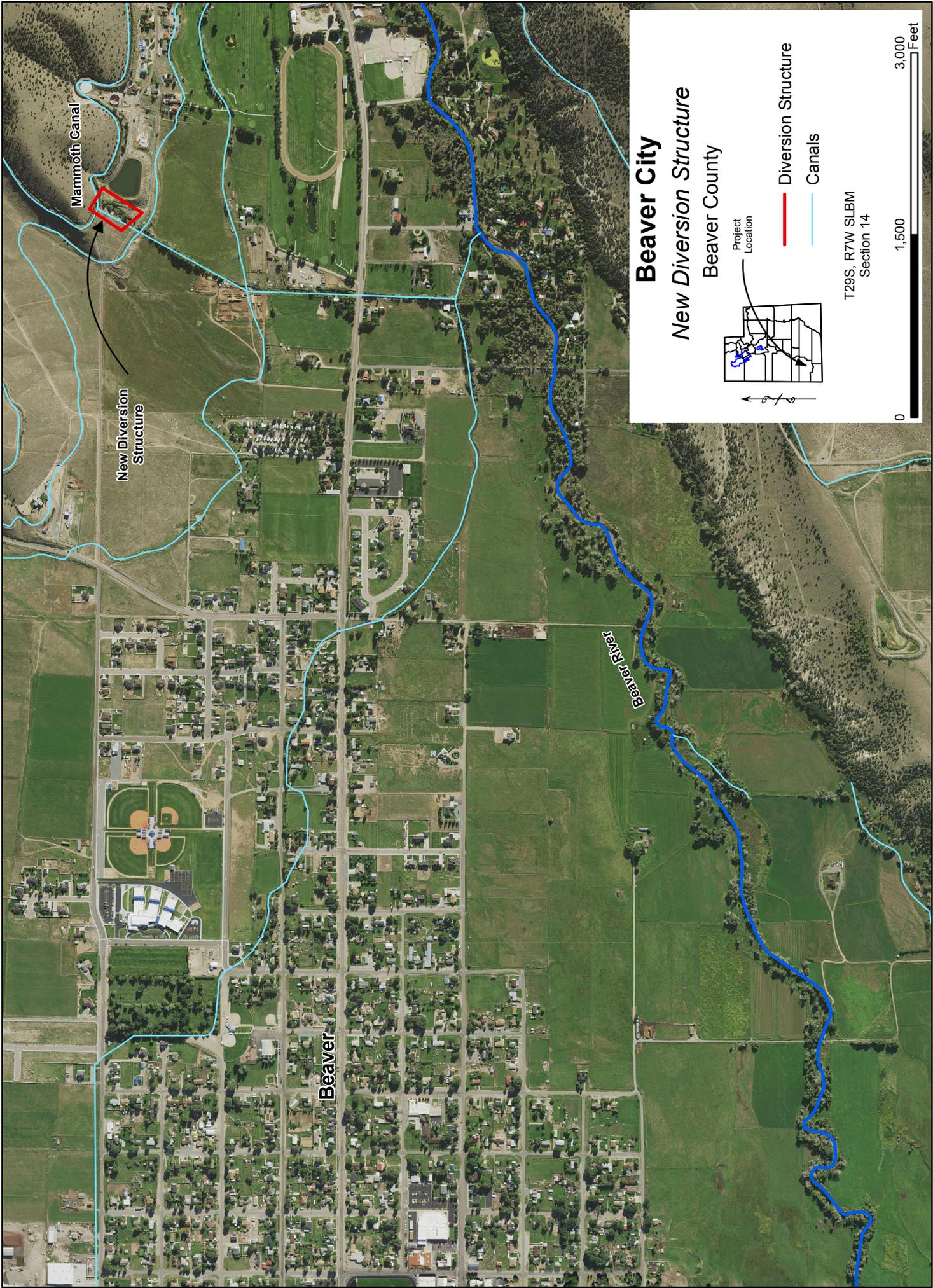
WATER CONSERVATION: The sponsor is current with its Water Management and Conservation Plan and has an ordinance in place restricting outdoor watering between the hours of 10:00 a.m. and 6:00 p.m.

