



COLORADO

**Colorado Water
Conservation Board**

Department of Natural Resources

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John Hickenlooper, Governor

Robert W. Randall, DNR
Executive Director

James Eklund, CWCB Director

TO: Colorado Water Conservation Board Members

FROM: Craig Godbout
Program Manager – Water Supply Reserve Account Grant Program
Water Supply Planning Section

DATE: July 8, 2016

AGENDA ITEM: 16 (a-i) WSRA Grant Requests

Staff Recommendation – Action Items: WSRA Grant Requests

A summary of staff's recommendation for each WSRA application is provided in the first component of the attached table. If applicable, the table also includes a breakdown of match amounts for applications that include a request for Statewide Account WSRA funds.

Favorable recommendations may be contingent on providing the CWCB with additional information, clarifications, or modifications in the scope of work. Please refer to the Water Activity Summary Sheets contained within this agenda item to find a summary of staff's review and any conditions associated with each recommendation.

Background:

For this agenda item the Board is provided with a brief overview of applications to the Water Supply Reserve Account (WSRA). Attachments to this memo include:

- Summary spreadsheet detailing funding requests for the basin and statewide accounts;
- Summary spreadsheet displaying current WSRA Balance Summary of Fund Appropriations and Receipts by Fiscal Year, and Fund Distribution by Basin and Statewide Account.
- Water Activity Summary Sheets which provide an overview, discussion, issues/additional needs, and staff recommendation regarding funding, partial funding, or not funding the applications.

Staff's review of the applications involves the following steps:

- 1) Applications are reviewed for completeness based on the information requirements, which are primarily outlined in Part 2 of the Criteria and Guidelines (C&G).
- 2) Applications are reviewed to verify that the water activity meets the eligibility requirements in Section 39-29-108 (III) C.R.S. (C&G, Part 2) and the threshold criteria, which are based on the requirements of Section 39-29-108 (III) C.R.S., and two



sections of the Water for the 21st Century Act (House Bill 1177); Section 37-75-102 and Section 37-75-104(2)(c) (C&G, Part 3). Staff also verifies that the applicant was an eligible entity to receive funding (C&G, Part 2).

- 3) Staff then prepares the Water Activity Summary Sheet which documents the outcome of the review process and contains staff's recommendations.

Water Supply Reserve Account Balance Summary and Project Status Report:

To provide the Board updates on the status of specific Water Supply Reserve Account grant applications and projects, staff provides a status report in the CWCB Director's Report. The WSRA status report includes the following information:

- List of completed WSRA projects;
- List of WSRA projects in progress; and
- List of WSRA projects in the contracting and procurement process.



Water Supply Reserve Account Applications for Consideration at the CWCB July 2016 Board Meeting

Agenda Item	Basin	Applicant	Name of Water Activity	Basin(s) Account Request	Statewide Account Requests	Total Request	Cash Match	In-Kind Match	Total Match	Total Project or Study Costs	Staff Recommendations	PM
16(a)	Colorado	East Mesa Water Company	Thomas Creek Crossing and Pipeline and Flume Replacement	\$30,000	\$0	\$30,000	\$53,945	\$0	\$53,945	\$113,945	Staff recommends approval of up to \$30,000 from the Colorado Basin Account	Brent Newman
16(b)	Colorado	The New Multa Trina Ditch Company	North Thompson Ditch	\$20,000	\$0	\$20,000	\$135,000	\$5,000	\$140,000	\$160,000	Staff recommends approval of up to \$20,000 from the Colorado Basin Account	Brent Newman
16(c)	Gunnison	Surface Creek Ditch and Reservoir Company	Eggleston Dam Outlet Repair Project	\$46,911	\$0	\$46,911	\$31,947	\$0	\$31,947	\$78,858	Staff recommends approval of up to \$46,911 from the Gunnison Basin Account	Brent Newman
16(d)	Gunnison	Marcot Park Ditch and Reservoir Company	Marcot Dam Outlet Repair	\$49,649	\$0	\$49,649	\$37,461	\$0	\$37,461	\$87,110	Staff recommends approval of up to \$49,649 from the Gunnison Basin Account	Brent Newman
16(e)	Gunnison	Shavano Conservation District	Ditch Mapping of Colona Area	\$13,658	\$0	\$13,658	\$3,413	\$2,200	\$5,613	\$19,271	project titled: Marcot Dam Outlet Repair.	Brent Newman
16(f)	Southwest	Bauer Lake Water Company	Jackson Lake/Bauer Lake #2 Ditch Upgrade Project	\$55,000	\$0	\$55,000	\$0	\$3,000	\$3,000	\$58,000	Staff recommends approval of up to \$55,000 from the Southwest Basin Account	Craig Godbout
16(g)	Southwest	Animas Consolidated Ditch Company	Culvert Replacement Project	\$34,354	\$0	\$34,354	\$34,353	\$0	\$34,353	\$68,707	Staff recommends approval of up to \$34,354 from the Southwest Basin Account	Craig Godbout
16(h)	Yampa/White/Green	City of Steamboat Springs	Steamboat Springs Yampa River Management Plan	\$21,000	\$0	\$21,000	\$76,875	\$12,000	\$88,875	\$109,875	Staff recommends approval of up to \$21,000 from the Yampa/White/Green Basin Account	Chris Sturm
				\$270,572	\$0	\$270,572						

Change of Fiscal Agent (Grantee)

Agenda Item	Basin	Current Fiscal Agent (Grantee)	Proposed Fiscal Agent (Grantee)	Name of Water Activity								
16(i)	Arkansas	Lower Arkansas Water Conservancy District	Upper Arkansas Water Conservancy District	Arkansas Roundtable Basin Implementation Plan Coordinator								

Basin	Basin Account Requests	Statewide Account Requests	Total Requests	Current Basin Account Balances	Remaining Basin Account Balances (if all requests approved)	Current Statewide Account Balance
Arkansas Basin	\$0	\$0	\$0	\$184,903	(1)	\$184,903
Colorado Basin	\$50,000	\$0	\$50,000	\$473,327		\$423,327
Gunnison Basin	\$110,218	\$0	\$110,218	\$702,572		\$592,354
Metro Basin	\$0	\$0	\$0	\$334,337		\$334,337
North Platte	\$0	\$0	\$0	\$953,900		\$953,900
Rio Grande	\$0	\$0	\$0	\$345,156		\$345,156
Southwest	\$89,354	\$0	\$89,354	\$580,057		\$490,703
South Platte	\$0	\$0	\$0	\$423,806		\$423,806
Yampa/White/Green	\$21,000	\$0	\$21,000	\$1,185,624	(1)	\$1,164,624
Water Supply Reserve Account Total Requests	\$270,572	\$0	\$270,572	\$5,183,682		\$4,913,110

(1) Arkansas and Yampa/White/Green Current Basin Account Balances do not reflect May 2016 conditional approvals by CWCB

COLORADO WATER CONSERVATION BOARD
Water Supply Reserve Account - Balance Summary
June 2016

7/5/2016

Fund Appropriation and Receipts				
Fiscal Year	Legislative Appropriation	Funds Received	Statewide Account	Basin Account
2006/2007	\$10,000,000	\$10,000,000	\$5,500,000	\$4,500,000
2007/2008	\$6,000,000	\$6,000,000	\$4,200,000	\$1,800,000
2008/2009	\$10,000,000	\$7,000,000	\$4,300,000	\$2,700,000
2009/2010	\$5,775,000	\$5,775,000	\$4,215,750	\$1,559,250
2010/2011	\$6,000,000	\$6,000,000	\$4,380,000	\$1,620,000
2011/2012	\$7,000,000	\$7,000,000	\$4,732,000	\$2,268,000
2012/2013	\$10,000,000	\$7,157,724	\$4,580,943	\$2,576,781
2013/2014	\$10,000,000	\$10,091,639	\$6,458,649	\$3,632,990
2014/2015	\$10,000,000	\$10,000,000	\$6,400,000	\$3,600,000
2015/2016	\$10,000,000	\$9,103,590	\$5,826,298	\$3,277,292
Interest	N/A	\$2,857,935	\$1,829,078	\$0
Prior Years Interest Adjustment			\$1,028,856	\$0
2014/2015 Interest	N/A	\$ 240,216	\$240,216	\$0
2015/2016 Interest	N/A	\$ 180,824	\$180,824	\$0
TOTAL	\$84,775,000	\$81,406,927	\$53,872,614	\$27,534,313

Interest diverted to SW per DNR reconciliation

Note: The WSRA is a Severance Tax "Tier II" program with 40% of funds distributed on July 1, 30% on January 1, and the final 30% on April 1.

In FY 2008/2009 the final 30% installment of \$3,000,000 was not received due to the State's budgetary shortfall.

In January 2012 interest for the program from its inception to date was credited directly to the Statewide Account.

Interest from January 2012 on is regularly calculated by the Treasury and credited to the Statewide Account.

Fund Distribution					
Basin	Approved Basin Grants	Total Basin Funds	Basin Account Balance	Approved State Grants	Statewide Account Balance
Arkansas	\$2,874,465	\$3,059,368	\$184,903 (1)	\$8,739,504	
Colorado	\$2,586,041	\$3,059,368	\$473,327	\$5,612,524	
Southwest *	\$2,479,311	\$3,059,368	\$580,057	\$7,199,911	
Gunnison *	\$2,356,796	\$3,059,368	\$702,572	\$4,249,681	
Metro	\$2,725,031	\$3,059,368	\$334,337	\$7,346,148	
North Platte	\$2,105,468	\$3,059,368	\$953,900	540,942	
Rio Grande	\$2,714,212	\$3,059,368	\$345,156	\$10,350,323	
South Platte *	\$2,635,562	\$3,059,368	\$423,806	\$6,955,510	
Yampa/White	\$1,873,744	\$3,059,368	\$1,185,624 (1)	\$731,747	
TOTAL	\$22,350,631	\$27,534,313	\$5,183,682	\$51,726,289	\$2,146,325
TOTAL APPROVED GRANTS					\$74,076,919

Note: Only includes grants approved by CWCB

(1) Arkansas and Yampa/White/Green Current Basin Account Balances do not reflect May 2016 conditional approvals by CWCB

*See Comments - Figures have changes due to grantee's withdrawn funding

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
July 20-21, 2016
Agenda Item 16(a)

Applicant & Fiscal Agent: East Mesa Water Company

Water Activity Name: East Mesa Water Company Thomas Creek Crossing and Pipeline replacement and measuring flume at headgate

Water Activity Purpose: Agricultural

County: Garfield

Drainage Basin: Colorado

Water Source: Crystal River

Amount Requested/Source of Funds: \$30,000 Colorado Basin Account
\$30,000 Total Basin Account request

Matching Funds: Applicant Match: \$53,945 = 47% of the total project cost of \$113,945
(refer to *Funding Summary/Matching Funds* section below)

Staff Recommendation:

Staff recommends approval of up to \$30,000 from the Colorado Basin Account to help fund the project titled: East Mesa Water Company - Thomas Creek Crossing and pipeline replacement and measuring flume at headgate.
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Water Activity Summary: WSRA funds, if approved, will help fund the project titled: East Mesa Water Company - Thomas Creek Crossing and pipeline replacement and measuring flume at headgate. The East Mesa Water Company will install a 48 inch ADS plastic pipeline over Thomas Creek to replace the existing failing flume. This pipeline is located about 5 miles south of the intersection of Highway 82 and 133 at Carbondale, Colorado. Current plans are to complete the proposed work this spring or this fall and winter while the ditch is not in use.

The proposal is to construct a 140 ft. of 48-inch diameter pipe over the creek. The other small project of the Ditch is to replace about 140 feet of rusted pipe with 48 inch plastic ADS pipe in a section of the ditch that has historically leaked and the ditch embankment fails. This pipeline is located about 8.5 miles south of the intersection of Highway 82 and 133 at Carbondale, Colorado.

The third phase will be the replacement of the failing measuring flume and short pipe section at the headgate. A new 48 inch Parshall Flume will be installed along with a 20 ft. section of 46 inch elliptical Corrugated Metal Pipe. The new Parshall Flume will provide the ditch company with accurate reading for the amount of water diverted. This portion of the project is located nine miles south of Carbondale, Co. This project and service area lies in the Crystal River Valley in the western portion of Pitkin County and serves an area in the southeastern portion of Garfield County, Colorado. The Ditch Company has approximately 8.5 miles of distribution ditch starting at the diversion 9 miles south of the intersection of Highway 82 and 133 at Carbondale, Colorado. The service area is 740 acres in size and is known locally as East Mesa of the Crystal River and lies approximately one to

five miles south of Carbondale, Colorado. It should also be noted that much of this acreage is in numerous conservation easements held by Aspen Valley Land Trust. Therefore, the inherent continued irrigation of this property protects the beauty of Mount Sopris, the open space and agricultural setting of the area.

The ditch company services the 740 total acres with 12 users including private landowners and home owners association. The land use is nearly 100% agricultural. Irrigated acreage within the service area is primarily used for cattle ranching, nursery trees, and to grow hay and forage crops. The hay crop is used as cattle and horse feed, or is sold.

Discussion: The Colorado Basin Roundtable voted unanimously at its May 23, 2016, meeting to support the East Mesa Water Co. WSRA grant request, but at the 50 percent level: \$30,000. This is not a reflection on the merits of the project but of the fact that Severance Tax Funds are down and affecting WSRA Basin Account funding.

This project meets three major themes of the Colorado Basin Implementation Plan; 1) Sustain, Protect, and Promote Agriculture; 2) Encourage Conservation, and 3) Stream Health.

This project also meets additional critical actions identified in the Critical Action Plan (Chapter 10) of Colorado's Water Plan:

- **D2:** Encourage ditch-wide and regional planning to explore system-wide conservation and efficiency opportunities and tradeoffs, the potential for water sharing, and long-term infrastructure maintenance needs.
- **D3:** Provide grants, loans, and technical support to update and improve Colorado's aging agricultural infrastructure, especially where improvements provide multiple benefits.

Issues/Additional Needs: Staff will work with applicant to update budget and schedule, based on the Colorado Basin Roundtable's decision to fund this project at 50% of the request.

Threshold and Evaluation Criteria: The application meets all four Threshold Criteria.

Tier 1-3 Evaluation Criteria: n/a

Funding Summary/Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
CRWCD	\$35,000	\$0	\$35,000
Ditch Company funds	\$18,945	\$0	\$18,945
Subtotal Matching Funds	\$53,945	\$0	\$53,945
WSRA Colorado Basin Account	\$30,000	n/a	\$30,000
Total Project Costs	\$83,945	\$0	\$83,945

*** Staff will work with project proponent to ensure that sufficient funds are in-hand to fully fund the project, given the CBRT decision to fund at 50%.**

CWCB Project Manager: Brent Newman

All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and will help promote the development of a common technical platform. In accordance with the revised WSRA Criteria and Guidelines, staff would like to highlight additional reporting and final deliverable requirements. The specific requirements are provided below.

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the scope of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

Engineering: All engineering work (as defined in the Engineers Practice Act (§12-25-102(10) C.R.S.)) performed under this grant shall be performed by or under the responsible charge of professional engineer licensed by the State of Colorado to practice Engineering.

THE COLORADO BASIN ROUNDTABLE
C/O P.O. BOX 1120
GLENWOOD SPRINGS, COLORADO
81602

June 1, 2016

Craig Godbout
Colorado Water Conservation Board
Water Supply Planning Section
1313 Sherman Street
Denver, CO
 [\(303\) 866-3441, ext 3210](tel:(303)866-3441) (office); [\(970\) 218-9407](tel:(970)218-9407) (cell)
craig.godbout@state.co.us

Dear Craig:

The Colorado Basin Roundtable voted unanimously at its May 23, 2016, meeting to support the East Mesa Water Co. WSRA grant request, but at the 50 percent level: \$30,000. This is not a reflection on the merits of the project but of the fact that Severance Tax Funds are down and affecting WSRA Basin Account funding.

This project is supported by the Sustain, Protect and Promote Agriculture finding of our Basin Implementation Plan, as well as the Encourage Conservation and Healthy Stream findings. The East Mesa Water Co. is aggressively pursuing irrigation improvements based on a systematic planning effort that identifies infrastructure challenges. In the long run, aside from preserving the infrastructure, the possibility exists that a more efficient system could result in significant reduced diversions from the Crystal River.

This grant will assist in replacing the measuring device and structure at the headgate, replacing a failing flume over Thomas Creek and replacing a segment of leaking pipe just below the Nettle Creek pipe. These projects improve an existing water supply system in the northern portion of Pitkin County and the southern portion of Garfield County. This project will provide a more stable water flow and improve overall conservation efforts. Through these improvements, a more efficient water delivery system will be in place and will reduce sedimentation from ditch erosion and chance of landslides on the existing system.



Jim Pokrandt
Chair, Colorado Basin Roundtable



COLORADO WATER CONSERVATION BOARD



WATER SUPPLY RESERVE ACCOUNT APPLICATION FORM

Today's Date: Jan. 4. 2016

East Mesa Water Company Thomas Creek Crossing and
Pipeline replacement and measuring flume at Headgate.

Name of Water

East Mesa Water Company, Carbondale Colorado

Name of Applicant

Colorado Basin

Amount from Statewide
Account:

Amount from Basin
Account(s):

Total WSRA Funds
Requested:

Approving Basin Roundtable(s)
(If multiple basins specify amounts in parentheses.)

FEIN: 84-1612324

Application Content

Application Instructions	page 2
Part I – Description of the Applicant	page 3
Part II – Description of the Water Activity	page 5
Part III – Threshold and Evaluation Criteria	page 7
Part IV – Required Supporting Material	
Water Rights, Availability, and Sustainability	page 10
Related Studies	page 10
Signature Page	page 12

Required Exhibits

- A. Statement of Work, Budget, and Schedule
- B. Project Map
- C. As Needed (i.e. letters of support, photos, maps, etc.)

Appendices – Reference Material

- 1. Program Information
- 2. Insurance Requirements
- 3. WSRA Standard Contract Information (Required for Projects Over \$100,000)
- 4. W-9 Form (Required for All Projects Prior to Contracting)

Water Supply Reserve Account – Application Form

Revised October 2013

Instructions

To receive funding from the Water Supply Reserve Account (WSRA), a proposed water activity must be approved by the local Basin Roundtable **AND** the Colorado Water Conservation Board (CWCB). The process for Basin Roundtable consideration and approval is outlined in materials in Appendix 1.

Once approved by the local Basin Roundtable, the applicant should submit this application **with a detailed statement of work including budget and schedule as Exhibit A** to CWCB staff by the application deadline.

WSRA applications are due with the roundtable letter of support 60 calendar days prior to the bi-monthly Board meeting at which it will be considered. Board meetings are held in January, March, May, July, September, and November. Meeting details, including scheduled dates, agendas, etc. are posted on the CWCB website at: <http://cwcb.state.co.us> Applications to the WSRA Basin Account are considered at every board meeting, while applications to the WSRA Statewide Account are only considered at the March and September board meetings.

When completing this application, the applicant should refer to the WSRA Criteria and Guidelines available at: <http://cwcb.state.co.us/LoansGrants/water-supply-reserve-account-grants/Documents/WSRACriteriaGuidelines.pdf>. In addition, the applicant should also refer to the [Supplemental Scoring Matrix](#) applied to Evaluation Criteria Tiers 1-3 for Statewide Account requests .

The application, statement of work, budget, and schedule **must be submitted in electronic format** (Microsoft Word or text-enabled PDF are preferred) and can be emailed or mailed on a disk to:

Craig Godbout - WSRA Application
Colorado Water Conservation Board
1313 Sherman St., Room 721
Denver, CO 80203
Craig.godbout@state.co.us

If you have questions or need additional assistance, please contact Craig Godbout at: 303-866-3441 x3210 or craig.godbout@state.co.us.

Water Supply Reserve Account – Application Form

Revised October 2013

Part I. - Description of the Applicant (Project Sponsor or Owner);

1.	Applicant	East Mesa Water Company			
	Mailing address:	East Mesa Water Company 1625 Prince Creek Road Carbondale, CO 81623			
	FEIN #:	84-1612324			
	Primary	Richard McIntyre	Position/Ti	Sec - Treasure	
	Email:	Richard@flvingdogales.com			
	Phone	Cell	970 948 9628	Office	970 963 1923
	Alternate	Martv Nieslanik	Position/Ti	President	
	Email	nieslanikbeef@gmail.com			
	Phone	Cell	970 948 2102	Office	970 963 6822

2. Eligible entities for WSRA funds include the following. What type of entity is the Applicant?

- ☐ Public (Government) – municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities and the local entity should be the grant recipient. Federal agencies are eligible, but only if they can make a compelling case for why a local partner cannot be the grant recipient.
- ☐ Public (Districts) – authorities, Title 32/special districts, (conservancy, conservation, and irrigation districts), and water activity enterprises.
- ☐ Private Incorporated – mutual ditch companies, homeowners associations, corporations.
- ☒ Private individuals, partnerships, and sole proprietors are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
- ☐ Non-governmental organizations – broadly defined as any organization that is not part of the government.

Water Supply Reserve Account – Application Form

Revised October 2013

3. Provide a brief description of your organization

The East Mesa Water Company is an incorporated ditch company in the State of Colorado. The Company has an elected board of directors that manage the day-to-day business and operations of the ditch. The Ditch has a hired “ditch walker” to manage flows of water to the users of the ditch and to do some maintenance work. The East Mesa Water Company articles of incorporation and by-laws are included in Exhibit C.

4. If the Contracting Entity is different then the Applicant (Project Sponsor or Owner) please describe the Contracting Entity here.

The ditch company will sign contracts and will hire a construction company to install the pipeline.

5. Successful applicants will have to execute a contract with the CWCB prior to beginning work on the portion of the project funded by the WSRA grant. In order to expedite the contracting process the CWCB has established a standard contract with provisions the applicant must adhere to. A link to this standard contract is included in Appendix 3. Please review this contract and check the appropriate box.

☒ The Applicant will be able to contract with the CWCB using the Standard Contract

☐ The Applicant has reviewed the standard contract and has some questions/issues/concerns. Please be aware that any deviation from the standard contract could result in a significant delay between grant approval and the funds being available.