SPONSOR'S RESPONSIBILITIES: The sponsor will be required to make all arrangements to sell the board a non-voted revenue bond, as well as verify it has adequate water rights and rights-of-way to construct the project. If the project is authorized, a list of requirements and procedures necessary to close the bond will be furnished to the sponsor.

PROJECT CONTACT PEOPLE: Mayor: Craig Wright
Box 271
Beaver, UT 84713
Phone: 435-438-2451

City Manager: Jason Brown
Box 271
Beaver, UT 84713
Phone: 435-421-1008

Engineer: Darin Robinson
Jones & DeMille Engineering
1535 South 100 West
Richfield, UT 84701
Phone: 435-896-8266



Mammoth Canal

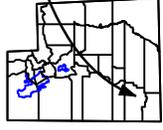
New Diversion Structure

Beaver

Beaver River

Beaver City New Diversion Structure

Beaver County



Project Location

— Diversion Structure

— Canals

T29S, R7W SLBM
Section 14



BOARD OF WATER RESOURCES

Feasibility Report

Conservation and Development Fund

Appl. No.: **E-378**
Received: 1/6/16
Approved: 2/11/16

To be Presented at the June 23, 2016 Board Meeting

SPONSOR: ***BENSON IRRIGATION COMPANY***

President: Rick Reese

LOCATION: The proposed project is located in and around the unincorporated community of Benson in Cache County.

EXISTING CONDITIONS & PROBLEMS: The Benson Irrigation Company delivers water from the Logan River, private wells, and occasionally from Logan City wells to about 50 shareholders irrigating 2,000 acres. About 1,200 acres of alfalfa and corn are sprinkle-irrigated and 800 acres of pasture hay and grasses are flood-irrigated. About nine miles of the system are earthen canals and about 30% of the sponsor's canal water is lost due to seepage and evaporation.

PROPOSED PROJECT: The sponsor is requesting financial assistance from the board to install about nine miles of pipeline, a central pumping station, and appurtenances. Franson Civil Engineers is providing design and construction engineering services.

The project fits in Prioritization Category 3 (agricultural project that will provide significant economic benefit to the area).

COST ESTIMATE: The following cost estimate was prepared by the engineer and has been reviewed by staff:

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u> <u>Price</u>	<u>Amount</u>
1.	Mobilization	LS	\$107,000	\$ 107,000
2.	Surveying	LS	10,000	10,000
3.	Site Preparation	LS	7,000	7,000
4.	PIP Piping			
	a. 27-inch	3,000 LF	45	135,000
	b. 21-inch	7,000 LF	40	280,000
	c. 18-inch	21,200 LF	30	636,000
	d. 15-inch	2,500 LF	25	62,500
	e. 12-inch	13,800 LF	15	207,000
5.	Pump Station	LS	250,000	250,000
6.	Connections/Meters	40 EA	6,250	250,000
7.	3-inch Air Valves	20 EA	3,500	70,000
8.	Install Drains	4 EA	5,000	20,000
9.	Paved Road Crossing	5 EA	15,000	75,000
10.	Butterfly Valves	5 EA	6,500	<u>32,500</u>
	Construction Cost			\$2,142,000
	Contingencies			214,200
	Environmental Assessment			50,000
	Legal and Administrative			11,800
	Design and Construction Engineering			<u>257,000</u>
	TOTAL			\$2,675,000

COST SHARING
& REPAYMENT:

The recommended cost sharing and repayment are:

<u>Agency</u>	<u>Cost Sharing</u>	<u>% of Total</u>
Board of Water Resources	\$1,424,000	53.2%
WaterSMART Grant	1,000,000	37.4
Sponsor	<u>251,000</u>	<u>9.4</u>
TOTAL	\$2,675,000	100%

If the board authorizes the project, it is suggested the board provide 53.2% of the project cost up to \$1,424,000, with the project to be purchased at 1% interest over approximately 13 years with annual payments of \$122,700 for the first 12 years and the balance being paid the final year.