6. The Tax Payer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect the applicant.

This is not a Taxing entity

Water Supply Reserve Account – Application Form

Revised October 2013

Part II. - Description of the Water Activity/Project

1. What is the primary purpose of this grant application? (Please check only one)

☐ Nonconsumptive (Environmental or Recreational)

☒ Agricultural

☐ Municipal/Industrial

☐ Needs Assessment

☐ Education

☐ Other

2. If you feel this project addresses multiple purposes please explain.

The piped section will conserve water by reducing seepage, thus conserving irrigation water for this pre 1922 water right.

3. Is this project primarily a study or implementation of a water activity/project? (Please check only one)

☐ Study

☒ Implementation

4. To catalog measurable results achieved with WSRA funds can you provide any of the following numbers?

New Storage Created (acre-feet)

New Annual Water Supplies Developed, Consumptive or Nonconsumptive

Existing Storage Preserved or Enhanced (acre-feet)

Length of Stream Restored or Protected (linear feet)

Length of Pipe/Canal Built or Improved (linear feet)

Efficiency Savings (acre-feet/year OR dollars/year – **circle one**)

Area of Restored or Preserved Habitat (acres)

Other --

Water Supply Reserve Account – Application Form

Revised October 2013

4. To help us map WSRA projects please include a map (Exhibit B) and provide the general coordinates below:

Latitud

39.348780N

Longitud

-107.197880W

5. Please provide an overview/summary of the proposed water activity (no more than one page). Include a description of the overall water activity and specifically what the WSRA funding will be used for. A full **Statement of Work** with a detailed budget and schedule is required as **Exhibit A** of this application.

The East Mesa Water Company has completed an inventory of their Ditch and structures. This document is named “East Mesa Water Company Handbook” and has assisted us in determining the Structures and or sections that are most in need or replacement or repair. There are three sites selected for work in 2016.

The projects on the East Mesa Ditch will consist of replacing the measuring device and structure at the headgate, replacing a failing flume over Thomas Creek and replacing a segment of leaking pipe just below the Nettle Creek pipe. These projects improve an existing water supply system in the Crystal River Valley in the northern portion of Pitkin County and the southern portion of Garfield County, Colorado. This project will provide a more stable water flow and improve overall conservation efforts. Through these improvements, a more efficient water delivery system will be in place and will reduce sedimentation from ditch erosion and chance of landslides on the existing system.

This project is on the Crystal River with water rights of 41.8 CFS total allocation of which 31.8 were appropriated in 1894. The project protects the continual use of pre-1922 water rights and therefore protects Upper Basin water within compact compliance.

The East Mesa Water Company will install a 48 inch ADS plastic pipeline over Thomas Creek to replace the existing failing flume. This pipeline is located about 5 miles south of the intersection of Highway 82 and 133 at Carbondale, Colorado. The specific location is 39.348780, -107.197880. Current plans are to complete the proposed work this spring or this fall and winter while the ditch is not in use. The proposal is to construct a 140 ft. 48-inch diameter pipe over the creek.

The other small project of the Ditch is to replace about 140 feet of rusted pipe with 48 inch ADS plastic pipe in a section of the ditch that has historically leaked and the ditch embankment fails. This pipeline is located about 8.5 miles south of the intersection of Highway 82 and 133 at Carbondale, Colorado near the Nettle Creek crossing. The specific location is 39.299033, -107.213688.

The third phase will be the replacement of the failing measuring flume and short pipe section at the headgate. A new 48 inch Parshall Flume will be installed along with a 20 ft section of 46" elliptical Corrugated Metal Pipe. This portion of the project is located nine miles south of Carbondale, Co. The new Parshall Flume will provide more accurate record of water diverted for the East Mesa Ditch.. This project location is 39.293624, -107.216585.

This project and service area lies in the Crystal River Valley in the western portion of Pitkin County and serves an area in the southeastern portion of Garfield County, Colorado. The Ditch Company has approximately 8.5 miles of distribution ditch starting at the diversion 9 miles south of the intersection of Highway 82 and 133 at Carbondale, Colorado. The service area is 740 acres in size and is known locally as East Mesa of the Crystal River and lies approximately one to five miles south of Carbondale, Colorado. It should also be noted that

Water Supply Reserve Account – Application Form

Revised October 2013

much of this acreage is in numerous conservation easements held by Aspen Valley Land Trust. Therefore, the inherent continued irrigation of this property protects the beauty of Mount Sopris, the open space and agricultural setting of the area.

The ditch company services the 740 total acres with 12 users including private landowners and home owners association. The land use is nearly 100% agricultural. Irrigated acreage within the service area is primarily used for cattle ranching, nursery trees, and to grow hay and forage crops. The hay crop is used as cattle and horse feed, or is sold.

The Crystal River Valley area, Pitkin County and Garfield County, all have seen rapid population growth and development. This growth has placed additional demands on the water in the Crystal River and Roaring Fork River for agriculture irrigation, recreation, municipal and industrial uses. Matching this trend, the East Mesa Water Company has increased its number of shareholders of 6 in 1977 to 12 shareholders currently.

The area is greatly influenced by recreation, tourism and increased population, creating major changes in agriculture uses of the land and water. The water resources are having additional demands from domestic uses and industrial uses, specifically in the Town of Carbondale, as a result of this continued growth. The increased efficiency of this delivery system should ensure not only cleaner water (from the reduced debris) but also additional water into the Colorado River Basin where 4 endangered fish species are in critical habitat in Garfield County.

The economic impact of the agricultural production of the acreage affected, even assuming a small economic leverage factor, far exceeds total project cost within months, if not weeks, if this ditch were to fail. A quick economic value of the hay production alone would be: 740 ac. X 4 ton per acre X \$170.00 per ton = \$503,200.00 per year. Greater than this however, is the economic value created within the Roaring Fork Valley closely related to recreation and tourism. The effect on overall commerce would be significant if one of the most scenic views in the valley, that approaching Mt Sopris, were to be brown and dry rather than green and lush because this ditch failed. These economic and recreational effects are impossible to calculate in dollars.

This project could be involved in local conservation tours sponsored by the Mt. Sopris Conservation District. Related to this, appropriate press coverage and one-on-one discussions and meetings will educate local landowners about the improved water delivery and opportunities to protect this valuable water resource.

Water Supply Reserve Account – Application Form

Revised October 2013

Budget:

Phase one pipe crossing at Thomas Creek	
Mobilization	\$ 2,000.00
Clearing and Grubbing	5,000.00
Install pipe/concrete/I Beam/Trucking	20,000.00
140 ft. 48 inch ADS plastic pipe	10,920.00
Concrete work inlet and outlet structures	10,000.00
15 % Engineering contingency	<u>7,188.00</u>
Total estimated cost	\$55,108.00
Phase two Pipe Ditch lining	
Mobilization	\$ 1,500.00
Clearing and grubbing	4,000.00
140 ft. 48 ft ADS plastic pipe	10,920.00
Installation of pipe	8,000.00
Flared Inlet	900.00
15 % Engineering contingency	<u>3,828.00</u>
Total estimated cost	\$ 29,148.00
Phase Three Headgate area Parshall flume and Pipe	
Mobilization	\$ 2,000.00
Clearing and grubbing site prep.	3,000.00
48 inch Parshall Flume	5,000.00
Installation of Parshall Flume	7,000.00
46 elliptical pipe	2,800.00
Installation of 46 elliptical CMP pipe	6,000.00
15 % Engineering contingency	<u>3,889.00</u>
Total estimated cost	\$ 29,689.00
Total of 3 phases =	\$113,945.00

Project financial overview:

Sources of Funds

Ditch Company funds	\$ 18,945.00
Colorado River Water Conservation District - Grant Program	\$ 35,000.00
Colorado River Water Roundtable Funds	\$ 60,000.00
Total	\$113,945.00

Uses of Funds

Construction (Materials, Grading and Shaping, and Reclamation)	\$113,945.00
Total	\$113,945.00

Water Supply Reserve Account – Application Form

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Part III. – Threshold and Evaluation Criteria

1. Describe how the water activity meets these **Threshold Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines.)

- a) The water activity is consistent with Section 37-75-102 Colorado Revised Statutes.¹

The proposed project does not conflict with State water law and appropriation system. The project is following the Company's water rights.

- b) The water activity underwent an evaluation and approval process and was approved by the Basin Roundtable (BRT) and the application includes a description of the results of the BRT's evaluation and approval of the activity. At a minimum, the description must include the level of agreement reached by the roundtable, including any minority opinion(s) if there was not general agreement for the activity. The description must also include reasons why general agreement was not reached (if it was not), including who opposed the activity and why they opposed it. Note- If this information is included in the letter from the roundtable chair simply reference that letter.

This application will be completed once evaluation and approval is given by the Colorado River Basin Roundtable.

¹ 37-75-102. Water rights - protections. (1) It is the policy of the General Assembly that the current system of allocating water within Colorado shall not be superseded, abrogated, or otherwise impaired by this article. Nothing in this article shall be interpreted to repeal or in any manner amend the existing water rights adjudication system. The General Assembly affirms the state constitution's recognition of water rights as a private usufructuary property right, and this article is not intended to restrict the ability of the holder of a water right to use or to dispose of that water right in any manner permitted under Colorado law. (2) The General Assembly affirms the protections for contractual and property rights recognized by the contract and takings protections under the state constitution and related statutes. This article shall not be implemented in any way that would diminish, impair, or cause injury to any property or contractual right created by intergovernmental agreements, contracts, stipulations among parties to water cases, terms and conditions in water decrees, or any other similar document related to the allocation or use of water. This article shall not be construed to supersede, abrogate, or cause injury to vested water rights or decreed conditional water rights. The General Assembly affirms that this article does not impair, limit, or otherwise affect the rights of persons or entities to enter into agreements, contracts, or memoranda of understanding with other persons or entities relating to the appropriation, movement, or use of water under other provisions of law.

Water Supply Reserve Account – Application Form

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- c) The water activity meets the provisions of Section 37-75-104(2), Colorado Revised Statutes.² The Basin Roundtable Chairs shall include in their approval letters for particular WSRA grant applications a description of how the water activity will assist in meeting the water supply needs identified in the basin roundtable's consumptive and/or non-consumptive needs assessments.

To be determined at Colorado River Basin Roundtable meeting.

- d) Matching Requirement: For requests from the **Statewide Fund**, the applicants will be required to demonstrate a **25 percent** (or greater) match of the total grant request from the other sources, including by not limited to Basin Funds. A minimum match of 5% of the total grant amount shall be from Basin funds. A minimum match of 5% of the total grant amount must come from the applicant or 3rd party sources. Sources of matching funds include but are not limited to Basin Funds, in-kind services, funding from other sources, and/or direct cash match. Past expenditures directly related to the project may be considered as matching funds if the expenditures occurred within 9 months of the date the contract or purchase order between the applicant and the State of Colorado is executed. Please describe the source(s) of matching funds. (NOTE: These matching funds should also be reflected in your Detailed Budget in **Exhibit A** of this application)

Budget:

Project financial overview:

Sources of Funds

Ditch Company funds	\$ 18,945.00
Colorado River Water Conservation District - Grant Program	\$ 35,000.00
Colorado River Water Roundtable Funds	\$ 60,000.00
Total	\$113,945.00

Uses of Funds

Construction (Materials, Grading and Shaping, and Reclamation)	\$113,945.00
Total	\$113,945.00

² 37-75-104 (2)(c). Using data and information from the Statewide Water Supply Initiative and other appropriate sources and in cooperation with the on-going Statewide Water Supply Initiative, develop a basin-wide consumptive and nonconsumptive water supply needs assessment, conduct an analysis of available unappropriated waters within the basin, and propose projects or methods, both structural and nonstructural, for meeting those needs and utilizing those unappropriated waters where appropriate. Basin Roundtables shall actively seek the input and advice of affected local governments, water providers, and other interested stakeholders and persons in establishing its needs assessment, and shall propose projects or methods for meeting those needs. Recommendations from this assessment shall be forwarded to the Interbasin Compact Committee and other basin roundtables for analysis and consideration after the General Assembly has approved the Interbasin Compact Charter.

Water Supply Reserve Account – Application Form

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2. For Applications that include a request for funds from the **Statewide Account**, describe how the water activity/project meets all applicable **Evaluation Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines and repeated below.) Projects will be assessed on how well they meet the Evaluation Criteria. **Please attach additional pages as necessary.**

Evaluation Criteria – the following criteria will be utilized to further evaluate the merits of the water activity proposed for funding from the Statewide Account. In evaluation of proposed water activities, preference will be given to projects that meet one or more criteria from each of the three “tiers” or categories. Each “tier” is grouped in level of importance. For instance, projects that meet Tier 1 criteria will outweigh projects that only meet Tier 3 criteria. The applicant should also refer to the Supplemental Scoring Matrix applied to Evaluation Criteria Tiers 1-3 for Statewide Account requests. WSRA grant requests for projects that may qualify for loans through the CWCB loan program will receive preference in the Statewide Evaluation Criteria if the grant request is part of a CWCB loan/WSRA grant package. For these CWCB loan/WSRA grant packages, the applicant must have a CWCB loan/WSRA grant ratio of 1:1 or higher. Preference will be given to those with a higher loan/grant ratio.

The applicant is not applying for Statewide account funds.

Tier 1: Promoting Collaboration/Cooperation and Meeting Water Management Goals and Identified Water Needs

- a. The water activity addresses multiple needs or issues, including consumptive and/or non-consumptive needs, or the needs and issues of multiple interests or multiple basins. This can be demonstrated by obtaining letters of support from other basin roundtables (in addition to an approval letter from the sponsoring basin).
- b. The number and types of entities represented in the application and the degree to which the activity will promote cooperation and collaboration among traditional consumptive water interests and/or non-consumptive interests, and if applicable, the degree to which the water activity is effective in addressing intrabasin or interbasin needs or issues.
- c. The water activity helps implement projects and processes identified as helping meet Colorado’s future water needs, and/or addresses the gap areas between available water supply and future need as identified in SWSI or a roundtable’s basin-wide water needs assessment.

Tier 2: Facilitating Water Activity Implementation

The applicant is not applying for Statewide account funds.

- d. Funding from this Account will reduce the uncertainty that the water activity will be implemented. For this criterion the applicant should discuss how receiving funding from the Account will make a significant difference in the implementation of the water activity (i.e., how will receiving funding enable the water activity to move forward or the inability obtaining funding elsewhere).

Water Supply Reserve Account – Application Form

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-
- e. The amount of matching funds provided by the applicant via direct contributions, demonstrable in-kind contributions, and/or other sources demonstrates a significant & appropriate commitment to the project.

Tier 3: The Water Activity Addresses Other Issues of Statewide Value and Maximizes Benefits

The applicant is not applying for Statewide account funds.

- f. The water activity helps sustain agriculture & open space, or meets environmental or recreational needs.
- g. The water activity assists in the administration of compact-entitled waters or addresses problems related to compact entitled waters and compact compliance and the degree to which the activity promotes maximum utilization of state waters.
- h. The water activity assists in the recovery of threatened and endangered wildlife species or Colorado State species of concern.
- i. The water activity provides a high level of benefit to Colorado in relationship to the amount of funds requested.
- j. The water activity is complimentary to or assists in the implementation of other CWCB programs.

Continued: Explanation of how the water activity/project meets all applicable **Evaluation Criteria**.

Please attach additional pages as necessary.

Water Supply Reserve Account – Application Form

Revised October 2013

Part IV. – Required Supporting Material

1. **Water Rights, Availability, and Sustainability** – This information is needed to assess the viability of the water project or activity. Please provide a description of the water supply source to be utilized, or the water body to be affected by, the water activity. This should include a description of applicable water rights, and water rights issues, and the name/location of water bodies affected by the water activity.

Water for the East Mesa Water Company is supplied by a direct diversion from the Crystal River delivered through an open ditch to shareholders of the East Mesa Water Company. The diversion from the river is located 9 miles south of the intersection of highway 82 and 133 on the east side of the River. The Ditch is usually turned on in the first two weeks of May and runs until about the middle of October.

Total Water Rights are 41.8 CFS. 10.0 CFS direct flow irrigation, domestic and other beneficial use water right in the East Mesa Ditch on the Crystal River, decreed in Civil Action No. 4033, District Court, Garfield County, with an adjudication date of October 24, 1952, and an appropriation date of May 1, 1942.

The remaining 31.8 CFS direct flow irrigation right in the East Mesa Ditch on the Crystal River, decreed in Civil Action No. 990, District Court, Garfield County, with an adjudication date of December 12, 1902, and an appropriation date of August 10, 1894.

See Exhibit C for additional Legal Documents

2. Please provide a brief narrative of any related studies or permitting issues.

The NRCS has completed design information for this project (attached as Exhibit D). As well as Private engineering firm for the headgate and Parshall flume work.

Darcy Leavitt

GeoSpatial Logic, LLC

Pitkin County will be informed of work that involves land outside of the ditch ROW.

3. Statement of Work, Detailed Budget, and Project Schedule

The statement of work will form the basis for the contract between the Applicant and the State of Colorado. In short, the Applicant is agreeing to undertake the work for the compensation outlined in the statement of work and budget, and in return, the State of Colorado is receiving the deliverables/products specified. **Please note that costs incurred prior to execution of a contract or purchase order are not subject to reimbursement.** All WSRA funds are disbursed on a reimbursement basis after review invoices and appropriate backup material.

Please provide a detailed statement of work using the template in Exhibit A. Additional sections or modifications may be included as necessary. Please define all acronyms and include page numbers.

See Exhibit A

REPORTING AND FINAL DELIVERABLE

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the statement of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

PAYMENT

Payment will be made based on actual expenditures and invoicing by the applicant. Invoices from any other entity (i.e. subcontractors) cannot be processed by the State. The request for payment must include a description of the work accomplished by major task, and estimate of the percent completion for individual tasks and the entire water activity in relation to the percentage of budget spent, identification of any major issues and proposed or implemented corrective actions. The last 10 percent of the entire water activity budget will be withheld until final project/water activity documentation is completed. All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and help promote the development of a common technical platform.

Water Supply Reserve Account – Application Form

Revised October 2013

The above statements are true to the best of my knowledge:

Signature of Applicant:

Print Applicant's Name: Marty Nieslanik, President
East Mesa Water Company

Project Title: East Mesa Water Company Thomas Creek
Crossing and Pipeline replacement

Return an electronic version (hardcopy may also be submitted) of this application to:

Craig Godbout – WSRA Application
Colorado Water Conservation Board
1313 Sherman St., Room 721
Denver, CO 80203
303-866-3441, ext. 3210 (office)
303-547-8061 (cell)
craig.godbout@state.co.us

East Mesa Water Company

Exhibit A – Statement of Work, Budget and Schedule

Statement of Work:

The East Mesa Water Company will install a 48 inch ADS plastic pipeline over Thomas Creek to replace the existing failing flume. This pipeline is located about 5 miles south of the intersection of Highway 82 and 133 at Carbondale, Colorado. The specific location is 39.348780, -107.197880. Current plans are to complete the proposed work this spring or this fall and winter while the ditch is not in use. The proposal is to construct a 140 ft. of 48-inch diameter pipe over the creek.

The other small project of the Ditch is to replace about 140 feet of rusted pipe with 48 inch plastic ADS pipe in a section of the ditch that has historically leaked and the ditch embankment fails. This pipeline is located about 8.5 miles south of the intersection of Highway 82 and 133 at Carbondale, Colorado. The specific location is 39.299033, -107.213688.

The third phase will be the replacement of the failing measuring flume and short pipe section at the headgate. A new 48 inch Parshall Flume will be installed along with a 20 ft. section of 46 inch elliptical Corrugated Metal Pipe. The new Parshall Flume will provide the ditch company with accurate reading for the amount of water diverted. This portion of the project is located nine miles south of Carbondale, Co. This project location is 39.293624, -107.216585.

This project and service area lies in the Crystal River Valley in the western portion of Pitkin County and serves an area in the southeastern portion of Garfield County, Colorado. The Ditch Company has approximately 8.5 miles of distribution ditch starting at the diversion 9 miles south of the intersection of Highway 82 and 133 at Carbondale, Colorado. The service area is 740 acres in size and is known locally as East Mesa of the Crystal River and lies approximately one to five miles south of Carbondale, Colorado. It should also be noted that much of this acreage is in numerous conservation easements held by Aspen Valley Land Trust. Therefore, the inherent continued irrigation of this property protects the beauty of Mount Sopris, the open space and agricultural setting of the area.

The ditch company services the 740 total acres with 12 users including private landowners and home owners association. The land use is nearly 100% agricultural. Irrigated acreage within the service area is primarily used for cattle ranching, nursery trees, and to grow hay and forage crops. The hay crop is used as cattle and horse feed, or is sold.

This project will be involved in local conservation tours sponsored by the Mt. Sopris Conservation District. Related to this, appropriate press coverage and one-on-one discussions and meetings will educate local landowners about the improved water delivery and opportunities to protect this valuable water resource.