ECONOMIC
FEASIBILITY:

Project benefits occur primarily as additional net income to local farmers from water previously lost to seepage becoming available to crops. In addition, the sponsor estimates some pasture land will be

converted to the production of corn silage and some cropland currently flood-irrigated will be sprinkled, improving on-farm water efficiency. These changes are estimated to increase yearly net farm income by \$221,600. The cost to pump company and private wells will be reduced by \$9,100 annually. When all benefits and costs are discounted to present value using a discount rate of 4.9% over the project life of 50 years, the benefit to cost ratio is 1.23.

FINANCIAL
FEASIBILITY:

It is estimated that construction of the project should save about 2,420 acre-feet currently lost to seepage. This water applied to increased crop production would increase net farm income by approximately \$221,600. Additionally, the electrical cost to pump water will be reduced by approximately \$9,100, yielding a total net benefit of \$230,700 from project construction. As the board's cost share is 53.2%, that percentage of benefits could be used as repayment for board assistance, amounting to approximately \$122,700 available for repayment.

BENEFITS:

The project will reduce seepage and leakage losses by as much as 2,420 acre-feet. It will also reduce pumping costs significantly.

PROJECT
SPONSOR:

The Benson Irrigation Company was registered with the state Department of Commerce in 1903 and is currently in good standing. The sponsor had one previous project with the board in 1990 to concrete-line its North Ditch; that project is paid off.

WATER RIGHTS
& SUPPLY:

The sponsor has the following water rights related to the project:

<u>Water Right</u>	<u>Source</u>	<u>Flow (cfs)</u>
25-2698	Well	0.067
25-2704	Well	0.029
25-2705	Well	0.019
25-2706	Well	0.070
25-2707	Well	0.050
25-2708	Well	0.063
25-2709	Well	0.034
25-5938	Logan River	16.00
25-11110	Logan River	440 ac-ft

EASEMENTS: Some new easements and/or rights-of-way will be required from private landowners but the sponsor anticipates no problems.

ENVIRONMENTAL: The proposed project should have a beneficial effect on the environment as better quality water is returned to the Bear River because weed and moss killer will no longer be used in the ditch. There may also be less water diverted from the Logan River based on improved efficiency.

WATER CONSERVATION: The project will conserve as much as 2,420 acre-feet currently lost to seepage and leaks.

SPONSOR'S RESPONSIBILITIES: If the board authorizes the proposed project, the sponsor must do the following before construction can begin:

1. Obtain all easements, rights-of-way, and permits required to construct, operate, and maintain the project.
2. Pass a resolution by the appropriate (as defined in the company's Articles of Incorporation and Bylaws) majority of company stock authorizing its officers to do the following:
 - a. Assign properties, easements, and water rights required for the project to the Board of Water Resources.
 - b. Enter into a contract with the Board of Water Resources for construction of the project and subsequent purchase from the board.
3. Have an attorney give the Board of Water Resources a written legal opinion that:
 - a. The company is legally incorporated for at least the term of the purchase contract and is in good standing with the state Department of Commerce.
 - b. The company has legally passed the above resolution in accordance with the requirements of state law and the company's Articles of Incorporation and Bylaws.
 - c. The company has obtained all permits required for the project.

d. The company owns all easements and rights-of-way for the project, as well as the land on which the project is located, and that title to these easements, rights-of-way, and the project itself can be legally transferred to the board.

e. The company's water rights applicable to the project are unencumbered and legally transferable to the Board of Water Resources, and that they cover the land to be irrigated by the project.

f. The company is in compliance with Section 73-10-33, Section 10-9a-211, and Section 17-27a-211 of the Utah Code.

4. Obtain approval of final plans and specifications from the Division of Water Resources.

5. Update its water management and conservation plan for its service area, and obtain approval of it from the Division of Water Resources.

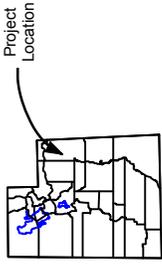
6. Provide written justification satisfactory to the board as to why the sponsor was unable to adopt a Water Conveyance Facilities Management Plan during the time period provided in accordance with Section 73-10-33 of the Utah Code (if the sponsor owns or operates a water conveyance facility that has a potential risk location and has not adopted a management plan as required).

7. Obtain letters from all outside financing agencies establishing their commitment of funds to the project.

PROJECT CONTACT PEOPLE:	President:	Rick Reese 4043 North 2400 West Benson, UT 84335 Phone: 435-757-8745
	Secretary:	Teresa Maughan 3365 North 2400 West Benson, UT 84335 Phone: 435-752-3292
	Engineer:	Eric Franson Franson Civil Engineers 1276 South 820 East, Ste 100 American Fork, UT 84003 Phone: 435-756-0309

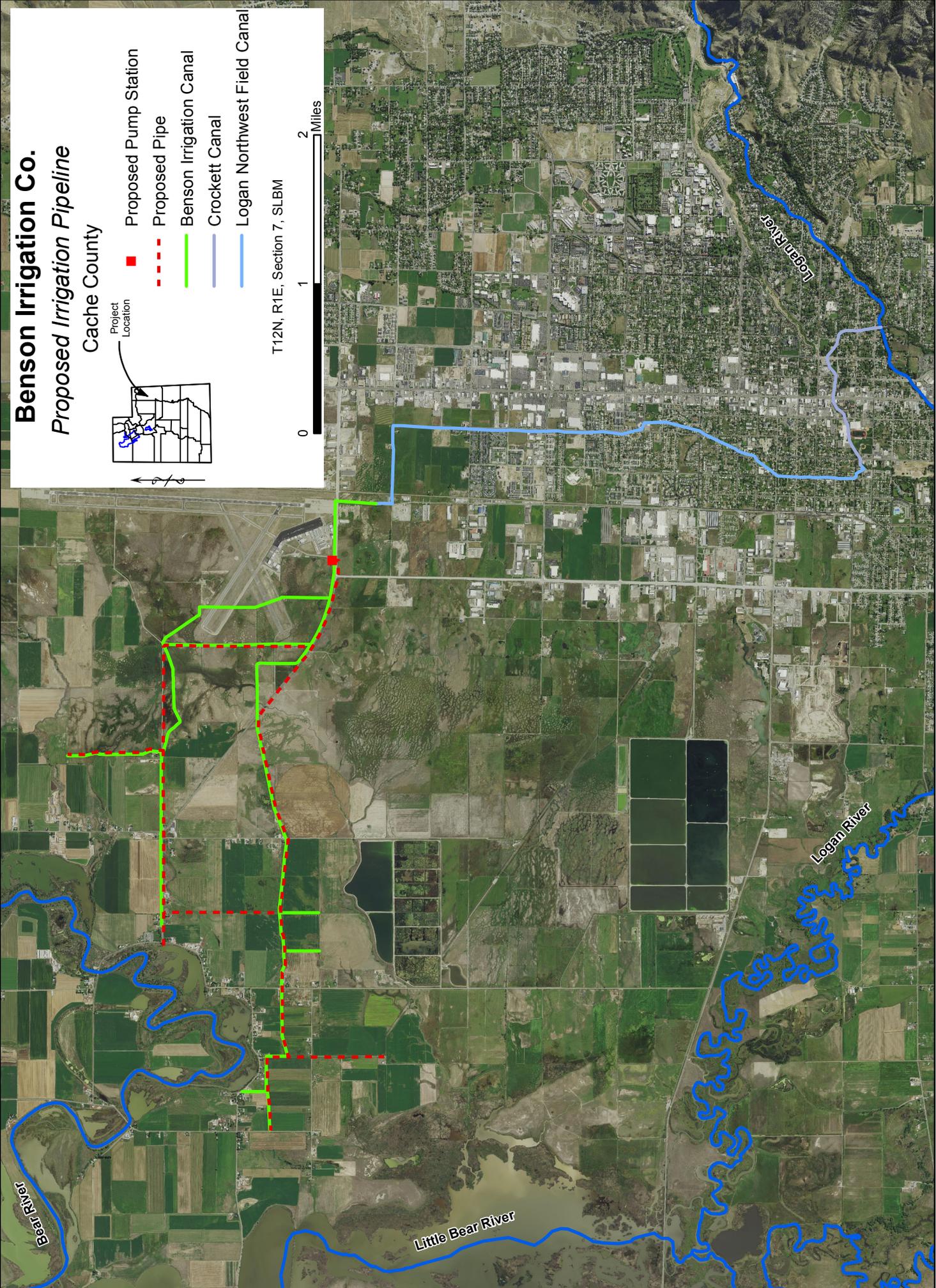
Benson Irrigation Co. Proposed Irrigation Pipeline