Budget:

Phase one pipe crossing at Thomas Creek	
Mobilization	\$ 2,000.00
Clearing and Grubbing	5,000.00
Install pipe/concrete/I Beam/Trucking	20,000.00
140 ft. 48 inch ADS plastic pipe	10,920.00
Concrete work inlet and outlet structures	10,000.00
15 % Engineering contingency	<u>7,188.00</u>
Total estimated cost	\$55,108.00
Phase two Pipe Ditch lining	
Mobilization	\$ 1,500.00
Clearing and grubbing	4,000.00
140 ft. 48 ft ADS plastic pipe	10,920.00
Installation of pipe	8,000.00
Flared Inlet	900.00
15 % Engineering contingency	<u>3,828.00</u>
Total estimated cost	\$ 29,148.00
Phase Three Headgate area Parshall flume and Pipe	
Mobilization	\$ 2,000.00
Clearing and grubbing site prep.	3,000.00
48 inch Parshall Flume	5,000.00
Installation of Parshall Flume	7,000.00
46 elliptical pipe	2,800.00
Installation of 46 elliptical CMP pipe	6,000.00
15 % Engineering contingency	<u>3,889.00</u>
Total estimated cost	\$ 29,689.00
Total of 3 phases =	\$113,945.00

Project financial overview:**Sources of Funds**

Ditch Company funds	\$ 18,945.00
Colorado River Water Conservation District - Grant Program	\$ 35,000.00
Colorado River Water Roundtable Funds	\$ 60,000.00
Total	\$113,945.00

Uses of Funds

Construction:

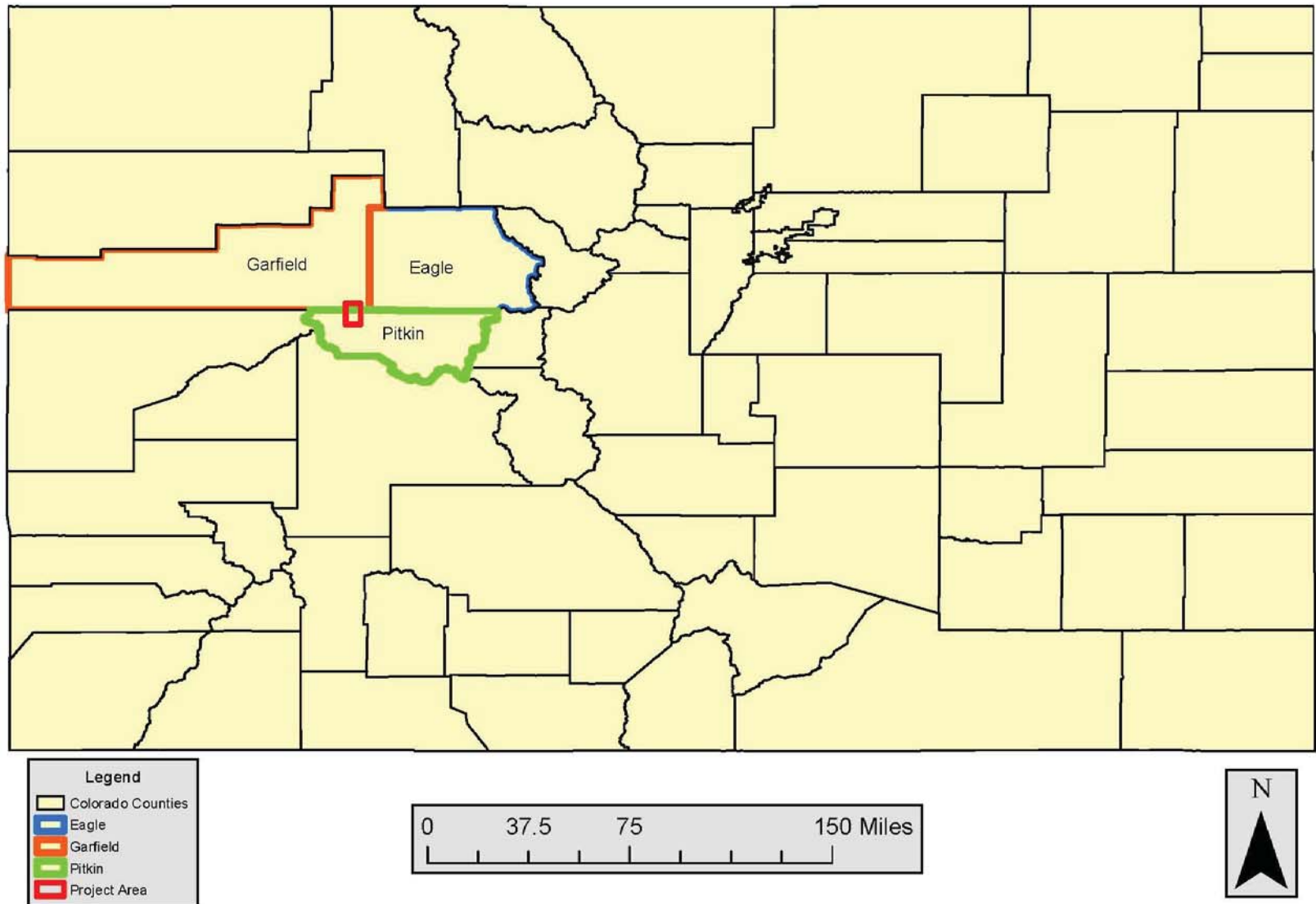
(Materials, Grading and Shaping, and Reclamation)	\$113,945.00
Total	\$113,945.00

Schedule:

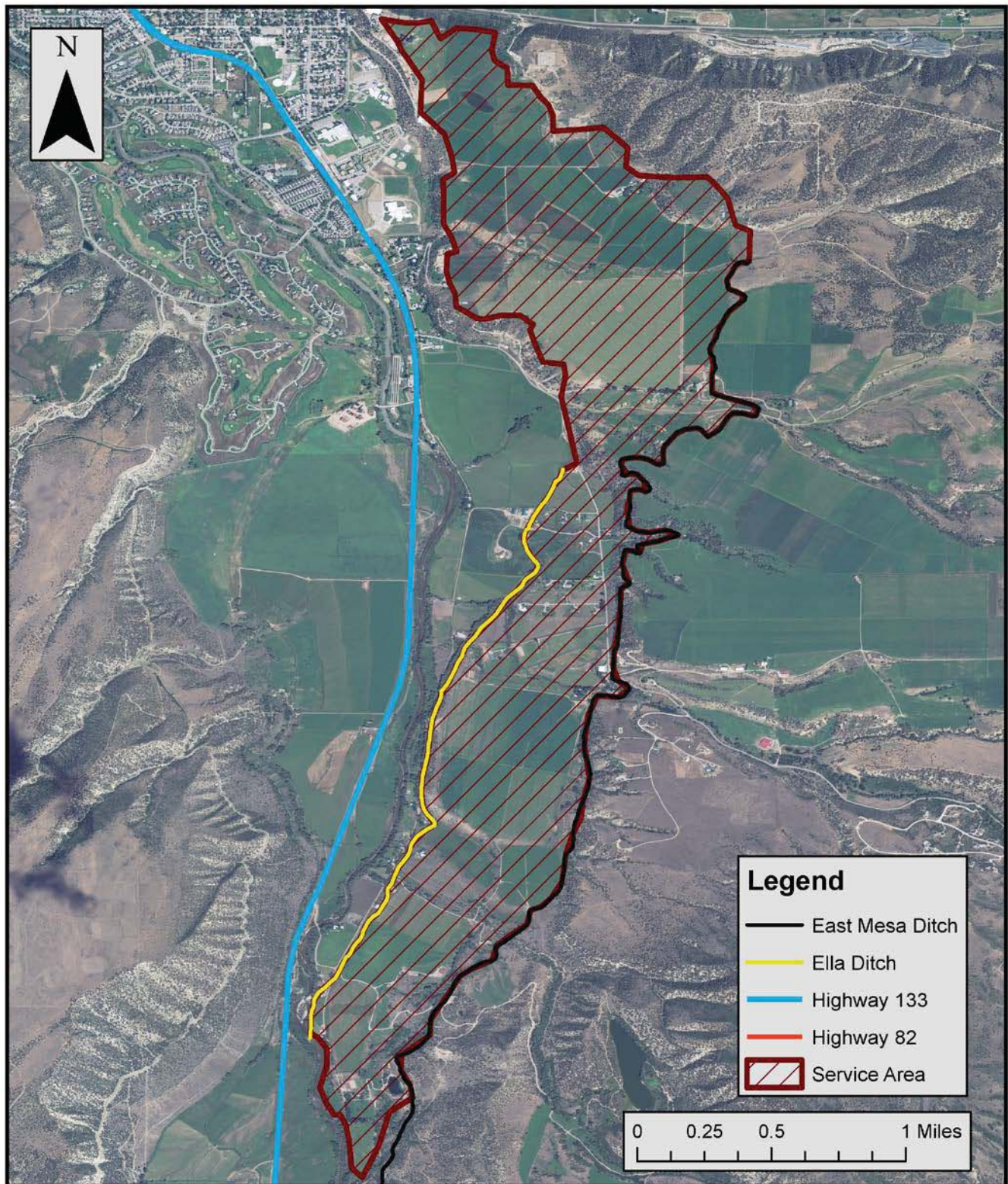
This project will commence as soon as all funding sources have confirmed approval and acceptance. The ditch is operational from May until October so at this time, it is intended to commence the project April 1, 2016 to ensure it's completion before irrigation water is turned into the ditch. Once mobilized, total construction time should occur within 3 weeks beginning April of 2016 with anticipated completion by the end of April. If progress for funding and contractor contracting is not completed in a timely manner a later date of completion may be required.

Task	Start Date	Finish Date
Engineering Design	By NRCS	Jan 1, 2016 completed
Bid Package	Feb 1, 2016	Feb.9, 2016
Bid Opening	March 1, 2016	March 5, 2016
Contracting	March 15, 2016	March 20, 2016
Begin Construction	April 1, 2016	May 1, 2016
Complete Project	May 15, 2016	

East Mesa Water Company Pipeline Project State Overview Map



East Mesa Water Company Pipeline Project Service Area Map



EAST MESA DITCH

Proposed 2016 Ditch Projects



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES AeroGrid, IGN, ISF, Swiretopo, and the GIS User Community, Esri, OpenStreetMap contributors, Esri, HERE, DeLorme, MapmyIndia, community

0 0.275 0.55 1.1 1.65 2.2 Miles

Map: Rick Norman 2015

1:40,000

Thomas Creek Crossing Failing CMP Pipe



**Failed Ditch lining CMP Pipe
To be Replaced**





Sample picture of 4 ft Parshall Flume

Similar to Proposed siphon for East Mesa Ditch

East Mesa Water Company

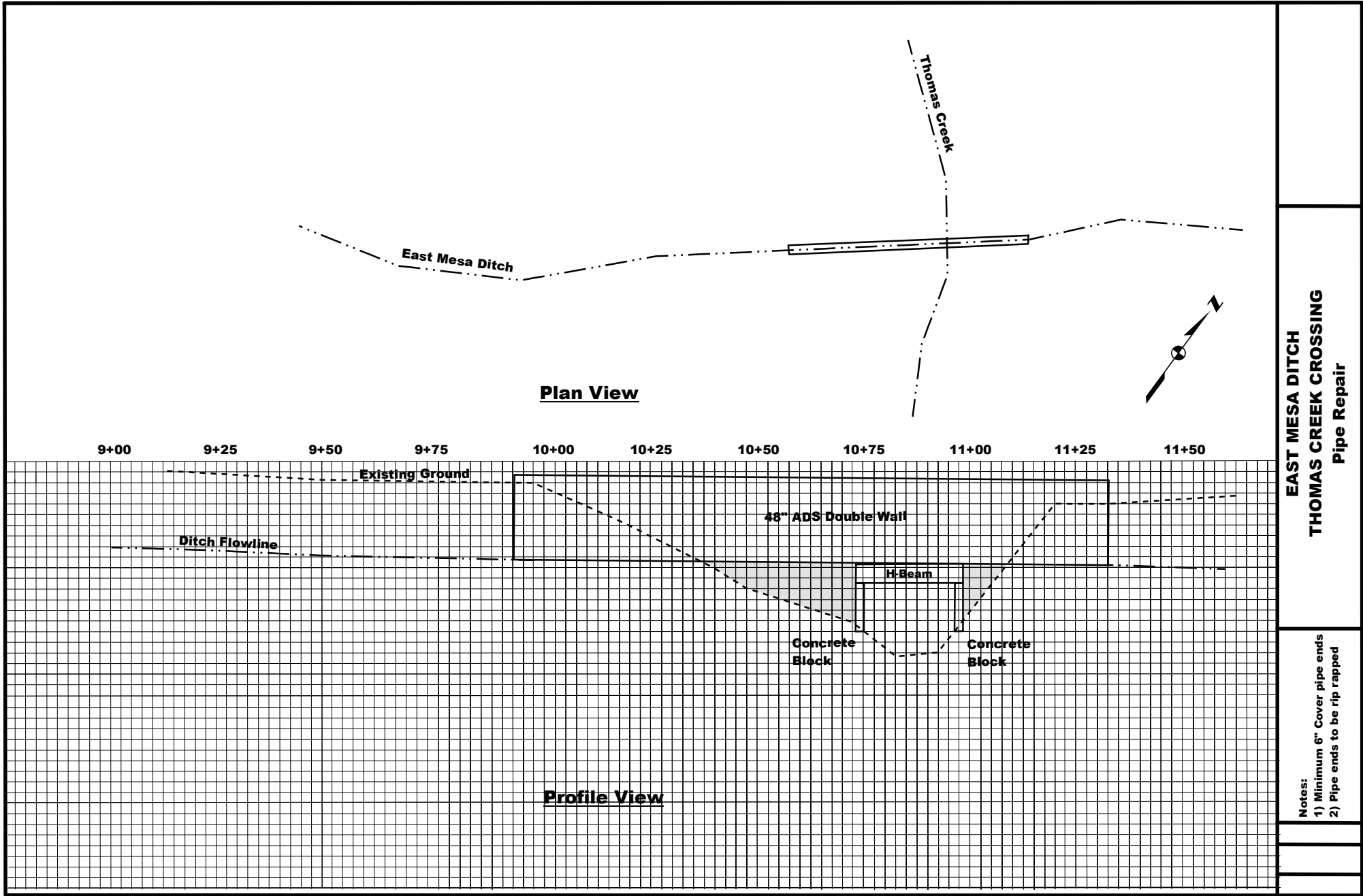
Exhibit C – East Mesa Corporate Documentation



Articlal of incorp 2006.pdf



New amended bylaws2010.pdf



Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
July 20-21, 2016
Agenda Item 16(b)

Applicant & Fiscal Agent: The New Multa Trina Ditch Company
Water Activity Name: North Thompson Ditch
Water Activity Purpose: Agricultural
County: Garfield
Drainage Basin: Colorado
Water Source: West Divide Creek
Amount Requested/Source of Funds: \$20,000 Colorado Basin Account
\$20,000 Total Basin Account request
Matching Funds: Applicant Match: \$140,000 = 87.5% of the total project cost of \$160,000
(refer to *Funding Summary/Matching Funds* section below)

Staff Recommendation:

Staff recommends approval of up to \$20,000 from the Colorado Basin Account to help fund the project titled: North Thompson Ditch.
--

Water Activity Summary: WSRA funds, if approved, will help fund the project titled: North Thompson Ditch. Approximately 2 to 3 years ago the US Forest Service clear-cut the timber above the north collection ditch that is part of the Thompson diversion ditch system. The ditch company believes that the combination of the clear cut and the above average rainfall in the month of May 2015 caused the ground to slip taking out approximately 500 feet of ditch.

The New Multa Trina Ditch Company is going to pipe 500 feet of ditch with an inverted siphon. The work will be completed between July 1, 2016 and November 1, 2016. The outcome from the slide would cause the shareholders to lose one to two weeks of water to irrigate their agriculture land. Piping would also cut down the loss to evaporation. The shareholders of the ditch company want to avoid losing the amount of water delivered at a very crucial time of year, due to not being able to transfer the water from the north drainage that is carried by the north collection ditch of the Thompson Creek diversion project.

The long term goals of the TNMTDC are to pipe as much of the ditch as can be so to reduce water loss. When there are needed repairs pipe will be used, if feasible. Repairing the Thompson creek project will make sure that the late water needs of shareholders are met, thereby protecting the water right. The project will be funded by USDA, Colorado River Water Conservation District, cash and in kind (miles and time) from shareholders. The water is needed to preserve the ranches and farms that rely on the New Multa Trina Ditch Company for irrigation water.

Discussion: The Colorado Basin Roundtable voted unanimously at its May 23, 2016, meeting to support the New Multa Trina Ditch Company's WSRA grant request, but at the 50 percent level:

\$20,000. This is not a reflection on the merits of the project but of the fact that Severance Tax Funds are down and affecting WSRA Basin Account funding.

This project meets two major themes of the Colorado Basin Implementation Plan; 1) Sustain, Protect, and Promote Agriculture and 2) Encourage Conservation.

This project also meets additional critical actions identified in the Critical Action Plan (Chapter 10) of Colorado's Water Plan:

- **D2:** Encourage ditch-wide and regional planning to explore system-wide conservation and efficiency opportunities and tradeoffs, the potential for water sharing, and long-term infrastructure maintenance needs.
- **D3:** Provide grants, loans, and technical support to update and improve Colorado's aging agricultural infrastructure, especially where improvements provide multiple benefits.

Issues/Additional Needs: Staff will work with applicant to update budget and schedule, based on the Colorado Basin Roundtable's decision to fund this project at 50% of the request.

Threshold and Evaluation Criteria: The application meets all four Threshold Criteria.

Tier 1-3 Evaluation Criteria: n/a

Funding Summary/Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
CRWCD	\$40,000	n/a	\$40,000
USDA	\$85,000	n/a	\$85,000
Ditch Company	\$10,000	\$5,000	\$15,000
Subtotal Matching Funds	\$135,000	\$0	\$140,000
WSRA Colorado Basin Account	\$20,000	n/a	\$20,000
Total Project Costs	\$155,000	\$5,000	\$160,000

*** Staff will work with project proponent to ensure that sufficient funds are in-hand to fully fund the project, given the CBRT decision to fund at 50%.**

CWCB Project Manager: Brent Newman

All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and will help promote the development of a common technical platform. In accordance with the revised WSRA Criteria and Guidelines, staff would like to highlight additional reporting and final deliverable requirements. The specific requirements are provided below.

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial

completion of the tasks identified in the scope of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

Engineering: All engineering work (as defined in the Engineers Practice Act (§12-25-102(10) C.R.S.)) performed under this grant shall be performed by or under the responsible charge of professional engineer licensed by the State of Colorado to practice Engineering.

THE COLORADO BASIN ROUNDTABLE
C/O P.O. BOX 1120
GLENWOOD SPRINGS, COLORADO
81602

June 1, 2016

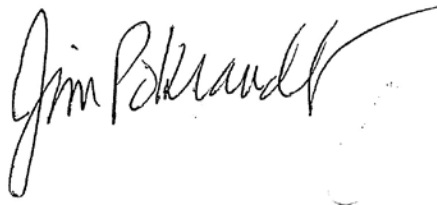
Craig Godbout
Colorado Water Conservation Board
Water Supply Planning Section
1313 Sherman Street
Denver, CO
 [\(303\) 866-3441, ext 3210](tel:(303)866-3441) (office); [\(970\) 218-9407](tel:(970)218-9407) (cell)
craig.godbout@state.co.us

Dear Craig:

The Colorado Basin Roundtable voted unanimously at its May 23, 2016, meeting to support the New Multa Trina Ditch Co. WSRA grant request, but at the 50 percent level: \$20,000. This is not a reflection on the merits of the project but of the fact that Severance Tax Funds are down and affecting WSRA Basin Account funding.

This project is supported by the Sustain, Protect and Promote Agriculture finding of our Basin Implementation Plan. The Multa Trina Ditch in western Garfield County irrigates 2,439 acres and suffered the loss of 500 feet of ditch on its north collection ditch due to ground movement from above-average rainfall in May 2015. The irrigation water from this system is important late season irrigation water for 61 shareholders. The repairs will make the system whole while reducing seepage in the proposed piping of the 500 feet with the installation of an inverted syphon.

The piping begins a long-term plan to pipe as much of the ditch as possible to reduce water losses.

A handwritten signature in black ink, appearing to read "Jim Pokrandt". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Jim Pokrandt
Chair, Colorado Basin Roundtable



COLORADO WATER CONSERVATION BOARD



WATER SUPPLY RESERVE ACCOUNT APPLICATION FORM

North Thompson Ditch

Name of Water Activity/Project

The New Multa Trina Ditch Company

Name of Applicant

Don Louthan

Amount from Statewide Account:

00,000.

Amount from Basin Account(s):

40,000.

Approving Basin Roundtable(s)

(If multiple basins specify amounts in parentheses.)

Total WSRA Funds Requested:

20,000

Application Content

Application Instructions	page 2
Part I – Description of the Applicant	page 3
Part II – Description of the Water Activity	page 5
Part III – Threshold and Evaluation Criteria	page 7
Part IV – Required Supporting Material	
Water Rights, Availability, and Sustainability	page 10
Related Studies	page 10
Signature Page	page 12

Required Exhibits

- A. Statement of Work, Budget, and Schedule
- B. Project Map
- C. As Needed (i.e. letters of support, photos, maps, etc.)

Water Supply Reserve Account – Application Form

Revised December 2011

Appendices – Reference Material

1. Program Information
2. Insurance Requirements
3. WSRA Standard Contract Information (Required for Projects Over \$100,000)
4. W-9 Form (Required for All Projects Prior to Contracting)

1

Instructions

To receive funding from the Water Supply Reserve Account (WSRA), a proposed water activity must be approved by the local Basin Roundtable **AND** the Colorado Water Conservation Board (CWCBC). The process for Basin Roundtable consideration and approval is outlined in materials in Appendix 1.

Once approved by the local Basin Roundtable, the applicant should submit this application **with a detailed statement of work including budget and schedule as Exhibit A** to CWCBC staff by the application deadline.

WSRA applications are due with the roundtable letter of support 60 calendar days prior to the bi-monthly

Board meeting at which it will be considered. Board meetings are held in January, March, May, July, September, and November. Meeting details, including scheduled dates, agendas, etc. are posted on the CWCBC website at: <http://cwcb.state.co.us> Applications to the WSRA Basin Account are considered at every board meeting, while applications to the WSRA Statewide Account are only considered at the March and September board meetings.

When completing this application, the applicant should refer to the WSRA Criteria and Guidelines available at: <http://cwcb.state.co.us/LoansGrants/water-supply-reserve-accountgrants/Documents/WSRACriteriaGuidelines.pdf>

The application, statement of work, budget, and schedule **must be submitted in electronic format** (Microsoft Word or text-enabled PDF are preferred) and can be emailed or mailed on a disk to:

Greg Johnson – WSRA Application
Colorado Water Conservation Board
1580 Logan Street, Suite
200 Denver, CO 80203
gregory.johnson@state.co.us
S

Water Supply Reserve Account – Application Form

Revised December 2011

If you have questions or need additional assistance, please contact Greg Johnson at: 303-866-3441 x3249 or gregory.johnson@state.co.us.

Part I. - Description of the Applicant (Project Sponsor or Owner);

1.	Applicant Name(s):	The New Multa Trina Ditch Company			
	Mailing address:	PO Box 118 Silt CO 81652			
	Taxpayer ID#:	84-0430489			
	Primary Contact	Don Louthan	Position/Title:	Vice President	
	Email:				
			Office:	970 876 2811	
		George Robinson	Position/Title:	President	
	Phone Numbers:	Cell:			
	Alternate Contact:				
	Email:	g-robinson-55@hotmail.com			
	Phone Numbers:	Cell:	970 618 7599	Office:	970 876 2652

2. Eligible entities for WSRA funds include the following. What type of entity is the Applicant?

☐ Public (Government) – municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities and the local entity should be the grant recipient. Federal agencies are eligible, but only if they can make a compelling case for why a local partner cannot be the grant recipient.

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-
- ☐ Public (Districts) – authorities, Title 32/special districts, (conservancy, conservation, and irrigation districts), and water activity enterprises.
- ☒ Private Incorporated – mutual ditch companies, homeowners associations, corporations.
- ☐ Private individuals, partnerships, and sole proprietors are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
- ☐ Non-governmental organizations – broadly defined as any organization that is not part of the government.

3. Provide a brief description of your organization

The New Multa Trina Ditch Company diverts from West Divide Creek in Garfield County, Colorado. Water Division 5, Water District 45. The ditch has historically been used for the irrigation of 2439 acres of agricultural lands located south of the Colorado River and south of the town of Silt. There are 61 shareholders who have varying amounts of total 36,125 shares. The ditch service area is generally bounded by the Divide Creek on the east, Mamm Creek on the west and the Colorado River to the north.

The New Multa Trina Ditch Company is decreed 58 cubic feet per second (cfs), absolute to the The New Multa Trina Ditch Company for irrigation use out of Divide Creek.

The water rights of the The New Multa Trina Ditch Company have not historically yielded a reliable supply to meet the diversion requirements of irrigable land under the ditch. The New Multa Trina Ditch Company 32 cfs were made absolute on August 1, 1937 for the ditch company to adjudicate the Thompson Creek diversion. The diversion includes three gather ditches that come together at the Hay Stack gate and flows to the New Multa Tina Ditch company headgate on Divide Creek. This water is critical to have irrigation water until the first of July. Even with the Thompson Creek water we are considered a water short ditch.

4. If the Contracting Entity is different then the Applicant (Project Sponsor or Owner) please describe the Contracting Entity here.

Same

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5. Successful applicants will have to execute a contract with the CWCB prior to beginning work on the portion of the project funded by the WSRA grant. In order to expedite the contracting process the CWCB has established a standard contract with provisions the applicant must adhere to. A link to this standard contract is included in Appendix 3. Please review this contract and check the appropriate box.

☒

The Applicant will be able to contract with the CWCB using the Standard Contract

☐

The Applicant has reviewed the standard contract and has some questions/issues/concerns. Please be aware that any deviation from the standard contract could result in a significant delay between grant approval and the funds being available.

6. The Tax Payer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect the applicant.

Part II. - Description of the Water Activity/Project

1. What is the primary purpose of this grant application? (Please check only one)

☐

Nonconsumptive (Environmental or Recreational)

☒

Agricultural

☐

Municipal/Industrial

☐

Needs Assessment

☐

Education

☐

Other

Explain:

2. If you feel this project addresses multiple purposes please explain.

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3. Is this project primarily a study or implementation of a water activity/project? (Please check only one)

☐

Study

☒

Implementation

4. To catalog measurable results achieved with WSRA funds can you provide any of the following numbers?

New Storage Created (acre-feet)

New Annual Water Supplies Developed, Consumptive or Nonconsumptive (acre-feet)

Existing Storage Preserved or Enhanced (acre-feet)

Length of Stream Restored or Protected (linear feet)

Length of Pipe/Canal Built or Improved (linear feet)

Efficiency Savings (acre-feet/year OR dollars/year – **circle one**)

Area of Restored or Preserved Habitat (acres)

☒

Other --
Explain:

To repair damage to north Thompson gathering ditch a part of the Thompson Creek diversion project of The New Multa Trina Ditch Company.

4. To help us map WSRA projects please include a map (Exhibit B) and provide the general coordinates below:

Latitude:

39*18'52.333"N

Longitude:

107*23'6.565"W

5. Please provide an overview/summary of the proposed water activity (no more than one page). Include a description of the overall water activity and specifically what the WSRA funding will be used for. A full **Statement of Work** with a detailed budget and schedule is required as **Exhibit A** of this application.

Approximately 2 to 3 years ago the US Forest Service clear cut the timber above the north collection ditch that is part of the Thompson diversion ditch system. The ditch company believes that the combination of the clear cut and the above average rainfall in the month of May 2015 caused the ground to slip taking out approximately 500 feet of ditch. The New Multa Trina Ditch Company is going to pipe 500 feet of ditch with an inverted syphon. The cost of the pipe and the welding for the syphon is \$96,000.00. The contractor fees and other labor costs would bring the project up to approximately \$160,000.00. The work will done between July 1, 2016 and November 1, 2016.

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Part III. – Threshold and Evaluation Criteria

1. Describe how the water activity meets these **Threshold Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines.)

a) The water activity is consistent with Section 37-75-102 Colorado Revised Statutes.¹

N/A

b) The water activity underwent an evaluation and approval process and was approved by the Basin Roundtable (BRT) and the application includes a description of the results of the BRTs evaluation and approval of the activity. At a minimum, the description must include the level of agreement reached by the roundtable, including any minority opinion(s) if there was not general agreement for the activity. The description must also include reasons why general agreement was not reached (if it was not), including who opposed the activity and why they opposed it. Note- If this information is included in the letter from the roundtable chair simply reference that letter.

N/A

¹ 37-75-102. Water rights - protections. (1) It is the policy of the General Assembly that the current system of allocating water within Colorado shall not be superseded, abrogated, or otherwise impaired by this article. Nothing in this article shall be interpreted to repeal or in any manner amend the existing water rights adjudication system. The General Assembly affirms the state constitution's recognition of water rights as a private usufructuary property right, and this article is not intended to restrict the ability of the holder of a water right to use or to dispose of that water right in any manner permitted under Colorado law. (2) The General Assembly affirms the protections for contractual and property rights recognized by the contract and takings protections under the state constitution and related statutes. This article shall not be implemented in any way that would diminish, impair, or cause injury to any property or contractual right created by intergovernmental agreements, contracts, stipulations among parties to water cases, terms and conditions in water decrees, or any other similar document related to the allocation or use of water. This article shall not be construed to supersede, abrogate, or cause injury to vested water rights or decreed conditional water rights. The General Assembly affirms that this article does not impair,

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limit, or otherwise affect the rights of persons or entities to enter into agreements, contracts, or memoranda of understanding with other persons or entities relating to the appropriation, movement, or use of water under other provisions of law.

- c) The water activity meets the provisions of Section 37-75-104(2), Colorado Revised Statutes.² The Basin Roundtable Chairs shall include in their approval letters for particular WSRA grant applications a description of how the water activity will assist in meeting the water supply needs identified in the basin roundtable's consumptive and/or non-consumptive needs assessments.

N/A

- d) Matching Requirement: For requests from the Statewide Fund, the applicants is required to demonstrate a **20 percent** (or greater) match of the request from the Statewide Account. Statewide requests must also include a minimum match of **5 percent** of the total grant amount from Basin Funds. Sources of matching funds include but are not limited to Basin Funds, in-kind services, funding from other sources, and/or direct cash match. Past expenditures directly related to the project may be considered as matching funds if the expenditures occurred within 9 months of the date the application was submitted to the CWCB. Please describe the source(s) of matching funds. (NOTE: These matching funds should also be reflected in your Detailed Budget in **Exhibit A** of this application)

² 37-75-104 (2)(c). Using data and information from the Statewide Water Supply Initiative and other appropriate sources and in cooperation with the on-going Statewide Water Supply Initiative, develop a basin-wide consumptive and nonconsumptive water supply needs assessment, conduct an analysis of available unappropriated waters within the basin, and

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propose projects or methods, both structural and nonstructural, for meeting those needs and utilizing those unappropriated waters where appropriate. Basin Roundtables shall actively seek the input and advice of affected local governments, water providers, and other interested stakeholders and persons in establishing its needs assessment, and shall propose projects or methods for meeting those needs. Recommendations from this assessment shall be forwarded to the Interbasin Compact Committee and other basin roundtables for analysis and consideration after the General Assembly has approved the Interbasin Compact Charter.

2. For Applications that include a request for funds from the **Statewide Account**, describe how the water activity/project meets all applicable **Evaluation Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines and repeated below.) Projects will be assessed on how well they meet the Evaluation Criteria. **Please attach additional pages as necessary.**

Evaluation Criteria – the following criteria will be utilized to further evaluate the merits of the water activity proposed for funding from the Statewide Account. In evaluation of proposed water activities, preference will be given to projects that meet one or more criteria from each of the three “tiers” or categories. Each “tier” is grouped in level of importance. For instance, projects that meet Tier 1 criteria will outweigh projects that only meet Tier 3 criteria. WSRA grant requests for projects that may qualify for loans through the CWCB loan program will receive preference in the Statewide Evaluation Criteria if the grant request is part of a CWCB loan/WSRA grant package. For these CWCB loan/WSRA grant packages, the applicant must have a CWCB loan/WSRA grant ratio of 1:1 or higher. Preference will be given to those with a higher loan/grant ratio.

Tier 1: Promoting Collaboration/Cooperation and Meeting Water Management Goals and Identified Water Needs

- a. The water activity addresses multiple needs or issues, including consumptive and/or non-consumptive needs, or the needs and issues of multiple interests or multiple basins. This can be demonstrated by obtaining letters of support from other basin roundtables (in addition to an approval letter from the sponsoring basin).
- b. The number and types of entities represented in the application and the degree to which the activity will promote cooperation and collaboration among traditional consumptive water interests and/or nonconsumptive interests, and if applicable, the degree to which the water activity is effective in addressing intrabasin or interbasin needs or issues.
- c. The water activity helps implement projects and processes identified as helping meet Colorado’s future water needs, and/or addresses the gap areas between available water supply and future need as identified in SWSI or a roundtable’s basin-wide water needs assessment.

Tier 2: Facilitating Water Activity Implementation

- d. Funding from this Account will reduce the uncertainty that the water activity will be implemented. For this criterion the applicant should discuss how receiving funding from the Account will make a significant difference in the implementation of the water activity (i.e., how will receiving funding enable the water activity to move forward or the inability obtaining funding elsewhere).
- e. The amount of matching funds provided by the applicant via direct contributions, demonstrable in-kind contributions, and/or other sources demonstrates a significant & appropriate commitment to the project.

Tier 3: The Water Activity Addresses Other Issues of Statewide Value and Maximizes Benefits

- f. The water activity helps sustain agriculture & open space, or meets environmental or recreational needs.

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-
- g. The water activity assists in the administration of compact-entitled waters or addresses problems related to compact entitled waters and compact compliance and the degree to which the activity promotes maximum utilization of state waters.
 - h. The water activity assists in the recovery of threatened and endangered wildlife species or Colorado State species of concern.
 - i. The water activity provides a high level of benefit to Colorado in relationship to the amount of funds requested.
 - j. The water activity is complimentary to or assists in the implementation of other CWCB programs.

Continued: Explanation of how the water activity/project meets all applicable **Evaluation Criteria**.

Please attach additional pages as necessary.

Repairing the Thompson creek project will make sure that the late water needs of shareholders are met thereby protecting the water right. The project will be funded by USDA, Colorado River Water Conservation District, cash and in kind (miles and time) from shareholders. The water is needed to preserve the ranches and farms that rely on the The New Multa Trina Ditch Company for irrigation water.

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Part IV. – Required Supporting Material Suggested Format for Scope of Work

1. **Water Rights, Availability, and Sustainability** – This information is needed to assess the viability of the water project or activity. Please provide a description of the water supply source to be utilized, or the water body to be affected by, the water activity. This should include a description of applicable water rights, and water rights issues, and the name/location of water bodies affected by the water activity.

The New Multa Trina Ditch Company 32 cfs were made absolute on August 1, 1937 for the ditch company to adjudicate the Thompson Creek diversion.

2. Please provide a brief narrative of any related studies or permitting issues.

US Forest service will be notified of the starting date and kept up on progress of the project as needed.

3. Statement of Work, Detailed Budget, and Project Schedule

The statement of work will form the basis for the contract between the Applicant and the State of Colorado. In short, the Applicant is agreeing to undertake the work for the compensation outlined in the statement of work and budget, and in return, the State of Colorado is receiving the deliverables/products specified. **Please note that costs incurred prior to execution of a contract or purchase order are not subject to reimbursement.** All WSRA funds are disbursed on a reimbursement basis after review invoices and appropriate backup material.

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Please provide a detailed statement of work using the template in Exhibit A. Additional sections or modifications may be included as necessary. Please define all acronyms and include page numbers.

REPORTING AND FINAL DELIVERABLE

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the statement of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

PAYMENT

Payment will be made based on actual expenditures and invoicing by the applicant. Invoices from any other entity (i.e. subcontractors) cannot be processed by the State. The request for payment must include a description of the work accomplished by major task, and estimate of the percent completion for individual tasks and the entire water activity in relation to the percentage of budget spent, identification of any major issues and proposed or implemented corrective actions. The last 5 percent of the entire water activity budget will be withheld until final project/water activity documentation is completed. All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and help promote the development of a common technical platform.

The above statements are true to the best of my knowledge:
--

Signature of Applicant:

Print Applicant's Name:

Project Title:

Return an electronic version (hardcopy may also be submitted) of this application to:

Greg Johnson – WSRA Application

Colorado Water Conservation Board

Water Supply Reserve Account – Application Form

Revised December 2011

1580 Logan Street, Suite 200

Denver, CO 80203 gregory.johnson@state.co.us

Exhibit A
Statement of Work

WATER ACTIVITY NAME – North Thompson Ditch

GRANT RECIPIENT – The New Multa Trina Ditch Company

FUNDING SOURCE – Colorado River Basin Round Table

INTRODUCTION AND BACKGROUND

Provide a brief description of the project. (Please limit to **no more than 200 words**; this will be used to inform reviewers and the public about your proposal)

Approximately 2 to 3 years ago the US Forest Service clear cut the timber above the north collection ditch that is part of the Thompson diversion ditch system. The ditch company believes that the combination of the clear cut and the above average rainfall in the month of May 2015 caused the ground to slip taking out approximately 500 feet of ditch.

The New Multa Trina Ditch Company is going to pipe 500 feet of ditch with an inverted syphon. The cost of the pipe and the welding for the syphon is \$96,000.00. The contractor fees and other labor costs would bring the project up to approximately \$160,000.00. The work will done between July 1, 2016 and November 1, 2016.

The outcome from the slide would cause the shareholders to loss one to two weeks of water to irrigate their agriculture land. Piping would also cut down the loss to evaporation.

OBJECTIVES

List the objectives of the project

1. The shareholder of the ditch company want to avoid losing the amount of water delivered to them at a very crucial time of year due to not being able to transfer the water from the north drainage that is carried by the north collection ditch of the Thompson Creek diversion project.
2. The Long term goals of the TNMTDC are to pipe as much of the ditch as can be so to reduce water loss. When there are needed repairs pipe will be used if feasible.

TASK 1

Description of Task

To site preparation and installation of the inverted syphon.

Method/Procedure

Contract with selected Construction contractor for dirt work and contract with the pipe company to deliver and weld the pipe.

Deliverable

To follow designs made by the NRCS, so the engineering and specification are up to codes and to leave the area looking a natural as possible.

REPORTING AND FINAL DELIVERABLE

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the statement of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

BUDGET

Provide a detailed budget by task including number of hours and rates for labor and unit costs for other direct costs (i.e. mileage, \$/unit of material for construction, etc.). A detailed and perfectly balanced budget that shows all costs is required for the State's contracting and purchase order processes. Sample budget tables are provided below.

project	cost	Grants from who	How much applied for
Mobilization	32,000	USDA Farm Services	\$85,000.
Site preparation	20,000.	Colorado River Water Conservation District	\$40,000.
Pipe and delivery	Delivery of pipe in mobilization 85,000.	WSRA	\$20,000
Welding of pipe & bear screen	15,000	Extra assessment charged to and paid by shareholders	\$10,000
Reclamation of site	8,000.	Mileage and time of Shareholders	\$ 5,000.
Total	\$160,000.		160,000. ****

**** Grant application have not been approved or received as of 3/2/2016

SCHEDULE

Provide a project schedule including key milestones for each task and the completion dates or time period from the Notice to Proceed (NTP). This dating method allows flexibility in the event of potential delays from the procurement process. Sample schedules are provided below. Please note that these schedules are examples and will need to be adapted to fit each individual application.

Example 1

Task	Start Date	Finish Date
1	July 1, 2016	November 1, 2016

NTP = Notice to Proceed

PAYMENT

Payment will be made based on actual expenditures and invoicing by the applicant. Invoices from any other entity (i.e. subcontractors) cannot be processed by the State. The request for payment must include a description of the work accomplished by major task, and estimate of the percent completion for individual tasks and the entire water activity in relation to the percentage of budget spent, identification of any major issues and proposed or implemented corrective actions. The last 5 percent of the entire water activity budget will be withheld until final project/water activity documentation is completed. All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and help promote the development of a common technical platform.

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
July 20-21, 2016
Agenda Item 16(c)

Applicant & Fiscal Agent: Surface Creek Ditch and Reservoir Company
Water Activity Name: Eggleston Dam Outlet Repair Project
Water Activity Purpose: Multipurpose
County: Delta
Drainage Basin: Gunnison
Water Source: Surface Creek
Amount Requested/Source of Funds: \$46,911 Gunnison Basin Account
\$46,911 Total Basin Account request

Matching Funds: Applicant Match: \$31,947 = 40% of the total project cost of \$78,858
(refer to *Funding Summary/Matching Funds* section below)

Staff Recommendation:

Staff recommends approval of up to \$46,911 from the Gunnison Basin Account to help fund the project titled: Eggleston Dam Outlet Repair Project.

Water Activity Summary: WSRA funds, if approved, will help fund the project titled: Eggleston Dam Outlet Repair Project. Eggleston Reservoir is located on the Grand Mesa. Eggleston Reservoir is one of 16 reservoirs operated by the Surface Creek Ditch and Reservoir Company. The company was formed and incorporated in 1886. It is a stock company with 810 shares owned by 283 shareholders. Eggleston holds 2,555 acre feet of water. Impoundment rights totaling 2,555 acre feet in Eggleston Reservoir were obtained through legal appropriations between 1886 and 1937.

The reservoir services are extended to the south/southeast of the reservoir approximately 18 miles along Kiser Creek, Big Ditch and Surface Creek Ditch, which run through the town of Cedaredge, Colorado. Irrigated acreage within the service area is primarily used to grow fruit and row crops as well as limited livestock watering. The existing outlet pipe was installed in 1949.

Concerns were cited after video inspection of the existing pipe showed rust at the welded joints where the original bituminous coating is missing. The pipe has several joints that are corroded and coated with calcium deposits. The joint at approximately 90 feet from the downstream end was observed leaking clear water. It was noticed a few years ago and verified through video inspection that the pipe that was initially installed in 1949 has several corroded joints and about 90 feet from the downstream end a leak was observed. Since the pipe itself does not show any signs of structural weakness, distortion or collapse in any of the video inspection this pipe is an excellent candidate for rehabilitation using a Cured-In-Place-Pipe (CIPP) liner.

The objective of this project is to install the CIPP liner into the current downstream outlet pipe to preserve the integrity of the pipe. This will preserve the decrees and continue to provide the allocated water to agriculture and municipalities.

Discussion: This project meets the measurable objectives and action items in the Gunnison Basin Implementation Plan, including the rehabilitation of existing reservoirs on the Grand Mesa.

This project also meets additional critical actions identified in the Critical Action Plan (Chapter 10) of Colorado's Water Plan:

- **D3:** Provide grants, loans, and technical support to update and improve Colorado's aging agricultural infrastructure, especially where improvements provide multiple benefits.
- **E2:** Prioritize grants and loans to support the implementation of BIP-identified multipurpose projects and methods, taking into consideration locally identified geographic and seasonal gaps.

Issues/Additional Needs: No additional issues or needs were identified.

Threshold and Evaluation Criteria: The application meets all four Threshold Criteria.

Tier 1-3 Evaluation Criteria: n/a

Funding Summary/Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
Surface Creek	\$31,947	n/a	\$31,947
Subtotal Matching Funds	\$31,947	\$0	\$31,947
WSRA Gunnison Basin Account	\$46,911	n/a	\$46,911
Total Project Costs	\$78,858	\$0	\$78,858

CWCB Project Manager: Brent Newman

All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and will help promote the development of a common technical platform. In accordance with the revised WSRA Criteria and Guidelines, staff would like to highlight additional reporting and final deliverable requirements. The specific requirements are provided below.

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the scope of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

Engineering: All engineering work (as defined in the Engineers Practice Act (§12-25-102(10) C.R.S.)) performed under this grant shall be performed by or under the responsible charge of professional engineer licensed by the State of Colorado to practice Engineering.

*The Gunnison Basin Roundtable
501 Palmer Street
Delta, CO 81416*

June 14, 2016

Mr. Brent Newman
Water Supply Management Section
COLORADO WATER CONSERVATION BOARD
1313 Sherman St., Room 718
Denver, CO 80203

Re: WSRA Grant Request: Surface Creek Ditch and Reservoir Company – Eggleston Dam Outlet Repair Project

Dear Mr. Newman:

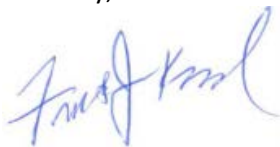
This letter is presented to advise you that the grant application submitted by the Surface Creek Ditch and Reservoir Company for \$46,911 from Basin Account funds from the Water Supply Reserve Account for the Eggleston Dam Outlet Repair project was reviewed by the Gunnison Basin Roundtable and its Project Screening Committee and was approved by a unanimous vote of the Gunnison Basin Roundtable during our meeting on June 6, 2016.

This water activity meets the provisions of Section 37-75-104(2), Colorado Revised Statutes. The requirements/language from the statute is provided in Part 3 of the Criteria and Guidelines.

This activity benefits water use in the Cedaredge and Orchard City areas through the renovation and improvement of an existing dam and reservoir.

Thank you for your help in processing this WSRA grant request.