Cache County



- Proposed Pump Station
- Proposed Pipe
- Benson Irrigation Canal
- Crockett Canal
- Logan Northwest Field Canal

T12N, R1E, Section 7, SLBM



BOARD OF WATER RESOURCES

Feasibility Report

Revolving Construction Fund

Appl. No.: **E-381**
Received: 2/11/16
Approved: 3/16/16

To be presented at the June 23, 2016 Board Meeting

SPONSOR: **SILVER CREEK RESERVOIR COMPANY**

President: Thayne Atkinson

LOCATION: The proposed project is located approximately three miles southeast of Moroni in Sanpete County.

EXISTING
CONDITIONS
& PROBLEMS:

Silver Creek Reservoir Company delivers irrigation water to 17 shareholders to irrigate 650 acres of alfalfa and grass hay via the Silver Creek Canal. The sponsor diverts water from Silver Creek into Wales Reservoir from October 15 to April 1 and the water is used from April 1 to October 15. The sponsor has a water right to store and use 1,480 acre-feet annually and a water right for one cubic foot per second of stock water in the winter.

Silver Creek Canal is a seven mile, unlined canal that begins at the base of Wales Reservoir. The first mile of the canal was lined with concrete in the 1950s. Currently the concrete lining is deteriorated. The canal experiences a water loss of 40% through the first three miles, which was estimated using weirs that measure water released and delivered through the system.

PROPOSED
PROJECT:

The sponsor is requesting financial assistance from the Board to construct a three-mile, 30-inch HDPE pipeline adjacent to the existing, unlined Silver Creek Canal. The canal will remain in operation for use by the Silver Creek Irrigation Company (not the sponsor). The pipeline would begin at the base of Wales Reservoir where a new inlet structure and flow

metering device would be constructed. The project will conserve about 600 acre-feet annually that is currently lost through seepage. Franson Civil Engineers will provide design and construction engineering services.

COST ESTIMATE: The following cost estimate is based on the engineer's preliminary design and has been reviewed by staff:

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Price</u>	<u>Amount</u>
1.	Mobilization	LS		\$60,000	\$ 60,000
2.	30-inch ADS Pipe	15,500	LF	40	620,000
3.	Connect to Inlet Pipe	LS		5,000	5,000
4.	Terminal Structure	LS		9,000	9,000
5.	Air-Vent	5	EA	4,000	20,000
6.	Turnout w/Meter	8	EA	9,500	76,000
7.	Slough Fill	LS		30,000	<u>30,000</u>
Construction Cost					\$ 820,000
Contingencies					50,000
Easement Acquisition (in kind)					40,000
Environmental Compliance					50,000
Administrative and Legal					40,000
Design and Construction Engineering					<u>90,000</u>
TOTAL					\$1,090,000

COST SHARING & REPAYMENT: The recommended cost sharing and repayment are:

<u>Agency</u>	<u>Cost Sharing</u>	<u>% of Total</u>
Board of Water Resources	\$ 500,000	45.9%
WaterSMART Grant	500,000	45.9
Sponsor	<u>90,000</u>	<u>8.2</u>
TOTAL	\$1,090,000	100%

If the board authorizes the project, it is suggested it be purchased at 0% interest over approximately 25 years with annual payments of \$20,000.

FINANCIAL FEASIBILITY: There are 17 shareholders in the Silver Creek Reservoir Company holding a total of 1,000 shares, with four shareholders owning a large portion of the shares. The sponsor's current annual share assessment is \$8.00/share. A repayment term of 25 years at 0% interest would increase the annual share

assessment by \$20.00/share, which is affordable even for the large shareholders.

BENEFITS: The proposed project will reduce maintenance costs, increase efficiency of the canal, provide better control at the inlet and outlet structure, and conserve water that is currently lost to seepage. Additionally, the proposed project will ease tension between the sponsor and the Silver Creek Irrigation Company, which both have water rights in Silver Creek, because flows diverted into the pipeline used by the sponsor will be more accurately measured.

PROJECT SPONSOR: Silver Creek Reservoir Company is currently in good standing with the state Department of Commerce. The sponsor has 17 shareholders, and has not previously obtained financing from the board.

There are a total of 1,000 shares in the company with one share equivalent to 1.5 acre-feet of water.

WATER RIGHTS & SUPPLY: The sponsor holds Water Right Numbers 65-3338 and 65-3339 for water diverted from Silver Creek. Water Right 65-3338 provides storage, with a maximum capacity of 1,480 acre-feet in the Wales Reservoir, from April 1 to October 15. Water Right 65-3339 for 1.0 cfs is available from October 15 to April 1.

EASEMENTS: All work will be done within the existing canal right-of way.

ENVIRONMENTAL: No permanent environmental impacts are anticipated during construction of the project.

WATER CONSERVATION: The sponsor will be required to submit a Water Management and Conservation Plan. Construction of the project will save an estimated 600 acre-feet currently lost to seepage.

SPONSOR'S RESPONSIBILITIES: If the board authorizes the proposed project, the sponsor must do the following before construction can begin:

1. Obtain all easements, rights-of-way, and permits required to construct, operate, and maintain the project.
2. Pass a resolution by the appropriate (as defined in the company's Articles of Incorporation and Bylaws) majority of company stock authorizing its officers to do the following:
 - a. Assign properties, easements, and water rights required for the project to the Board of Water Resources.
 - b. Enter into a contract with the Board of Water Resources for construction of the project and subsequent purchase from the board.
3. Have an attorney give the Board of Water Resources a written legal opinion that:
 - a. The company is legally incorporated for at least the term of the purchase contract and is in good standing with the state Department of Commerce.
 - b. The company has legally passed the above resolution in accordance with the requirements of state law and the company's Articles of Incorporation and Bylaws.
 - c. The company has obtained all permits required for the project.
 - d. The company owns all easements and rights-of-way for the project, as well as the land on which the project is located, and that title to these easements, rights-of-way, and the project itself can be legally transferred to the board.
 - e. The company's water rights applicable to the project are unencumbered and legally transferable to the Board of Water Resources, and that they cover the land to be irrigated by the project.
 - f. The company is in compliance with Section 73-10-33, Section 10-9a-211, and Section 17-27a-211 of the Utah Code.
4. Obtain approval of final plans and specifications from the Division of Water Resources.



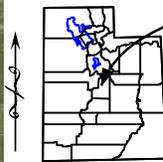
Moroni

Pipeline Inlet

Wales

San Pitch River

Silver Creek Canal Proposed Pipeline Project Sanpete County



Project Location

- Terminal Structure
- ■ ■ Pipeline

T15S, R3E, Section 29, SLBM

0 0.5 1 Miles

BOARD OF WATER RESOURCES

Application Summary

Appl. No. **E-386**
Received: 5/31/16

SPONSOR: **NORTH ELWOOD DITCH COMPANY**

President: Fred Selman
P.O. Box 175
Tremonton, UT 84337
Phone: 435-257-7201

LOCATION: The proposed project is located approximately 1.5 miles east of Tremonton in Box Elder County.

PROPOSED PROJECT: The sponsor is requesting financial assistance from the board to pipe over 3,300 feet of open canal to reduce water loss and safety risks.

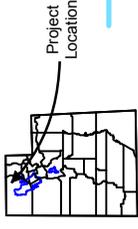
WATER RIGHTS: The sponsor obtains water from the Bear River Canal Company.