Sincerely,

A handwritten signature in blue ink, appearing to read "Frank J. Kugel".

Frank J. Kugel
Vice Chair

cc: Hugh Sanburg (e-mail)
Tom Alvey (e-mail)
Craig Godbout (e-mail)



COLORADO WATER CONSERVATION BOARD



WATER SUPPLY RESERVE ACCOUNT APPLICATION FORM

Today's Date: 03/31/2016

Eggleston Dam Outlet Repair Project

Name of Water Activity/Project

Surface Creek Ditch and Reservoir Company

Name of Applicant

Gunnison Basin
Roundtable

Amount from Statewide Account:

Amount from Basin Account(s):

Total WSRA Funds Requested:

46,911.00

46,911.00

Approving Basin Roundtable(s)

(If multiple basins specify amounts in parentheses.)

FEIN:84-0458460

Application Content

Application Instructions	page 2
Part I – Description of the Applicant	page 3
Part II – Description of the Water Activity	page 5
Part III – Threshold and Evaluation Criteria	page 7
Part IV – Required Supporting Material	
Water Rights, Availability, and Sustainability	page 10
Related Studies	page 10
Signature Page	page 12

Required Exhibits

- A. Statement of Work, Budget, and Schedule
- B. Project Map
- C. As Needed (i.e. letters of support, photos, maps, etc.)

Appendices – Reference Material

- 1. Program Information
- 2. Insurance Requirements
- 3. WSRA Standard Contract Information (Required for Projects Over \$100,000)
- 4. W-9 Form (Required for All Projects Prior to Contracting)

Instructions

To receive funding from the Water Supply Reserve Account (WSRA), a proposed water activity must be approved by the local Basin Roundtable **AND** the Colorado Water Conservation Board (CWCBC). The process for Basin Roundtable consideration and approval is outlined in materials in Appendix 1.

Once approved by the local Basin Roundtable, the applicant should submit this application **with a detailed statement of work including budget and schedule as Exhibit A** to CWCBC staff by the application deadline.

WSRA applications are due with the roundtable letter of support 60 calendar days prior to the bi-monthly Board meeting at which it will be considered. Board meetings are held in January, March, May, July, September, and November. Meeting details, including scheduled dates, agendas, etc. are posted on the CWCBC website at: <http://cwcb.state.co.us> Applications to the WSRA Basin Account are considered at every board meeting, while applications to the WSRA Statewide Account are only considered at the March and September board meetings.

When completing this application, the applicant should refer to the WSRA Criteria and Guidelines available at: <http://cwcb.state.co.us/LoansGrants/water-supply-reserve-account-grants/Documents/WSRACriteriaGuidelines.pdf>. In addition, the applicant should also refer to the [Supplemental Scoring Matrix](#) applied to Evaluation Criteria Tiers 1-3 for Statewide Account requests .

The application, statement of work, budget, and schedule **must be submitted in electronic format** (Microsoft Word or text-enabled PDF are preferred) and can be emailed or mailed on a disk to:

Craig Godbout - WSRA Application
Colorado Water Conservation Board
1313 Sherman St., Room 721
Denver, CO 80203
Craig.godbout@state.co.us

If you have questions or need additional assistance, please contact Craig Godbout at: 303-866-3441 x3210 or craig.godbout@state.co.us.

Part I. - Description of the Applicant (Project Sponsor or Owner);

1.	Applicant Name(s):	Surface Creek Ditch & Reservoir Company		
	Mailing address:	19709 2325 Road Cedaredge, CO 81413		
	FEIN #:	84-0458460		
	Primary Contact:	Keith Waibel	Position/Title:	President
	Email:			
	Phone Numbers:	Cell: 970-201-6481	Office:	
	Alternate Contact:	Loree Gutierrez	Position/Title:	Secretary
	Email:	gutierrez646@hotmail.com		
	Phone Numbers:	Cell: 970-234-3804	Office:	

2. Eligible entities for WSRA funds include the following. What type of entity is the Applicant?

- ☐ Public (Government) – municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities and the local entity should be the grant recipient. Federal agencies are eligible, but only if they can make a compelling case for why a local partner cannot be the grant recipient.
- ☐ Public (Districts) – authorities, Title 32/special districts, (conservancy, conservation, and irrigation districts), and water activity enterprises.
- ☒ Private Incorporated – mutual ditch companies, homeowners associations, corporations.
- ☐ Private individuals, partnerships, and sole proprietors are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
- ☐ Non-governmental organizations – broadly defined as any organization that is not part of the government.

3. Provide a brief description of your organization

Surface Creek Ditch & Reservoir Company is a non-profit company that was formed in 1886 and incorporation took place on 10/23/1886. It is a stock company with 283 shareholders and 810 shares of stock. It services 16 reservoirs with a total of 10,0635 acre feet serving the Surface Creek Valley in Delta County. The company has a board of 7 directors, elected every two years comprised of shareholders.

Eggleston Reservoir is a portion of the Surface Creek Ditch and Reservoir Company. Eggleston holds 2,555 acre feet of water. The dam was first constructed in 1886. The existing outlet pipe was installed in 1949.

4. If the Contracting Entity is different then the Applicant (Project Sponsor or Owner) please describe the Contracting Entity here.

Not Applicable

5. Successful applicants will have to execute a contract with the CWCB prior to beginning work on the portion of the project funded by the WSRA grant. In order to expedite the contracting process the CWCB has established a standard contract with provisions the applicant must adhere to. A link to this standard contract is included in Appendix 3. Please review this contract and check the appropriate box.

☒

The Applicant will be able to contract with the CWCB using the Standard Contract Surface Creek has the fund to perform a portion of the project. The company would prefer not to have to obtain another CWCB loan as the company already has one in place on another reservoir.

☐

The Applicant has reviewed the standard contract and has some questions/issues/concerns. Please be aware that any deviation from the standard contract could result in a significant delay between grant approval and the funds being available.

6. The Tax Payer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect the applicant.

Tabor does not affect mutual ditch companies.

Part II. - Description of the Water Activity/Project

1. What is the primary purpose of this grant application? (Please check only one)

☒ Nonconsumptive (Environmental or Recreational)

☒ Agricultural

☒ Municipal/Industrial

☐ Needs Assessment

☐ Education

☐ Other

Explain:

2. If you feel this project addresses multiple purposes please explain.

Non Consumptive Use

Environmental: At present trout occupy the reservoir.

Recreational: Camping and fishing are available.

Agriculture: This project will protect and preserve a vital water storage structure on Grand Mesa. It will also help to insure that acreage irrigated by this source remain in agriculture and not dry land or urban sprawl.

Municipal: the town of Cedaredge owns approximately 2% of stock and the town of Orchard City owns approximately 2% of stock. It has not been classified as municipal, but could be used in a time of emergency.

3. Is this project primarily a study or implementation of a water activity/project? (Please check only one)

☐ Study

☒ Implementation

4. To catalog measurable results achieved with WSRA funds can you provide any of the following numbers?

New Storage Created (acre-feet)

New Annual Water Supplies Developed, Consumptive or Nonconsumptive (acre-feet)

2,555AF Existing Storage Preserved or Enhanced (acre-feet)

Length of Stream Restored or Protected (linear feet)

164 ft. Length of Pipe/Canal Built or Improved (linear feet)

Efficiency Savings (acre-feet/year OR dollars/year – **circle one**)

Area of Restored or Preserved Habitat (acres)

Other -- Explain:

4. To help us map WSRA projects please include a map (Exhibit B) and provide the general coordinates below:

Latitude:

39.044436

Longitude:

107.94066

5. Please provide an overview/summary of the proposed water activity (no more than one page). Include a description of the overall water activity and specifically what the WSRA funding will be used for. A full **Statement of Work** with a detailed budget and schedule is required as **Exhibit A** of this application.

Summary of Project and use of funds.

The purposed project would entail the following:

--The site will be cleaned so that all points of access are open and accessible.

---All internal debris will be removed.

---An area for all debris will be designated.

---A temporary cofferdam or upstream diversion including any pumps for diverting the flow of water around the designated pipe will be made.

---An inspection of the pipe will be performed after it is cleaned to detect any impediments that may prevent proper installation of the CIPP.

---The contractor shall install a hydrophilic type water stop or equivalent at each end of the existing conduit prior to installation to deter water infiltration and deterioration at the ends of the CIPP liner.

---If there are any obstructions they will be removed.

---The CIPP will be installed.

---The area around the pipe will be restored after the project is completed.

Part III. – Threshold and Evaluation Criteria

1. Describe how the water activity meets these **Threshold Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines.)

a) The water activity is consistent with Section 37-75-102 Colorado Revised Statutes.¹

This repair project would prevent any restrictions from being applied to this reservoir.

b) The water activity underwent an evaluation and approval process and was approved by the Basin Roundtable (BRT) and the application includes a description of the results of the BRT's evaluation and approval of the activity. At a minimum, the description must include the level of agreement reached by the roundtable, including any minority opinion(s) if there was not general agreement for the activity. The description must also include reasons why general agreement was not reached (if it was not), including who opposed the activity and why they opposed it. Note- If this information is included in the letter from the roundtable chair simply reference that letter.

This project has been classified in the Tier 1 category by the Gunnison Round Table protecting senior water.

¹ 37-75-102. Water rights - protections. (1) It is the policy of the General Assembly that the current system of allocating water within Colorado shall not be superseded, abrogated, or otherwise impaired by this article. Nothing in this article shall be interpreted to repeal or in any manner amend the existing water rights adjudication system. The General Assembly affirms the state constitution's recognition of water rights as a private usufructuary property right, and this article is not intended to restrict the ability of the holder of a water right to use or to dispose of that water right in any manner permitted under Colorado law. (2) The General Assembly affirms the protections for contractual and property rights recognized by the contract and takings protections under the state constitution and related statutes. This article shall not be implemented in any way that would diminish, impair, or cause injury to any property or contractual right created by intergovernmental agreements, contracts, stipulations among parties to water cases, terms and conditions in water decrees, or any other similar document related to the allocation or use of water. This article shall not be construed to supersede, abrogate, or cause injury to vested water rights or decreed conditional water rights. The General Assembly affirms that this article does not impair, limit, or otherwise affect the rights of persons or entities to enter into agreements, contracts, or memoranda of understanding with other persons or entities relating to the appropriation, movement, or use of water under other provisions of law.

- c) The water activity meets the provisions of Section 37-75-104(2), Colorado Revised Statutes.² The Basin Roundtable Chairs shall include in their approval letters for particular WSRA grant applications a description of how the water activity will assist in meeting the water supply needs identified in the basin roundtable's consumptive and/or non-consumptive needs assessments.

- d) Matching Requirement: For requests from the **Statewide Fund**, the applicants will be required to demonstrate a **25 percent** (or greater) match of the total grant request from the other sources, including by not limited to Basin Funds. A minimum match of 5% of the total grant amount shall be from Basin funds. A minimum match of 5% of the total grant amount must come from the applicant or 3rd party sources. Sources of matching funds include but are not limited to Basin Funds, in-kind services, funding from other sources, and/or direct cash match. Past expenditures directly related to the project may be considered as matching funds if the expenditures occurred within 9 months of the date the contract or purchase order between the applicant and the State of Colorado is executed. Please describe the source(s) of matching funds. (NOTE: These matching funds should also be reflected in your Detailed Budget in **Exhibit A** of this application)

Surface Creek Ditch and Reservoir-----	31,947.00	40%
WSRA Basin Acct-----	46,911.00	60%
	78,858.00	100%

The WSRA funding is requested in order to perform the aforementioned project. Surface Creek Ditch and Reservoir Company (SCDR) is requesting approximately 69 % funding of this project from WSRA. The company currently has a loan with the CWCB from a prior project with a balance of and \$192,070.70 annual loan payments of \$13,172.93. Another loan could be obtained through the CWCB, but with another increase in assessments along with the usual operating expenses would be a hardship on the shareholders. The company did increase their assessments this year to handle covering a portion of the total cost of the project. For the company to come up with 100% of the cost of the project would make the assessments unreasonable for the shareholders. Another large loan will

² 37-75-104 (2)(c). Using data and information from the Statewide Water Supply Initiative and other appropriate sources and in cooperation with the on-going Statewide Water Supply Initiative, develop a basin-wide consumptive and nonconsumptive water supply needs assessment, conduct an analysis of available unappropriated waters within the basin, and propose projects or methods, both structural and nonstructural, for meeting those needs and utilizing those unappropriated waters where appropriate. Basin Roundtables shall actively seek the input and advice of affected local governments, water providers, and other interested stakeholders and persons in establishing its needs assessment, and shall propose projects or methods for meeting those needs. Recommendations from this assessment shall be forwarded to the Interbasin Compact Committee and other basin roundtables for analysis and consideration after the General Assembly has approved the Interbasin Compact Charter.

cause this project to not be done, most likely resulting in restrictions placed on the reservoir. Funding and performance of this project will increase and preserve storage.

2. For Applications that include a request for funds from the **Statewide Account**, describe how the water activity/project meets all applicable **Evaluation Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines and repeated below.) Projects will be assessed on how well they meet the Evaluation Criteria. **Please attach additional pages as necessary.**

Evaluation Criteria – the following criteria will be utilized to further evaluate the merits of the water activity proposed for funding from the Statewide Account. In evaluation of proposed water activities, preference will be given to projects that meet one or more criteria from each of the three “tiers” or categories. Each “tier” is grouped in level of importance. For instance, projects that meet Tier 1 criteria will outweigh projects that only meet Tier 3 criteria. The applicant should also refer to the Supplemental Scoring Matrix applied to Evaluation Criteria Tiers 1-3 for Statewide Account requests. WSRA grant requests for projects that may qualify for loans through the CWCB loan program will receive preference in the Statewide Evaluation Criteria if the grant request is part of a CWCB loan/WSRA grant package. For these CWCB loan/WSRA grant packages, the applicant must have a CWCB loan/WSRA grant ratio of 1:1 or higher. Preference will be given to those with a higher loan/grant ratio.

Tier 1: Promoting Collaboration/Cooperation and Meeting Water Management Goals and Identified Water Needs

- a. The water activity addresses multiple needs or issues, including consumptive and/or non-consumptive needs, or the needs and issues of multiple interests or multiple basins. This can be demonstrated by obtaining letters of support from other basin roundtables (in addition to an approval letter from the sponsoring basin).
- b. The number and types of entities represented in the application and the degree to which the activity will promote cooperation and collaboration among traditional consumptive water interests and/or non-consumptive interests, and if applicable, the degree to which the water activity is effective in addressing intrabasin or interbasin needs or issues.
- c. The water activity helps implement projects and processes identified as helping meet Colorado’s future water needs, and/or addresses the gap areas between available water supply and future need as identified in SWSI or a roundtable’s basin-wide water needs assessment.

Tier 2: Facilitating Water Activity Implementation

- d. Funding from this Account will reduce the uncertainty that the water activity will be implemented. For this criterion the applicant should discuss how receiving funding from the Account will make a significant difference in the implementation of the water activity (i.e., how will receiving funding enable the water activity to move forward or the inability obtaining funding elsewhere).
- e. The amount of matching funds provided by the applicant via direct contributions, demonstrable in-kind contributions, and/or other sources demonstrates a significant & appropriate commitment to the project.

Tier 3: The Water Activity Addresses Other Issues of Statewide Value and Maximizes Benefits

- f. The water activity helps sustain agriculture & open space, or meets environmental or recreational needs.
- g. The water activity assists in the administration of compact-entitled waters or addresses problems related to compact entitled waters and compact compliance and the degree to which the activity promotes maximum utilization of state waters.
- h. The water activity assists in the recovery of threatened and endangered wildlife species or Colorado State species of concern.
- i. The water activity provides a high level of benefit to Colorado in relationship to the amount of funds requested.
- j. The water activity is complimentary to or assists in the implementation of other CWCB programs.

Continued: Explanation of how the water activity/project meets all applicable **Evaluation Criteria**.

Please attach additional pages as necessary.

Evaluation Criteria

Tier 1

- A) The repair project will insure a continued supply of water for agriculture in the Surface Creek Valley.
- B) Surface Creek Ditch & Reservoir is the applying entity. The company is also a member of the Grand Mesa Water Users Association, which administers all storage water on Grand Mesa.
- C) The water activities will help implement a repair project which will insure the continued storage and use of Colorado water.

Tier 2

- D) Funding from WSRA will insure that this repair takes place. The reservoir company could obtain another large loan from CWCB but it is very doubtful that the stockholders could handle the higher assessments needed to service an additional large loan.
- E) Past history shows that the company is committed to the upkeep of the reservoirs. The increase in assessments this year to help build the funds to pay 30% has already been done. The company has their percentage of the funds needed to put toward this project.

Tier 3

- F) This activity will preserve agricultural land in the Surface Creek Valley, thus helping to keep open space.
- G) This activity would promote the maximum utilization of state water.
- H) The reservoir is usually stocked with native fish and used by fisherman and recreation all year.
- I) The level of benefit is perpetual when the funds are used to preserve Colorado water rights.

Part IV. – Required Supporting Material

1. **Water Rights, Availability, and Sustainability** – This information is needed to assess the viability of the water project or activity. Please provide a description of the water supply source to be utilized, or the water body to be affected by, the water activity. This should include a description of applicable water rights, and water rights issues, and the name/location of water bodies affected by the water activity.

#2	1272AF	9-6-1886
#23	768AF	1-1-1900
#H-29	515AF	9-29-1937

2. Please provide a brief narrative of any related studies or permitting issues.

An inspection of the interior of the outlet pipe conducted by a private contractor in September of 2014 and a video inspection of the pipe’s interior was done and an inspection report made by the State Dam Safely Engineer in July of 2015. The video shows the pipe is rusted at the welded joints and several joints are corroded and coated with calcium deposits most likely form water infiltration. The joint at approximately 90 feet from the downstream end was observed leaking clear water. The pipe does not show signs of structural weakness, distortion or collapse based on the video inspection.

- 3 . **Statement of Work, Detailed Budget, and Project Schedule**

The statement of work will form the basis for the contract between the Applicant and the State of Colorado. In short, the Applicant is agreeing to undertake the work for the compensation outlined in the statement of work and budget, and in return, the State of Colorado is receiving the deliverables/products specified. **Please note that costs incurred prior to execution of a contract or purchase order are not subject to reimbursement.** All WSRA

REPORTING AND FINAL DELIVERABLE

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the statement of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

PAYMENT

Payment will be made based on actual expenditures and invoicing by the applicant. Invoices from any other entity (i.e. subcontractors) cannot be processed by the State. The request for payment must include a description of the work accomplished by major task, and estimate of the percent completion for individual tasks and the entire water activity in relation to the percentage of budget spent, identification of any major issues and proposed or implemented corrective actions. The last 10 percent of the entire water activity budget will be withheld until final project/water activity documentation is completed. All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and help promote the development of a common technical platform.

The above statements are true to the best of my knowledge:

Signature of Applicant: Keith Waibel

Print Applicant's Name: Surface Creek Ditch & Reservoir Company

Project Title: Eggleston Dam Outlet Repair Project

Date: 03/31/2016

Return an electronic version (hardcopy may also be submitted) of this application to:

Craig Godbout – WSRA Application
Colorado Water Conservation Board
1313 Sherman St., Room 721
Denver, CO 80203
303-866-3441, ext. 3210 (office)
303-547-8061 (cell)
craig.godbout@state.co.us

funds are disbursed on a reimbursement basis after review invoices and appropriate backup material.

Please provide a detailed statement of work using the template in Exhibit A. Additional sections or modifications may be included as necessary. Please define all acronyms and include page numbers.

Statement of Work

Date: 4-1-2016

Water Activity Name: Surface Creek Ditch & Reservoir Company-Eggleston Outlet Repair Project

Grant Recipient: Surface Creek Ditch & Reservoir

Funding Source: CWCB Water Supply Reserve Account

Introduction and Background: Eggleston Reservoir is located on the Grand Mesa. It was noticed a few years ago and verified through video inspection that the pipe that was initially installed in 1949 has several corroded joints and about 90 feet from the downstream end a leak was observed. Since the pipe itself does not show any signs of structural weakness, distortion or collapse in any of the video inspection this pipe is an excellent candidate for rehabilitation using a Cured-In-Place-Pipe (CIPP) liner.

Objectives: The objective of this project is to install the CIPP liner into the current downstream outlet pipe to preserve the integrity of the pipe. This will preserve the decrees and continue to provide the allocated water to agriculture and municipalities.

History: Eggleston Reservoir is one of 16 reservoirs ran by the Surface Creek Ditch and Reservoir Company. The company was formed and incorporated in 1886. It is a stock company with 810 shares owned by 283 shareholders. Eggleston holds 2,555 acre feet of water. Impoundment rights totaling 2,555 acre feet in Eggleston Reservoir were obtained through legal appropriations between 1886 and 1937.

The reservoir services are extended to the south/southeast of the reservoir approximately 18 miles along Kiser Creek, Big Ditch and Surface Creek Ditch, which run through the town of Cedaredge, Colorado. Irrigated acreage within the service area is primarily used to grow fruit and row crops as well as limited livestock watering.

The existing outlet pipe was installed in 1949. Concerns were cited after video inspection of the existing pipe showed rust at the welded joints where the original bituminous coating is missing. The pipe has several joints that are corroded and coated with calcium deposits. The joint at approximately 90 feet from the downstream end was observed leaking clear water. The pipe does not show any structural weakness, distortion or collapse. It is a good candidate for the CIPP (Cured-In-Place-Pipe) liner.

If this pipe is not repaired there is a possibility of water infiltrating through the dam into the pipe causing significant hazard to the safety of the dam and the likelihood of a no fill restriction being imposed on the reservoir.