COST ESTIMATE: \$200,000

North Elwood Ditch Company

New Application

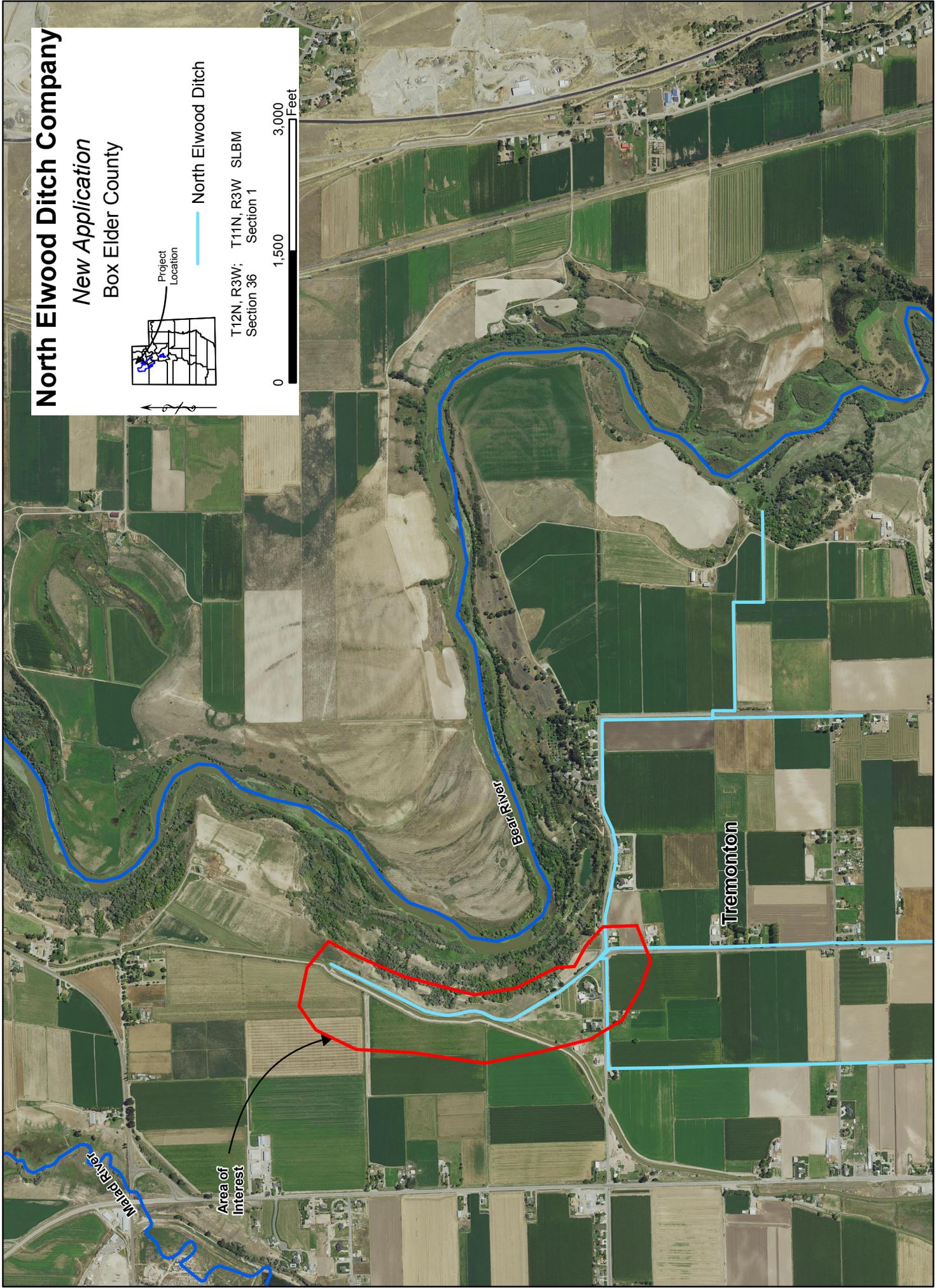
Box Elder County



T12N, R3W; T11N, R3W SLBM
Section 36
Section 1



— North Elwood Ditch



BOARD OF WATER RESOURCES

Application Summary

Appl. No. **E-387**

Received: 6/2/16

SPONSOR: **WEST WARREN AND WARREN WATER IMPROVEMENT
DISTRICT**

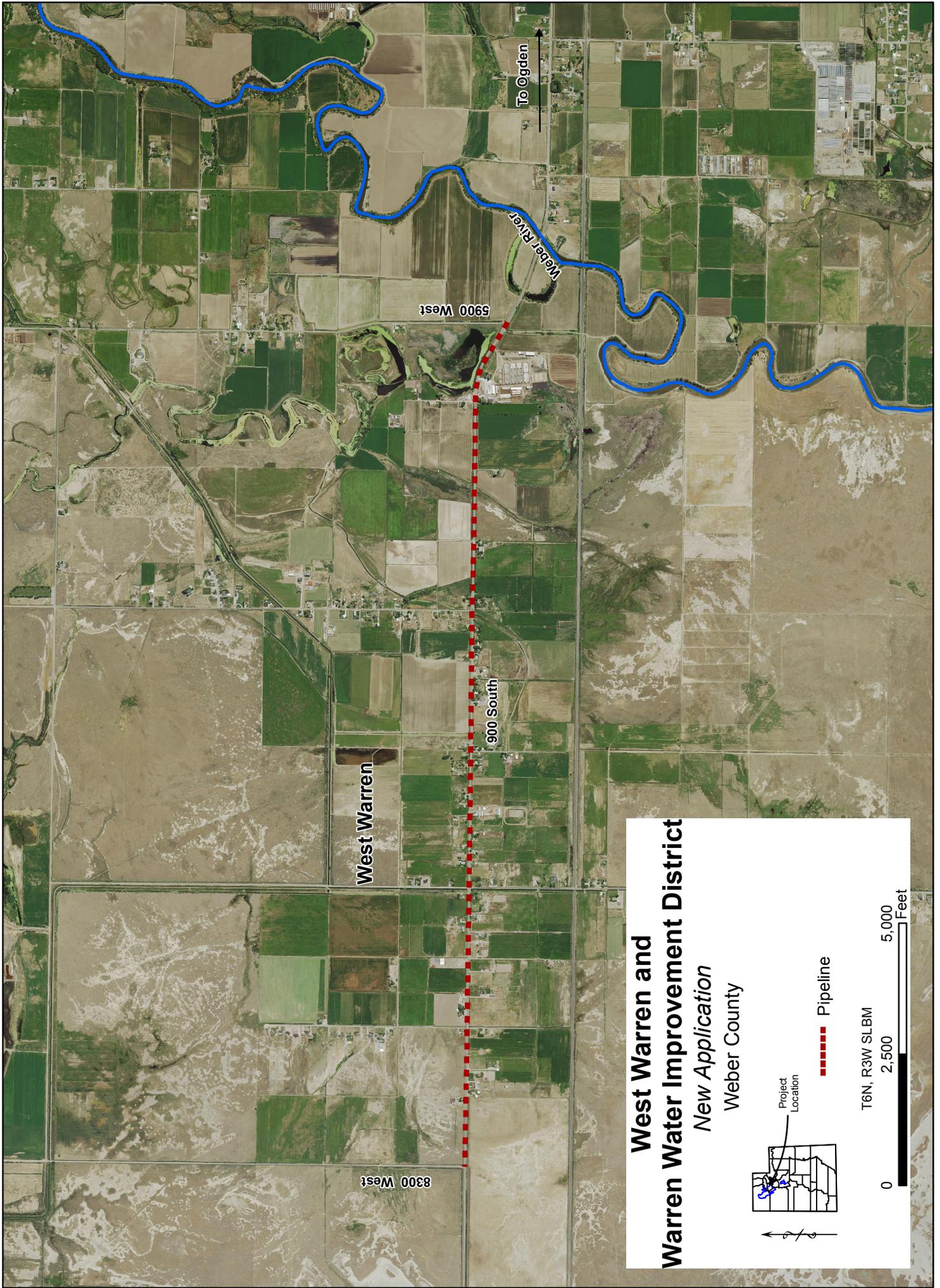
Chair: Randy Giordano
5783 West 950 North
Ogden, UT 84404
Phone: 801-731-1300

LOCATION: The proposed project is located approximately two miles west of Ogden in Weber County.

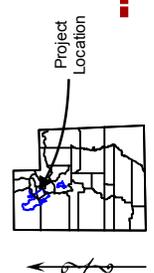
PROPOSED PROJECT: The sponsor is requesting financial assistance from the board to upsize three miles of transmission pipeline and construct a one million gallon water tank.

WATER RIGHTS: The sponsor purchases water from Weber Basin Water Conservancy District.

COST ESTIMATE: \$3,600,000



West Warren and Warren Water Improvement District New Application Weber County



----- Pipeline



T6N, R3W SLBM