Schedule of Work and Budget:

<u>Task</u>	<u>Cost</u>	<u>Funding Source</u>	<u>Timing</u>
Video Inspection	450.00	SCDR	2014 Paid
Preliminary Engineering	450.00	SCDR	2015 Paid
Engineering	12,000.00	SCDR	Sept 2016

Pre & Post Project Construction	5,000.00	SCDR (2269.00) Basin (2731.00)	Sept 2016
Mobility	14,410.00	Basin (6132.00) SCDR(8278.00)	Sept 2016
Video Inspection	500.00	SCDR	Sept 2016
Installation of Liner	38,048.00	Basin	Sept 2016
Contingency	<u>8,000.00</u> 78,858.00	SCDR	Sept 2016

Funding Source Summary
 WSRA Basin Acct-----46,911.00-----60 %
 SCDR-----31,947.00-----40 %
78,858.00-----100%

Engineer report and Probable construction costs:
 (See attached forms)

Insurance Requirements:

Surface Creek Ditch and Reservoir does not carry insurance. We carried an insurance policy for years, through the Grand Mesa Water Users Association, but it was dropped because it was ineffective. The Grand Mesa Water Users Association obtained a waiver of insurance requirements with CWCB. The worker's compensation, liability etc. will be required of all contractors and documented.

Dam Inspection:

(See Attached forms)

This project will be performed under the operations and maintenance plan with the Forrest Service.

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
July 20-21, 2016
Agenda Item 16(d)

Applicant & Fiscal Agent: Marcot Park Ditch and Reservoir Company
Water Activity Name: Marcot Dam Outlet Repair
Water Activity Purpose: Agricultural
County: Delta
Drainage Basin: Gunnison
Water Source: Marcot Creek
Amount Requested/Source of Funds: \$49,649 Gunnison Basin Account
\$49,649 Total Basin Account request
Matching Funds: Applicant Match: \$37,461 = 43% of the total project cost of \$87,110
(refer to *Funding Summary/Matching Funds* section below)

Staff Recommendation:

Staff recommends approval of up to \$49,649 from the Gunnison Basin Account to help fund the project titled: Marcot Dam Outlet Repair.
--

Water Activity Summary: WSRA funds, if approved, will help fund the project titled: Marcot Dam Outlet Repair. Marcot Park Ditch and Reservoir Company (MPDRC) has embarked on a long-term effort to upgrade the aging earth-compacted Marcot Dam located on the Grand Mesa. In addition to the maintenance requirements indicated by periodic inspection by Colorado Dam Safety, MPDRC is aggressively working to minimize seepage from the reservoir, improve the dam crest, and improve placement or rip-rap. Photo and video examination of the outlet piping during dam inspections revealed however, that the priority should be shifted to rehabilitation of the outlet piping.

The dam's outlet, installed in 1955, is a 20-inch OD steel with ¼ inch wall thickness, bituminous coating within and on the pipe's outer surface. MPDRC, in cooperation with Colorado Dam Safety, has monitored the condition of the pipe via videos and photographic means. Concerns were cited in an inspection report by the Colorado Dam Safety Engineer dated July 16th, 2012, after a video inspection of the outlet pipe. In the summer of 2015, MPDRC engaged an engineering firm (DOWL, LLC) to examine the outlet, the historical data, and determine the best course of action for repair.

The conclusion of the DOWL investigation was that the Marcot outlet is a very good candidate for Cured- in-Place-Pipe (CIPP), a composite liner permanently emplaced by a thermo-curing process inside the host pipe. The report was accompanied by engineering calculations intended for submission to the Colorado Dam Safety Dept. In addition, DOWL submitted an Engineer's Estimate of Probable Cost. All these were delivered to MPDRC on September 15, 2015 for a cost of \$5240.00. This amount was paid from a previous WSRA study grant in the amount of \$ 10,000.00.

Following receipt of the engineering findings, MPDRC met with personnel from Colorado Dam Safety on September 18, 2015 and submitted plans, calculations, the Engineering report and an application to apply a CIPP repair to the Marcot Reservoir outlet. MPDRC then contacted qualified contractors for bids to perform the CIPP repair, a copy of which is included in the appendix.

Discussion: This project meets the measurable objectives and action items in the Gunnison Basin Implementation Plan, including the rehabilitation of existing reservoirs on the Grand Mesa.

This project also meets additional critical actions identified in the Critical Action Plan (Chapter 10) of Colorado's Water Plan:

- **D3:** Provide grants, loans, and technical support to update and improve Colorado's aging agricultural infrastructure, especially where improvements provide multiple benefits.
- **E2:** Prioritize grants and loans to support the implementation of BIP-identified multipurpose projects and methods, taking into consideration locally identified geographic and seasonal gaps.

Issues/Additional Needs: No additional issues or needs were identified.

Threshold and Evaluation Criteria: The application meets all four Threshold Criteria.

Tier 1-3 Evaluation Criteria: n/a

Funding Summary/Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
MPDRC	\$37,461	n/a	\$37,461
Subtotal Matching Funds	\$37,461	\$0	\$37,461
WSRA Gunnison Basin Account	\$49,649	n/a	\$49,649
Total Project Costs	\$87,110		\$87,110

CWCB Project Manager: Brent Newman

All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and will help promote the development of a common technical platform. In accordance with the revised WSRA Criteria and Guidelines, staff would like to highlight additional reporting and final deliverable requirements. The specific requirements are provided below.

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the scope of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

Engineering: All engineering work (as defined in the Engineers Practice Act (§12-25-102(10) C.R.S.)) performed under this grant shall be performed by or under the responsible charge of professional engineer licensed by the State of Colorado to practice Engineering.

The Gunnison Basin Roundtable
501 Palmer Street
Delta, CO 81416

June 14, 2016

Mr. Brent Newman
Water Supply Management Section
COLORADO WATER CONSERVATION BOARD
1313 Sherman St., Room 718
Denver, CO 80203

Re: WSRA Grant Request: Marcot Park Ditch and Reservoir Company – Marcot Dam Outlet Repair

Dear Mr. Newman:

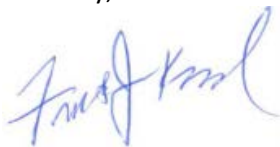
This letter is presented to advise you that the grant application submitted by the Marcot Park and Reservoir Company for \$49,649 from Basin Account funds from the Water Supply Reserve Account for the Marcot Dam Outlet Repair project was reviewed by the Gunnison Basin Roundtable and its Project Screening Committee and was approved by a unanimous vote of the Gunnison Basin Roundtable during our meeting on June 6, 2016.

This water activity meets the provisions of Section 37-75-104(2), Colorado Revised Statutes. The requirements/language from the statute is provided in Part 3 of the Criteria and Guidelines.

This activity benefits water use on the Grand Mesa through the renovation and improvement of an existing dam and reservoir.

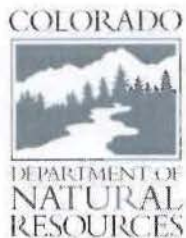
Thank you for your help in processing this WSRA grant request.

Sincerely,

A handwritten signature in blue ink, appearing to read "Frank J. Kugel".

Frank J. Kugel
Vice Chair

cc: Hugh Sanburg (e-mail)
Tom Alvey (e-mail)
Craig Godbout (e-mail)



COLORADO WATER CONSERVATION BOARD



WATER SUPPLY RESERVE ACCOUNT APPLICATION FORM

Today's Date: April 21st, 2016

Marcot Dam Outlet Repair

Name of Water Activity/Project

Marcot Park Ditch and Reservoir Co.

Name of Applicant

Gunnison

Amount from Statewide Account:

\$0

Amount from Basin Account(s):

\$49,649

Total WSRA Funds Requested:

\$49,649

Approving Basin Roundtable(s)

(If multiple basins specify amounts in parentheses.)

FEIN: 46-2062341

Application Content

Application Instructions	page 2
Part I – Description of the Applicant	page 3
Part II – Description of the Water Activity	page 5
Part III – Threshold and Evaluation Criteria	page 7
Part IV – Required Supporting Material	
Water Rights, Availability, and Sustainability	page 10
Related Studies	page 10
Signature Page	page 12

Required Exhibits

- A. Statement of Work, Budget, and Schedule
- B. Project Map
- C. As Needed (i.e. letters of support, photos, maps, etc.)

Appendices – Reference Material

- 1. Program Information
- 2. Insurance Requirements
- 3. WSRA Standard Contract Information (Required for Projects Over \$100,000)
- 4. W-9 Form (Required for All Projects Prior to Contracting)

Water Supply Reserve Account – Application Form

Revised October 2013

Instructions

To receive funding from the Water Supply Reserve Account (WSRA), a proposed water activity must be approved by the local Basin Roundtable **AND** the Colorado Water Conservation Board (CWCB). The process for Basin Roundtable consideration and approval is outlined in materials in Appendix 1.

Once approved by the local Basin Roundtable, the applicant should submit this application **with a detailed statement of work including budget and schedule as Exhibit A** to CWCB staff by the application deadline.

WSRA applications are due with the roundtable letter of support 60 calendar days prior to the bi-monthly Board meeting at which it will be considered. Board meetings are held in January, March, May, July, September, and November. Meeting details, including scheduled dates, agendas, etc. are posted on the CWCB website at: <http://cwcb.state.co.us> Applications to the WSRA Basin Account are considered at every board meeting, while applications to the WSRA Statewide Account are only considered at the March and September board meetings.

When completing this application, the applicant should refer to the WSRA Criteria and Guidelines available at: <http://cwcb.state.co.us/LoansGrants/water-supply-reserve-account-grants/Documents/WSRACriteriaGuidelines.pdf>. In addition, the applicant should also refer to the Supplemental Scoring Matrix applied to Evaluation Criteria Tiers 1-3 for Statewide Account requests .

The application, statement of work, budget, and schedule **must be submitted in electronic format** (Microsoft Word or text-enabled PDF are preferred) and can be emailed or mailed on a disk to:

Craig Godbout - WSRA Application
Colorado Water Conservation Board
1313 Sherman St., Room 721
Denver, CO 80203
Craig.godbout@state.co.us

If you have questions or need additional assistance, please contact Craig Godbout at: 303-866-3441 x3210 or craig.godbout@state.co.us.

Water Supply Reserve Account – Application Form

Revised October 2013

Part I. - Description of the Applicant (Project Sponsor or Owner);

1.	Applicant Name(s):	Marcot Park Ditch and Reservoir Co.		
	Mailing address:	15631 Bull Mesa Rd. Cedaredge, CO 81413		
	FEIN #:	46-2062341		
	Primary Contact:	Milan R. Armstrong	Position/Title:	Pres
	Email:	Milan.armstrong@gmail.com		
	Phone Numbers:	Cell: 970) 234-7683	Office:	
	Alternate Contact:		Position/Title:	
	Email:			
	Phone Numbers:	Cell:	Office:	

2. Eligible entities for WSRA funds include the following. What type of entity is the Applicant?

- ☐ Public (Government) – municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities and the local entity should be the grant recipient. Federal agencies are eligible, but only if they can make a compelling case for why a local partner cannot be the grant recipient.
- ☐ Public (Districts) – authorities, Title 32/special districts, (conservancy, conservation, and irrigation districts), and water activity enterprises.
- ☒ Private Incorporated – mutual ditch companies, homeowners associations, corporations.
- ☐ Private individuals, partnerships, and sole proprietors are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
- ☐ Non-governmental organizations – broadly defined as any organization that is not part of the government.

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3. Provide a brief description of your organization Company was incorporated in 1946 as a non-profit Corporation. There are 21 stockholders using water stored in the reservoir for agricultural purposes on about 250 acres of farmland in Delta County for a wide variety of irrigated crops. In addition, the reservoir stores water for Town of Orchard City's domestic water supply. The Company holds a valid easement from US Forest Service to operate the reservoir and maintain it via a maintenance agreement with US Forest Service dated July,2009.

4. If the Contracting Entity is different then the Applicant (Project Sponsor or Owner) please describe the Contracting Entity here.

Not Applicable

5. Successful applicants will have to execute a contract with the CWCB prior to beginning work on the portion of the project funded by the WSRA grant. In order to expedite the contracting process the CWCB has established a standard contract with provisions the applicant must adhere to. A link to this standard contract is included in Appendix 3. Please review this contract and check the appropriate box.

☒

The Applicant will be able to contract with the CWCB using the Standard Contract

☐

The Applicant has reviewed the standard contract and has some questions/issues/concerns. Please be aware that any deviation from the standard contract could result in a significant delay between grant approval and the funds being available.

6. The Tax Payer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect the applicant.

TABOR does not apply to private companies.

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Part II. - Description of the Water Activity/Project

1. What is the primary purpose of this grant application? (Please check only one)

☒ Nonconsumptive (Environmental or Recreational)

☒ Agricultural

☐ Municipal/Industrial

☐ Needs Assessment

☐ Education

☒ Other

Explain:

2. If you feel this project addresses multiple purposes please explain.

Recreational: Nearby campsites are convenient for fishing in Marcot, creek, and nearby reservoirs.

Agricultural: Marcot reservoir supplies irrigation water to about 250 acres of farmland in the Surface Creek area.

Domestic: Town of Orchard City has water rights to appropriately 2% of the Marcot reservoir capacity.

3. Is this project primarily a study or implementation of a water activity/project? (Please check only one)

☐ Study

☒ Implementation

4. To catalog measurable results achieved with WSRA funds can you provide any of the following numbers?

New Storage Created (acre-feet)

New Annual Water Supplies Developed, Consumptive or Nonconsumptive (acre-feet)

Existing Storage Preserved or Enhanced (acre-feet)

Length of Stream Restored or Protected (linear feet)

Length of Pipe/Canal Built or Improved (linear feet)

Efficiency Savings (acre-feet/year OR dollars/year – **circle one**)

Area of Restored or Preserved Habitat (acres) **WETLANDS**

Other -- Explain:

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4. To help us map WSRA projects please include a map (Exhibit B) and provide the general coordinates below:

Latitude:

39.034827

Longitude:

-107.809213

5. Please provide an overview/summary of the proposed water activity (no more than one page). Include a description of the overall water activity and specifically what the WSRA funding will be used for. A full **Statement of Work** with a detailed budget and schedule is required as **Exhibit A** of this application.

Marcot Ditch and Reservoir Co. ("Company") is upgrading its 60-yr old reservoir, Marcot Reservoir, which, because of its position in the chain of flow and storage on Grand Mesa is an important mid-altitude, high capacity reservoir. Located at 9600-ft. Elevation it is geographically located in a high water yield basin.

The dam's outlet, installed in 1955, is a 20-inch OD steel with 1/4-inch wall thickness, bituminous coating within and on the outer surface. The Company, in cooperation with CO Dam Safety, has monitored the condition of the pipe via photo and video means. Concerns were cited in an inspection report by the CO Dam Safety Engineer dated July 16, 2012 after a video inspection of the outlet. In the summer of 2015 the Company engaged an engineering firm (DOWL, LLC) to examine the the outlet, the historical data, and determine the best course of action for repair.

Findings by DOWL confirm that Marcot outlet is a....."very good candidate for rehabilitation using a CURED-IN-PLACE-PIPE (CIPP) liner". Accordingly, appropriate calculations were made to confirm the efficacy of the method and submitted to Colorado Dam Safety for review and approval. It appears at this point that the CIPP technology would provide an affordable, durable, and modest repair that could extend the life of the dam another 50 years.

The proposed project will be undertaken in the following steps:

- A. USFS approval for move-on by contractor will be obtained (in accordance with Maintenance agreement.)
- B. Site preparations including pipe access and pads for equipment,
- C. Pumps on site to divert water away from working area,
- D. Clean outlet pipe from inlet gate to discharge, remove debris to designated area, hold for disposal,
- E. Inspect pipe to assure proper removal of scale, debris, and unwanted deposits,
- F. Repeat "D and E" above until pipe is properly prepared,
- G. Install CIPP liner, re-inspect, correct any deficiencies,
- H. Inspection by Colorado Dam Safety, sign off approval,
- I. Clean up work site area and restore any disturbed surfaces.

Part III. – Threshold and Evaluation Criteria

1. Describe how the water activity meets these **Threshold Criteria.** (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines.)

- a) The water activity is consistent with Section 37-75-102 Colorado Revised Statutes.¹

If this repair is not completed in a timely manner, it may be necessary to breach the reservoir dam to install a new outlet pipe at considerable expense. A no-fill order would deprive the drainage of almost 500 a/f of needed water storage.

- b) The water activity underwent an evaluation and approval process and was approved by the Basin Roundtable (BRT) and the application includes a description of the results of the BRT's evaluation and approval of the activity. At a minimum, the description must include the level of agreement reached by the roundtable, including any minority opinion(s) if there was not general agreement for the activity. The description must also include reasons why general agreement was not reached (if it was not), including who opposed the activity and why they opposed it. Note- If this information is included in the letter from the roundtable chair simply reference that letter.

Pending Roundtable review

¹ 37-75-102. Water rights - protections. (1) It is the policy of the General Assembly that the current system of allocating water within Colorado shall not be superseded, abrogated, or otherwise impaired by this article. Nothing in this article shall be interpreted to repeal or in any manner amend the existing water rights adjudication system. The General Assembly affirms the state constitution's recognition of water rights as a private usufructuary property right, and this article is not intended to restrict the ability of the holder of a water right to use or to dispose of that water right in any manner permitted under Colorado law. (2) The General Assembly affirms the protections for contractual and property rights recognized by the contract and takings protections under the state constitution and related statutes. This article shall not be implemented in any way that would diminish, impair, or cause injury to any property or contractual right created by intergovernmental agreements, contracts, stipulations among parties to water cases, terms and conditions in water decrees, or any other similar document related to the allocation or use of water. This article shall not be construed to supersede, abrogate, or cause injury to vested water rights or decreed conditional water rights. The General Assembly affirms that this article does not impair, limit, or otherwise affect the rights of persons or entities to enter into agreements, contracts, or memoranda of understanding with other persons or entities relating to the appropriation, movement, or use of water under other provisions of law.

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- c) The water activity meets the provisions of Section 37-75-104(2), Colorado Revised Statutes.² The Basin Roundtable Chairs shall include in their approval letters for particular WSRA grant applications a description of how the water activity will assist in meeting the water supply needs identified in the basin roundtable's consumptive and/or non-consumptive needs assessments.

This project will protect water stored in Marcot Reservoir for the Town of Orchard City. The Town fully endorses this project.

- d) Matching Requirement: For requests from the **Statewide Fund**, the applicants will be required to demonstrate a **25 percent** (or greater) match of the total grant request from the other sources, including by not limited to Basin Funds. A minimum match of 5% of the total grant amount shall be from Basin funds. A minimum match of 5% of the total grant amount must come from the applicant or 3rd party sources. Sources of matching funds include but are not limited to Basin Funds, in-kind services, funding from other sources, and/or direct cash match. Past expenditures directly related to the project may be considered as matching funds if the expenditures occurred within 9 months of the date the contract or purchase order between the applicant and the State of Colorado is executed. Please describe the source(s) of matching funds. (NOTE: These matching funds should also be reflected in your Detailed Budget in **Exhibit A** of this application)

Applicant spent \$20,000 in the fall of 2014 to reduce seepage in the SW area of the reservoir, and is prepared to budget expenditures to carry out this part of the overall rehabilitation. However, the outlet repair dictates a shift in priorities since the failure of the outlet would undoubtedly necessitate that the dam be breached. The Company intends to continue its financial commitment for the rehabilitation of the reservoir.

SEE EXHIBIT A

² 37-75-104 (2)(c). Using data and information from the Statewide Water Supply Initiative and other appropriate sources and in cooperation with the on-going Statewide Water Supply Initiative, develop a basin-wide consumptive and nonconsumptive water supply needs assessment, conduct an analysis of available unappropriated waters within the basin, and propose projects or methods, both structural and nonstructural, for meeting those needs and utilizing those unappropriated waters where appropriate. Basin Roundtables shall actively seek the input and advice of affected local governments, water providers, and other interested stakeholders and persons in establishing its needs assessment, and shall propose projects or methods for meeting those needs. Recommendations from this assessment shall be forwarded to the Interbasin Compact Committee and other basin roundtables for analysis and consideration after the General Assembly has approved the Interbasin Compact Charter.

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2. For Applications that include a request for funds from the **Statewide Account**, describe how the water activity/project meets all applicable **Evaluation Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines and repeated below.) Projects will be assessed on how well they meet the Evaluation Criteria. **Please attach additional pages as necessary.**

Evaluation Criteria – the following criteria will be utilized to further evaluate the merits of the water activity proposed for funding from the Statewide Account. In evaluation of proposed water activities, preference will be given to projects that meet one or more criteria from each of the three “tiers” or categories. Each “tier” is grouped in level of importance. For instance, projects that meet Tier 1 criteria will outweigh projects that only meet Tier 3 criteria. The applicant should also refer to the Supplemental Scoring Matrix applied to Evaluation Criteria Tiers 1-3 for Statewide Account requests. WSRA grant requests for projects that may qualify for loans through the CWCB loan program will receive preference in the Statewide Evaluation Criteria if the grant request is part of a CWCB loan/WSRA grant package. For these CWCB loan/WSRA grant packages, the applicant must have a CWCB loan/WSRA grant ratio of 1:1 or higher. Preference will be given to those with a higher loan/grant ratio.

Tier 1: Promoting Collaboration/Cooperation and Meeting Water Management Goals and Identified Water Needs

- a. The water activity addresses multiple needs or issues, including consumptive and/or non-consumptive needs, or the needs and issues of multiple interests or multiple basins. This can be demonstrated by obtaining letters of support from other basin roundtables (in addition to an approval letter from the sponsoring basin).
- b. The number and types of entities represented in the application and the degree to which the activity will promote cooperation and collaboration among traditional consumptive water interests and/or non-consumptive interests, and if applicable, the degree to which the water activity is effective in addressing intrabasin or interbasin needs or issues.
- c. The water activity helps implement projects and processes identified as helping meet Colorado’s future water needs, and/or addresses the gap areas between available water supply and future need as identified in SWSI or a roundtable’s basin-wide water needs assessment.

Tier 2: Facilitating Water Activity Implementation

- d. Funding from this Account will reduce the uncertainty that the water activity will be implemented. For this criterion the applicant should discuss how receiving funding from the Account will make a significant difference in the implementation of the water activity (i.e., how will receiving funding enable the water activity to move forward or the inability obtaining funding elsewhere).
- e. The amount of matching funds provided by the applicant via direct contributions, demonstrable in-kind contributions, and/or other sources demonstrates a significant & appropriate commitment to the project.

Tier 3: The Water Activity Addresses Other Issues of Statewide Value and Maximizes Benefits

- f. The water activity helps sustain agriculture & open space, or meets environmental or recreational needs.
- g. The water activity assists in the administration of compact-entitled waters or addresses problems related to compact entitled waters and compact compliance and the degree to which the activity promotes maximum utilization of state waters.
- h. The water activity assists in the recovery of threatened and endangered wildlife species or Colorado State species of concern.

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- i. The water activity provides a high level of benefit to Colorado in relationship to the amount of funds requested.
 - j. The water activity is complimentary to or assists in the implementation of other CWCBC programs.
- Continued: Explanation of how the water activity/project meets all applicable **Evaluation Criteria**.

Please attach additional pages as necessary.

This project has been designated by the WSRA committee as a Tier 1 Project.

Part IV. – Required Supporting Material

1. **Water Rights, Availability, and Sustainability** – This information is needed to assess the viability of the water project or activity. Please provide a description of the water supply source to be utilized, or the water body to be affected by, the water activity. This should include a description of applicable water rights, and water rights issues, and the name/location of water bodies affected by the water activity.

Adjudicated Date	Appropriation Date	Amount, AF	
1937-05-28	1895-08---01	132	H-5
1937-05-28	1902-07—15	354	H-15

2. Please provide a brief narrative of any related studies or permitting issues.

No permits are required. However, the maintenance agreement with the US Forest Service requires notification when and for what use intended equipment is transported to the dam. The Company will observe all components of the agreement and will assure that proper clean-up and remediation (if necessary) is completed.

3. Statement of Work, Detailed Budget, and Project Schedule

The statement of work will form the basis for the contract between the Applicant and the State of Colorado. In short, the Applicant is agreeing to undertake the work for the compensation outlined in the statement of work and budget, and in return, the State of Colorado is receiving the deliverables/products specified. **Please note that costs incurred prior to execution of a contract or purchase order are not subject to reimbursement.** All WSRA funds are disbursed on a reimbursement basis after review invoices and appropriate backup material.

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Please provide a detailed statement of work using the template in Exhibit A. Additional sections or modifications may be included as necessary. Please define all acronyms and include page numbers.

STATEMENT OF WORK 04-21-2016 BY MARCOT PARK DITCH AND RESERVOIR CO.

Background:

In cooperation with Colorado Dam Safety, the condition of the outlet pipe has been monitored via photographs and video cameras. After the July 16, 2012 Dam Safety inspection, the engineer cited concerns about the overall condition of the outlet piping. The pipe is 20" OD steel, 1/4" wall thickness with bituminous coating inside and outside. The inner lining has deteriorated, leaving the steel exposed. Indications are that corrosion, scaling, and rusting is taking place which could lead to failure. Cured-in-place-pipe (CIPP) has been selected by the Company's engineer as the best course of action for repair. Accordingly the necessary calculations and data have been submitted to Colorado Dam Safety for review and approval.

Objective:

CIPP has been shown to be advantageous in that it complements the host pipe strength even if the host pipe is weakened. The objective is to obtain the maximum effect of both strength and long life with the installation of CIPP.

Benefits:

The Company has taken a proactive position with respect to repairs of the Marcot Reservoir, ie, installation of rip-rap, identifying and repairing seepage, and this project has pulled ahead in priority since failure of the outlet could result in the loss of the reservoir (and all the recent repairs) entirely. Therefore, the benefit to the community to have the Marcot as viable water storage is a considerable asset.

SCHEDULE OF WORK/COSTS

(SEE EXHIBIT A)

REPORTING AND FINAL DELIVERABLE

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the statement of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

PAYMENT

Payment will be made based on actual expenditures and invoicing by the applicant. Invoices from any other entity (i.e. subcontractors) cannot be processed by the State. The request for payment must include a description of the work accomplished by major task, and estimate of the percent completion for individual tasks and the entire water activity in relation to the percentage of budget spent, identification of any major issues and proposed or implemented corrective actions. The last 10 percent of the entire water activity budget will be withheld until final project/water activity documentation is completed. All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and help promote the development of a common technical platform.

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The above statements are true to the best of my knowledge:

Signature of Applicant:

Print Applicant's Name: Milan R. Armstrong, President Marcot Park Ditch and Reservoir Co

Project Title: Marcot Dam Outlet Repair

Date: September 29, 2015

Return an electronic version (hardcopy may also be submitted) of this application to:

Craig Godbout – WSRA Application
Colorado Water Conservation Board
1313 Sherman St., Room 721
Denver, CO 80203
303-866-3441, ext. 3210 (office)
303-547-8061 (cell)
craig.godbout@state.co.us

Exhibit A
Statement of Work
Date: May 1st, 2015

WATER ACTIVITY NAME -Marcot Dam Outlet Repair

GRANT RECIPIENT –Marcot Park Ditch and Reservoir Company

FUNDING SOURCE -Gunnison Basin

INTRODUCTION AND BACKGROUND

Marcot Park Ditch and Reservoir Company (MPDRC) has embarked on a long-term effort to upgrade the aging earth-compacted Marcot Dam located on the Grand Mesa. In addition to the maintenance requirements indicated by periodic inspection by Colorado Dam Safety, MPDRC is aggressively working to minimize seepage from the reservoir, improve the dam crest, and improve placement of rip-rap. Photo and video examination of the outlet piping during dam inspections revealed however, that the priority should be shifted to rehabilitation of the outlet piping.

The dam's outlet, installed in 1955 is a 20-inch OD steel with ¼-inch wall thickness, bituminous coating within and on the pipe's outer surface. MPDRC, in cooperation with Colorado Dam Safety, has monitored the condition of the pipe via videos and photographic means. Concerns were cited in an inspection report by the Colorado Dam Safety Engineer dated July 16th, 2012, after a video inspection of the outlet pipe. In the summer of 2015, MPDRC engaged an engineering firm (DOWL, LLC) to examine the outlet, the historical data, and determine the best course of action for repair.

ENGINEERING

The conclusion of the DOWL investigation was that the Marcot outlet is a very good candidate for Cured-in-Place-Pipe (CIPP), a composite liner permanently em placed by a therm o-curing process inside the host pipe. The report was accompanied by engineering calculations intended for submission to the Colorado Dam Safety Dept. In addition, DOWL submitted an Engineer's Estimate of Probable Cost. All these were delivered to MPDRC on September 15th, 2015 for a cost of \$5240.00. This amount was paid from a previous WSRA study grant in the amount of \$10,000.00.

All deliverables described above, along with a copy of the application to State of Colorado Dam Safety are included in the appendix to the application.

ACTION TAKEN

Following receipt of the engineering findings, MPDRC met with personnel from Colorado Dam Safety on September 18th, 2015 and submitted plans, calculations, the Engineering report and an application to apply a CIPP repair to the Marcot Reservoir outlet. MPDRC then contacted qualified contractors for bids to perform the CIPP repair, a copy of which is included in the appendix.

GRANT FOR CIPP INSTALLATION

The following table denotes the elements of the proposed installation, the costs, and the time line:

SCHEDULE OF WORK AND COSTS

<u>TASK</u>	<u>COST</u>	<u>COMPLETED BY</u>	<u>WSRA</u>	<u>MPDRC</u>
1. Gather data, prepare Grant application, evaluate bids	\$0	September, 2016		\$0
2. *Site preparations: equipment rental, earth movers in for pad at work site, water pumps for continuous 24hr pumping for duration, on-site assistance and transportation.	\$12,000	September, 2016		\$12,000
3. Contractor mobilization	\$12,000	September, 2016	\$7,999	\$4001
4. Liaison with agencies, contractors, volunteers	\$1800	September, 2016		\$1800
5. CIPP installation	\$41,650	September, 2016	\$41,650	
6. Engineering oversight	\$4760	September, 2016		\$4760
7. Schedule inspections	\$400	September, 2016		\$400
8. Clean-up, site restoration	\$4000	September, 2016		\$4000
9. Contingency	\$10,000	September, 2016		\$10,000
10. Insurance	\$500	September, 2016		\$500
Totals	\$87,110		\$49,649	\$37,461
	WSRA funds	\$49,649	57%	
	MPDRC funds	\$37,461	43%	
Totals		\$87,110	100%	

MPDRC received bids from two contractors aware of site conditions and limitations.

All appropriate insurance coverage will be in force before project work begins, expenses incurred by MPDRC.

*Requires coordination with Grand Mesa Water Users Association to ensure reservoir is drained and ready for pumping and water mitigation at outlet gate valve.

FINANCIAL ANALYSIS

In 1955, the shareholders of Greenback Grave and Marcot Park Reservoirs executed an Agreement whereby Greenback Grave conveyed its water rights and easements to Marcot Park Reservoir for consideration of Marcot Park Reservoir storing and providing 48 acre-feet of water to the Greenback shareholders on a first charge basis and made available at all times during the irrigation season. Further, Marcot Park shareholders agreed to maintain the reservoir at their own expense and with “no assessment charges or costs of any kind to [Greenback] and further to provide all necessary labor for storage and distribution of said water at the outlet of said reservoir.” Marcot agreed that “there shall be no charge incurred or liability upon [Greenback] for any enlargement or any construction to said reservoir, repair, replacement or rebuilding”.

As a result of the Colorado Water Court ruling, Marcot Park Reservoir is allowed to store 460.35 acre-feet of water. The first 48 acre-feet are reserved for the shareholders of Greenback Grave and MPDRC shareholders are entitled to the remaining 412.35 acre-feet.

Over the past eight years, shareholders of MPDRC have through assessments, financed the ongoing rehabilitation efforts at Marcot Dam and Reservoir. These activities include:

A. Add rip-rap on Dam slope	(2008)	\$1400
B. Grade crest of dam	(2010)	\$600
C. Rework/repair gauge rod, gate valve	(2011)	\$850
D. Identify, correct area of seepage in Southwest flank of reservoir.	(2014)	\$19,300
E. Continue with upper seepage repairs	(2015)	\$1438
Total		\$23,588

Yearly assessments to MPDRC shareholders have raised over the years depending upon the nature and severity of repairs. For the past eight years the financial load to shareholders for special assessments has averaged \$23,588 divided by 8 years, or \$2950 per year. For the 100 shares outstanding this is about \$30 per share, or \$2950 divided by 412a/f, = \$7.00 per a/f. Regular assessments amounted to \$11.00 a/f for a total shareholder cost of \$18 a/f.

If the outlet pipe repair is borne entirely by MPDRC the cost would jump to approximately \$72.00a/f, a four-fold increase which would necessitate a special assessment of \$296 per share as a consequence.

MPDRC requests WSRA funding to offset the financial burden and to assure the continuity of valuable water storage.

APPENDIX 1

A. DOWL ENGINEERING REPORT

B. SPECIFICATIONS FOR CIPP

C. APPLICATION TO CO DAM SAFETY

Marcot Dam Outlet Repair

Project Design Report

Water Division IV Water District 40

DAMID: 400407

Delta County, Colorado

September, 2015

Prepared For:

Marcot Park Ditch & Reservoir Co., Owner

15627 Bull Mesa Rd.

Cedaredge, CO 81413

Prepared By:

DOWL, LLC

222 South Park Avenue

Montrose, CO 81401



970-249-6828 ■ 800-865-9847 (fax) ■ 222 South Park ■ Montrose, CO 81401 ■ www.dowl.com
Alaska ■ Arizona ■ Colorado ■ Montana ■ North Dakota ■ Oregon ■ Washington ■ Wyoming

Marcot Dam Outlet Repair

WATER DIVISION #4, WATER DISTRICT #40

DAM ID: 400407

CONSTRUCTION FILE NUMBER

DELTA COUNTY, COLORADO

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CIPP Design Computations.....	6
Discharge Rating Curve	9
Appendix B.....	10
Laboratory Test Reports for the Modulus of Elasticity.....	18 pages

Design Report for Cured-In-Place-Pipe Liner

1. **Introduction:** The Marcot Park Dam is currently owned and operated by the Marcot Park Ditch and Reservoir Company, of Cedaredge. The dam is located in Section 5, Township 12 S, Range 93 W, of the Sixth Principle Meridian on land managed by the U.S. Forest Service in the Grand Mesa National Forest. Based on the current inventory, the structure is categorized as a Small, High Hazard dam in accordance with the State of Colorado, Rules and Regulations for Dam Safety and Dam Construction, dated January 1, 2007.

The existing outlet pipe is a 20" OD steel pipe with 1/4" wall thickness installed in 1955 according to information contained in Division of Water Resources files. The steel pipe was inserted in a 30" x 30" concrete conduit extending 45' upstream of the axis of the dam according to as-built drawings for the 1955 enlargement. The specification also state the embankment height was increased 12 feet, resulting in a total embankment height of 37.5 feet to the pipe invert resulting in a normal water depth of 32.5 feet above the pipe invert at centerline, assuming 5' of freeboard. The length of the outlet conduit is approximately 170 feet as described by the as-built plans for the 1955 enlargement. The purpose of the outlet repairs, described herein, are being undertaken to address concerns regarding the remaining service life of the existing steel pipe. Concerns were cited in an inspection report by the State Dam Safety Engineer dated July 16, 2012 after a video inspection of the pipe's interior.

The video shows the pipe is rusty where the original bituminous coating is missing, but is circular in shape throughout with no sags or holes. Several joints are corroded and coated with what appears to be calcium deposits, perhaps due to water infiltration. The pipe does not exhibit any signs of structural weakness, significant distortion, or collapse based on the video inspection. As a result of the findings, the pipe appears to be a very good candidate for rehabilitation using a Cured-In-Place-Pipe (CIPP) liner.

2. **CIPP Process:** The CIPP liner process involves pressurized inversion of a resin impregnated felt tube into the existing pipe and heated internally until cured. The design of the liner thickness, manufacture of the liner tube, installation, and curing is governed by ASTM F1216. The thickness of the liner tube is based, in part, on the condition of the existing pipe. Depth of cover and water depth are primary factors in determining the required thickness. Computation of the liner wall thickness and the discharge rating curve for the lined pipe is provided in Appendix A.

3. **Conclusion:** Based on the results of computations, the appropriate minimum wall thickness for the CIPP should be 0.34 in. (8.6 mm) for a partially deteriorated condition of the existing pipe based on internal water pressure. The computations for a fully deteriorated condition yielded a wall thickness of 0.46 in. (11.7 mm). While the ASTM design standard suggests a minimum value of 250,000 for the modulus of elasticity, the use of 400,000 psi value for enhanced resin is well supported by actual laboratory tests performed on cured samples with results provided as an attachment to the report. The additional strength provided for the fully deteriorated condition would not appear warranted based on the existing physical appearance of the pipe shown in the video inspection. No signs of structural weakness are evident, the existing pipe has a circular shape throughout, no sags in the invert evidenced by the water flow, no lateral displacements are apparent, walls of the pipe are intact throughout. The conditions observed would indicate the existing conduit has sufficiently accommodated all internal and external loading since installed 60 years ago.

In conclusion, the partially deteriorated condition is an appropriate design criteria for the rehabilitation of the existing pipe and fully satisfy concerns expressed by the State Dam Safety Engineer.

Appendix A

CIPP Design Computations and Discharge Rating Curve

CIPP Thickness Computations

The principle reference for determining the minimum wall thickness for the CIPP liner to be installed is ASTM F1216. The equations in there entirety, along with parameter definitions, are contained in the Appendix of the ASTM standard. Pertinent information is summarized here for reference.

The equations used to compute the required minimum wall thickness are for the following two assumed conditions of the existing pipe:

- ☐ For a partially deteriorated condition
- ☐ For a fully deteriorated condition

Although the video inspection of the existing pipe's interior shows no outward signs of structural weakness in the cross-section, the remaining strength of the pipe wall of the existing steel pipe is not known. Therefore, the required minimum wall thickness was computed for both conditions of deterioration to show relative differences in the two requirements.

The following is a summary of the computations and assumptions used for the two conditions:

Partially Deteriorated Condition

$$P = \frac{2KE_L}{(1 - \nu^2)} \times \frac{1}{(SDR - 1)^3} \times \frac{C}{N}$$

$$c = \left(\left[1 - \frac{q}{100} \right] \left[1 + \frac{q}{100} \right] \right)^3$$

Where:

K	= 7.0	Enhancement factor of the soil
E _L	= 400,000 psi	Long-term modulus of elasticity (50% reduction for Enhanced Resin)
ν	= 0.3	Poisson's ratio
t	= 0.34 in	Assumed thickness of CIPP
D	= 19.5 in	Mean diameter of existing pipe
SDR	= 57.35	Standard Dimension Ratio - t/D
q	= 2.0	% Percent ovality assumed
C	= 0.84	Ovality reduction factor

Where:

H _w	= 32.5 ft	Height of water above top of pipe
P _a	= 14.08 psi	Actual groundwater load
P	= 14.37 psi	Allowable groundwater load (psi) for assumed t

$$t = 0.34 \text{ in. (8.6 mm) OK}$$

Fully Deteriorated Condition

Where:

$$q_t = \frac{C}{N} \left[32 R_w B' E'_s (E_L I / D^3) \right]^{1/2}$$

H_w	=	32.5 ft	Height of water above pipe
H	=	35.0 ft	Height of soil above top of pipe
R_w	=	0.71	Water buoyancy factor = $1 - 0.33(H_w / H)$ (0.67 minimum)
w	=	120 lb/ft ³	Soil density
W_s	=	0.0	psi Live load
B'	=	0.76	Coefficient of elastic support = $1 / (1 + 4e^{-0.065H})$
t	=	0.46 in	Assumed thickness of CIPP
I	=	0.0092 in ⁴ /in	Moment of inertia of CIPP
C	=	0.84	Ovality reduction factor
N	=	2.0	Factor of safety
E'_s	=	1000.0	Modulus of soil reaction
E_L	=	400,000 psi	Long-term modulus of elasticity (50% reduction for Enhanced Resin)
D	=	19.5 in	Mean inside diameter of original pipe
q_a	=	34.30 psi	Actual external load = $0.433H_w + wHR_w / 144 + W_s$
q_t	=	34.67 psi	Allowable external load for assumed t

$t = 0.46$ in. (12.2 mm) OK

From "Design of S

.blication, 3rd Edition, 1987

Physical properties of outlet after lining

ID= 18.82 in. = 1.57 ft.

$$A = \frac{\pi d^2}{4} = \frac{\pi (1.57)^2}{4} = 1.93 \text{ sq. ft.}$$

L= 170 ft.

Manning's n= 0.01

Head losses

- 1) Trashrack Assumed: $a_n = 16.74$ $a_g = 18.75$

$$K_T = 1.45 - 0.45 \frac{a_n}{a_g} - \left(\frac{a_n}{a_g} \right)^2$$

$$K_T = 0.23$$

- 2) Entrance & Gate From Table 10.1, p.458 - Ave C= 0.82 for condition (c)

$$K_e = \frac{1}{C^2} - 1 = \frac{1}{(0.82)^2} - 1$$

$$K_e = 0.49$$

- 3) Elbow Assume 70" miter bend, for relative $\frac{R_b}{D} = 0.5$

$$K_b = 0.9$$

From Figure 10-12(A) $K_b = 1.0$ for 90" bend

From Figure 10-12(B) Factor = 0.9 for 70" bend

- 4) Friction

$$K_f = \frac{185 n^2 L}{d^{5/2}} = \frac{185 (0.01)^2 (170)}{(1.57)^{5/2}}$$

$$K_f = 1.73$$

- 5) Exit

$$K_x = 1.0$$

For free discharge

Total Head Loss

$$K_T = K_T + K_e + K_b + K_f + K_x = 0.23 + 0.49 + 0.9 + 1.73 + 1.0$$

$$K_T = 4.34$$

Discharge Equation

$$Q = a \sqrt{\frac{2gH_r}{K_T}} = (1.93) \sqrt{\frac{(64.4)H_r}{(4.34)}} = 7.44 \sqrt{H_r}$$

The following table provides the computed discharge for each foot of depth based on the above equation.

Outlet Discharge Rating Curve	
H_T feet	Q cfs
1	7.44
2	10.52
3	12.88
4	14.87
5	16.63
6	18.22
7	19.68
8	21.04
9	22.31
10	23.52
11	24.67
12	25.76
13	26.82
14	27.83
15	28.80
16	29.75
17	30.66
18	31.55
19	32.42
20	33.26
21	34.08
22	34.88
23	35.67
24	36.43
25	37.19
26	37.92
27	38.64



August 22, 2014

Christian Brown
Layne Inliner (CO)
7915 Cherrywood Loop
Kiowa, CO 80117

Dear Christian Brown,

Microbac Laboratories, Inc. Hauser Division completed work order 1408308 on 8/22/14. Please find the final report on the following pages. Thank you for choosing Microbac Laboratories for your testing needs.

It is our preference to send all reports and invoices electronically when available. If you need any contact information updated or additional contacts added, please communicate your needs to our administrative staff at (720)406-4800 or hauserlabs@microbac.com.

To provide feedback concerning our services, please contact our Quality Department or Trevor Boyce, President of Microbac Laboratories, at trevor.boyce@microbac.com.

Sincerely,

Doug Bert
Mechanical Department Manager
Microbac Laboratories, Inc. Hauser Division

CLIENT: Layne InLiner
7915 Cherrywood Loop
Kiowa, CO 80117

SAMPLES: Five samples of cured in place plastic pipe (CIPP) material were submitted and identified by the client as shown below.

Manhole Number
3.21 to CH3.2
CH6 to CH5
CH5 to CH4
CH3 to C6
CH4 to CH3

TESTING:

1. Thickness measurements were made on the samples in accordance with ASTM D5813-04(12) at eight locations on each sample.
2. Flexural Properties testing per ASTM D790-10, Procedure A was conducted on the samples. The specimens were prepared in accordance with ASTM D5813-04(12). The specimens were tested using a sixteen to one span-to-depth ratio. All specimens were conditioned in accordance with ASTM D618-13, Procedure A prior to testing.

RESULTS The test results are presented in Tables 1 and 2. Flexural properties test results include flexural strength at flexural yield (at or prior to reaching 5% strain), and tangent flexural modulus. Specimen dimensions, span length, and testing speed for flexural properties testing are presented in Table 3.

DATA REVIEWED AND
REPORT WRITTEN BY:

REPORT REVIEWED BY:

Douglas Bert
Department Manager

John Hindman
Engineer II

For any feedback concerning our services, please contact the Managing Director of the Hauser Division or Trevor Boyce, President, at trevor.boyce@microbac.com and Cabot Earle, Executive Vice President, at cabot.earle@microbac.com. This report applies only to the sample(s) tested or analyzed. This report may be copied only in its entirety, unless prior written consent has been granted by an authorized agent of the Hauser Division of Microbac Laboratories, Inc.

Specimen Number	Flexural Yield Strength	Strain @ Flexural Yield Strength	Flexural Modulus (Tangent)
	psi	%	psi
3.21 to CH3.2			
1	5,330	5.0	475,000
2	5,550	5.0	452,000
3	5,230	4.6	462,000
4	5,400	5.0	445,000
5	5,620	4.9	425,000
Average	5,430	4.9	452,000
Std. Dev.	150	0.2	17,000
CH6 to CH5			
1	8,330	4.1	563,000
2	7,750	2.9	560,000
3	7,960	3.7	569,000
4	8,100	4.4	552,000
5	8,120	3.5	579,000
Average	8,050	3.7	565,000
Std. Dev.	200	0.6	9,000
CH5 to CH4			
1	7,850	4.3	566,000
2	7,350	4.1	560,000
3	8,090	4.9	569,000
4	8,290	4.9	565,000
5	7,790	4.5	558,000
Average	7,880	4.5	564,000
Std. Dev.	330	0.4	4,000

4750 Nautilus Court So: 9K&3L9 4: 007 5 1 ZZZ 2 L 74- . 42

FLEXURAL PROPERTIES TEST RESULTS			
Specimen Number	Flexural Yield Strength	Strain @ Flexural Yield Strength	Flexural Modulus (Tangent)
	psi	%	psi
CH3 to C6			
1	5,770	3.4	509,000
2	5,910	5.0	426,000
3	5,900	5.0	510,000
4	5,560	5.0	496,000
5	5,790	4.4	487,000
Average	5,780	4.6	486,000
Std. Dev.	130	0.7	32,000
CH4 to CH3			
1	6,390	2.9	554,000
2	6,760	5.0	563,000
3	6,490	4.6	551,000
4	6,480	4.9	554,000
5	5,120	4.5	393,000
Average	6,250	4.4	523,000
Std. Dev.	590	0.9	67,000

4750 Nautilus Court So: 9K&319 1 4: 007 5 1 ZZZ 2 L 74- . 42

TABLE 3
DETAILS OF FLEXURAL PROPERTIES TESTING

Specimen Number	Width	Thickness
	in	in
3.21 to CH3.2		
1	0.483	0.271
2	0.487	0.244
3	0.493	0.228
4	0.485	0.267
5	0.475	0.258
Span Length (inches)		4.06
Speed of Testing (inches per Minute)		0.10
CH6 to CH5		
1	0.483	0.211
2	0.481	0.212
3	0.481	0.212
4	0.480	0.213
5	0.484	0.210
Span Length (inches)		3.39
Speed of Testing (inches per Minute)		0.09
CH5 to CH4		
1	0.481	0.215
2	0.480	0.219
3	0.481	0.216
4	0.481	0.214
5	0.485	0.212
Span Length (inches)		3.44
Speed of Testing (inches per Minute)		0.09

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4750 Nautilus Court So: 9K&319 4: 007 5 1 ZZZ 2 L 74- . 42

**TABLE 3 CONTINUED
DETAILS OF FLEXURAL PROPERTIES TESTING**

Specimen Number	Width	Thickness
	in	in
CH3 to C6		
1	0.487	0.256
2	0.485	0.237
3	0.488	0.252
4	0.490	0.245
5	0.491	0.227
Span Length (inches)		3.89
Speed of Testing (inches per Minute)		0.10
CH4 to CH3		
1	0.489	0.239
2	0.481	0.253
3	0.485	0.231
4	0.487	0.247
5	0.487	0.247
Span Length (inches)		3.89
Speed of Testing (inches per Minute)		0.10

For any feedback concerning our services, please contact the Managing Director of the Hauser Division or Trevor Boyce, President, at trevor.boyce@microbac.com and Cabot Earle, Executive Vice President, at cabot.earle@microbac.com. This report applies only to the sample(s) tested or analyzed. This report may be copied only in its entirety, unless prior written consent has been granted by an authorized agent of the Hauser Division of Microbac Laboratories, Inc.

4750 Nautilus Court So: 9K&319 4: 007 5/ 1/ ZZZ 2 L 74- . 42



Proposal

Pipeline Inspection Services

"Rebuilding our worlds infrastructure one city at a time"

DATE: MARCH 14, 2016

PO Box 3023, Nampa, ID 83653
Phone 208-941-9424 Fax 208-465-4413
pipelineinspections@hotmail.com

TO: Norman J. Aufderheide, P.E.
Senior Project Manager



DOWL

WWW.DOWL.COM
INSPIRATION • INNOVATION • INTEGRITY

(970) 497-8801 ■ (800) 865-9847 (fax)
222 South Park Avenue
Montrose, Colorado 81401

SALESPERSON	JOB	PAYMENT TERMS	BID DATE
Scott Wendling	170' of 20" Grand Junction	Due on receipt	N/A

QTY	DESCRIPTION	UNIT PRICE	LINE TOTAL
170'	Install approximately 170' of 20" x 9mm CIPP Liner in an existing damn outlet.	\$245.00	\$41,650.00
1	CIPP Crew Mobilization	\$12,000.00	\$12,000.00
Note: Exclusions to this proposal are Traffic Control, Bypass pumping of any kind, and restoration of ground disturbed.			
TOTAL			\$53,650.00

Specifications:

- Pipeline Inspections Services Inc. shall perform all work along city, county, and state highways in a manner that conforms to federal, state, and local regulations and safety practices. Owner will be required to arrange for, set up, and tear down all traffic control on state and federal highways at no cost to Pipeline Inspection Services Inc. If Pipeline Inspections Services Inc. is required to wait for traffic control to be set up or moved, Owner will be billed the time at an hourly rate.
- During the video portion, Pipeline Inspection Services Inc. will set up on one to inspect a section, if an obstruction prohibits inspection of the entire section, Pipeline Inspection Services Inc. will then set up on the other end of the section, if it is still not possible to complete the section, and the problem is beyond Pipeline Inspection Services Inc. control. Owner will then be billed for the entire section. If Pipeline Inspection

- Services Inc. has to wait for Owner to perform cleaning and vacuuming of a section prior to, during, or after an inspection, Owner will be billed the time at an hourly rate.
- **Pipeline Inspections Services Inc.** shall perform all cleaning and vacuuming services at the hourly rate listed. This shall include all time normally used in the completion of this type of project (i.e. cleaning, vacuuming, dumping, getting water).
 - **Pipeline Inspections Services Inc.** will provide 1 copy of the DVD or DVD's and 1 copy of the computer generated report at time on inspection. Additional copies can be obtained for a fee of \$250.00 each.
 - **Owner** is responsible for providing maps or drawings of the sewer system to be cleaned and inspected prior to the mobilization of the crew to the job site.
 - **Owner** is responsible for notifying all residents of the cleaning and inspection activities' and the possibility of sewer blow back into their home. Should an event like this take place Owner shall be responsible for any damage done to the home.
 - **Owner** shall be responsible for any collapsed lines due to cleaning operations and shall assist in the extraction of Pipeline's equipment if needed. (i.e. backhoe to dig up camera)
 - Manholes that are inaccessible and require extra work (i.e. locating, exposing, pulling hose, backyards, pastures, etc.) will be charged an hourly rate of \$380.00 on top of the linear foot price to complete the work.
 - In the event that Pipeline's crews have cleaned a section of pipe or line segment (i.e. manhole to manhole) more than 4 times (i.e. completely passed through with cleaning nozzle from manhole to manhole is one pass) Pipeline will switch to an hourly rate of \$225.00 by which the customer will be expected to pay in addition to the original quote or quoted per foot price to complete the work.
 - **Owner** shall be responsible for ensuring there is a clear area to the job location which is of sufficient size to accommodate the required personnel and equipment. Owner shall clear, expose, and mark all lids, covers or openings for **Pipeline Inspections Services Inc.** If **Pipeline Inspection Services Inc.** is required to locate and/or clear any manholes or wait while "Owner" crews do, it shall be considered as extra work and will be billed at the hourly rate of \$250.00 per/hour.
 - **Owner** is responsible to provide a fire hydrant within close proximity (1/2 Mile) to the work. **Owner** shall provide a dump site for all debris removed during cleaning. All cost associated with disposal of debris shall be paid by the **Owner**. Disposal shall be in accordance with all applicable federal, state, and local regulations, if any.
 - Standby time will be assessed if **Pipeline Inspections Services Inc.** crews arrive on-site and we are unable to perform the scheduled work in a timely manner.
 - This proposal shall be automatically cancelled if not accepted within 30 days.

Proposal prepared by: - Scott Wendling Vice-President _____

To accept this proposal, sign here and return: _____

All mobilization and associated costs are included in the prices above. We are PACP Certified NAASCO Members.

OR CCB# 175702, ID PW# PWC-C-15828-B-4, WA GEN CON# PIPELIS929KM, UT# 8260586-5501

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
July 20-21, 2016
Agenda Item 16(e)

Applicant & Fiscal Agent: Shavano Conservation District
Water Activity Name: Ditch Mapping of Colona Area
Water Activity Purpose: Multipurpose
County: Ouray
Drainage Basin: Gunnison
Water Source: Gunnison tributaries
Amount Requested/Source of Funds: \$13,658 Gunnison Basin Account
\$13,658 Total Basin Account request

Matching Funds: Applicant Match: \$5,613 = 30% of the total project cost of \$19,271
(refer to *Funding Summary/Matching Funds* section below)

Staff Recommendation:

Staff recommends approval of up to \$13,658 from the Gunnison Basin Account to help fund the project titled: Ditch Mapping of Colona Area.
--

Water Activity Summary: WSRA funds, if approved, will help fund the project titled: Ditch Mapping of Colona Area. The Shavano District encompasses 1,191,438 acres including all of Ouray County and portions of Montrose, Gunnison and Delta Counties. As a designated salinity control area, Shavano Conservation District holds salinity control as a top priority.

This application requests funding to complete the GIS ditch mapping efforts in the Colona area. Digital mapping of irrigation ditches and documentation of their operations is required by the Bureau of Reclamation for calculation of salt loads contributing to salinity in the Colorado River system. These salt loads must be established by the BOR for a ditch company to be eligible to apply for grants offered through the BOR-Basinwide Salinity Control Program. Ditch companies in the Colona area have expressed interest in applying for funds through this program to pipe portions of their irrigation delivery canals, however they are unable to do so until ditch mapping is completed in this area. The BOR has expended \$98,000 on the ditch mapping effort in the Lower Gunnison Basin over the past 3 years, and has no more funds available to complete this work in the Upper Uncompahgre area. Because interest in applying for federal funds to improve irrigations ditches has been expressed in the Colona area, and the ditch mapping work has been initiated, the Shavano Conservation District is seeking funds to complete the effort in this targeted area.

Completion of the ditch mapping effort is essential for the Colona area ditches to apply for significant federal funds available to finance piping projects. The BOR-Basinwide Salinity Control Program typically offers \$40M in grants every three years for ditch improvement projects in the Upper Colorado River Basin.

Since 2009, 122 ditches have been documented, with 730 miles of canal digitized in the Lower Gunnison basin, coordinated by Shavano and Delta Conservation Districts. The BOR-Basinwide Salinity Control Program, which relies on this ditch mapping data to rank the cost effectiveness of project applications, has awarded nearly \$90M to fund irrigation system improvements in the Lower Gunnison basin. Completion of this proposed project will extend eligibility to apply for these funds to another 12 ditches including 34 miles of canal.

Discussion: This project meets the measurable objectives and action items in the Gunnison Basin Implementation Plan including:

- Protects existing water uses in the Gunnison Basin;
- Discourages conversion of productive agricultural land to other uses;
- Improves agricultural water supplies to reduce shortages;
- Improves water quality;
- Restores, maintains, and modernizes critical water infrastructure.

This project also meets additional critical actions identified in the Critical Action Plan (Chapter 10) of Colorado's Water Plan:

- **D3:** Provide grants, loans, and technical support to update and improve Colorado's aging agricultural infrastructure, especially where improvements provide multiple benefits.
- **E2:** Prioritize grants and loans to support the implementation of BIP-identified multipurpose projects and methods, taking into consideration locally identified geographic and seasonal gaps.

Issues/Additional Needs: Staff will work with applicant to assemble a Scope of Work which meets the criteria for State contracting.

Threshold and Evaluation Criteria: The application meets all four Threshold Criteria.

Tier 1-3 Evaluation Criteria: n/a

Funding Summary/Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
Trout Unlimited	\$500	\$700	\$1,200
Shavano Conservation District	\$2,913	\$1,500	\$4,413
Subtotal Matching Funds	\$3,413	\$2,200	\$5,613
WSRA Gunnison Basin Account	\$13,658	n/a	\$13,658
Total Project Costs	\$17,071	\$2,200	\$19,271

CWCB Project Manager: Brent Newman

All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and will help promote the development of a common technical platform. In accordance with the revised WSRA Criteria and

Guidelines, staff would like to highlight additional reporting and final deliverable requirements. The specific requirements are provided below.

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the scope of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

Engineering: All engineering work (as defined in the Engineers Practice Act (§12-25-102(10) C.R.S.)) performed under this grant shall be performed by or under the responsible charge of professional engineer licensed by the State of Colorado to practice Engineering.

*The Gunnison Basin Roundtable
501 Palmer Street
Delta, CO 81416*

June 14, 2016

Mr. Brent Newman
Water Supply Management Section
COLORADO WATER CONSERVATION BOARD
1313 Sherman St., Room 718
Denver, CO 80203

Re: WSRA Grant Request: Shavano Conservation District – Ditch Mapping of Colona Area

Dear Mr. Newman:

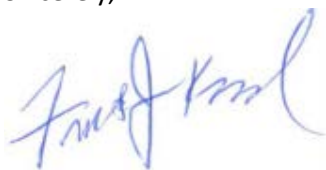
This letter is presented to advise you that the grant application submitted by the Shavano Conservation District for \$13,658 from Basin Account funds from the Water Supply Reserve Account for the Ditch Mapping of Colona Area project was reviewed by the Gunnison Basin Roundtable and its Project Screening Committee and was approved by a unanimous vote of the Gunnison Basin Roundtable during our meeting on June 6, 2016.

This water activity meets the provisions of Section 37-75-104(2), Colorado Revised Statutes. The requirements/language from the statute is provided in Part 3 of the Criteria and Guidelines.

The primary purpose of this project is digital mapping of ditches near the Colona area and will address nonconsumptive and agricultural water supplies. Completion of this ditch mapping project will enable ditch owners in this area to apply for BOR Salinity program funding for improvement which will have agricultural and water quality related environmental benefits.

Thank you for your help in processing this WSRA grant request.

Sincerely,



Frank J. Kugel
Vice Chair

cc: Hugh Sanburg (e-mail)
Tom Alvey (e-mail)
Craig Godbout (e-mail)



COLORADO WATER CONSERVATION BOARD

WATER SUPPLY RESERVE ACCOUNT APPLICATION FORM



Today's Date: May 2, 2016

Ditch Mapping of Colona Area

Name of Water Activity/Project

Shavano Conservation District

Name of Applicant

Gunnison Basin

Amount from Statewide Account:

- 0 -

Amount from Basin Account(s):

\$ 13,658

Total WSRA Funds Requested:

\$ 13,658

Approving Basin Roundtable(s)

(If multiple basins specify amounts in parentheses.)

FEIN: 84-6000225

Application Content

Application Instructions	page 2
Part I – Description of the Applicant	page 3
Part II – Description of the Water Activity	page 5
Part III – Threshold and Evaluation Criteria	page 7
Part IV – Required Supporting Material	
Water Rights, Availability, and Sustainability	page 10
Related Studies	page 10
Signature Page	page 12

Required Exhibits

- A. Statement of Work, Budget, and Schedule
- B. Project Map
- C. As Needed (i.e. letters of support, photos, maps, etc.)

Appendices – Reference Material

- 1. Program Information
- 2. Insurance Requirements
- 3. WSRA Standard Contract Information (Required for Projects Over \$100,000)
- 4. W-9 Form (Required for All Projects Prior to Contracting)

Instructions

To receive funding from the Water Supply Reserve Account (WSRA), a proposed water activity must be approved by the local Basin Roundtable **AND** the Colorado Water Conservation Board (CWCB). The process for Basin Roundtable consideration and approval is outlined in materials in Appendix 1.

Once approved by the local Basin Roundtable, the applicant should submit this application **with a detailed statement of work including budget and schedule as Exhibit A** to CWCB staff by the application deadline.

WSRA applications are due with the roundtable letter of support 60 calendar days prior to the bi-monthly Board meeting at which it will be considered. Board meetings are held in January, March, May, July, September, and November. Meeting details, including scheduled dates, agendas, etc. are posted on the CWCB website at: <http://cwcb.state.co.us> Applications to the WSRA Basin Account are considered at every board meeting, while applications to the WSRA Statewide Account are only considered at the March and September board meetings.

When completing this application, the applicant should refer to the WSRA Criteria and Guidelines available at: <http://cwcb.state.co.us/LoansGrants/water-supply-reserve-account-grants/Documents/WSRACriteriaGuidelines.pdf>. In addition, the applicant should also refer to the [Supplemental Scoring Matrix](#) applied to Evaluation Criteria Tiers 1-3 for Statewide Account requests .

The application, statement of work, budget, and schedule **must be submitted in electronic format** (Microsoft Word or text-enabled PDF are preferred) and can be emailed or mailed on a disk to:

Craig Godbout - WSRA Application
Colorado Water Conservation Board
1313 Sherman St., Room 721
Denver, CO 80203
Craig.godbout@state.co.us

If you have questions or need additional assistance, please contact Craig Godbout at: 303-866-3441 x3210 or craig.godbout@state.co.us.

Part I. - Description of the Applicant (Project Sponsor or Owner);

1.	Applicant Name(s):	Shavano Conservation District		
	Mailing address:	102 Par Place, Suite# 4 Montrose, CO 81401		
	FEIN #:	84-6000225		
	Primary Contact:	Bert Earle	Position/Title:	District Manager
	Email:	bertha.earle@co.nacdnet.net		
	Phone Numbers:	Cell:	Office:	970-249-8407 ext. 115
	Alternate Contact:	Ken Lipton	Position/Title:	Board President
	Email:	klipton@ouraynet.com		
	Phone Numbers:	Cell:	Office:	970-626-3951

2. Eligible entities for WSRA funds include the following. What type of entity is the Applicant?

- ☐ Public (Government) – municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities and the local entity should be the grant recipient. Federal agencies are eligible, but only if they can make a compelling case for why a local partner cannot be the grant recipient.
- ☒ Public (Districts) – authorities, Title 32/special districts, (conservancy, conservation, and irrigation districts), and water activity enterprises.
- ☐ Private Incorporated – mutual ditch companies, homeowners associations, corporations.
- ☐ Private individuals, partnerships, and sole proprietors are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
- ☐ Non-governmental organizations – broadly defined as any organization that is not part of the government.

3. Provide a brief description of your organization

Colorado's 76 conservation districts were established in 1937 to represent private landowners' interests in conservation planning and programs. Conservation Districts serve as local partners in state and federal programs, working in close partnership with the USDA-Natural Resources Conservation Service. Each district is governed by an elected board of supervisors comprised of local landowners and agricultural producers. The Shavano District encompasses 1,191,438 acres including all of Ouray County and portions of Montrose, Gunnison and Delta Counties. As a designated salinity control area, Shavano Conservation District holds salinity control as a top priority .

4. If the Contracting Entity is different then the Applicant (Project Sponsor or Owner) please describe the Contracting Entity here.

Same

5 . Successful applicants will have to execute a contract with the CWCB prior to beginning work on the portion of the project funded by the WSRA grant. In order to expedite the contracting process the CWCB has established a standard contract with provisions the applicant must adhere to. A link to this standard contract is included in Appendix 3. Please review this contract and check the appropriate box.

☒

The Applicant will be able to contract with the CWCB using the Standard Contract

☐

The Applicant has reviewed the standard contract and has some questions/issues/concerns. Please be aware that any deviation from the standard contract could result in a significant delay between grant approval and the funds being available.

6. The Tax Payer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect the applicant.

None

Part II. - Description of the Water Activity/Project

1. What is the primary purpose of this grant application? (Please check only one)

☒

Nonconsumptive (Environmental or Recreational)

☒

Agricultural

☐

Municipal/Industrial

☐

Needs Assessment

☐

Education

☒

Other

Explain:

Digital mapping of ditches near Colona

2. If you feel this project addresses multiple purposes please explain.

Completion of this ditch mapping will enable area ditches to apply for BOR Salinity Program funding of improvements which would have agricultural as well as water quality related environmental benefits.

3. Is this project primarily a study or implementation of a water activity/project? (Please check only one)

☒

Study

☐

Implementation

4. To catalog measurable results achieved with WSRA funds can you provide any of the following numbers?

New Storage Created (acre-feet)

New Annual Water Supplies Developed, Consumptive or Nonconsumptive (acre-feet)

Existing Storage Preserved or Enhanced (acre-feet)

Length of Stream Restored or Protected (linear feet)

Length of Pipe/Canal Built or Improved (linear feet)

Efficiency Savings (acre-feet/year OR dollars/year – **circle one**)

Area of Restored or Preserved Habitat (acres)

☒

Other -- Explain:

Digital mapping and operational documentation for 12 ditches

4. To help us map WSRA projects please include a map (Exhibit B) and provide the general coordinates below:

Latitude:

38.325186

Longitude:

-107.779860

5. Please provide an overview/summary of the proposed water activity (no more than one page). Include a description of the overall water activity and specifically what the WSRA funding will be used for. A full **Statement of Work** with a detailed budget and schedule is required as **Exhibit A** of this application.

This application requests funding to complete the GIS ditch mapping efforts in the Colona area. Digital mapping of irrigation ditches and documentation of their operations is required by the Bureau of Reclamation for calculation of salt loads contributing to salinity in the Colorado River system. These salt loads must be established by the BOR for a ditch company to be eligible to apply for grants offered through the BOR-Basinwide Salinity Control Program. Ditch companies in the Colona area have expressed interest in applying for funds through this program to pipe portions of their irrigation delivery canals, however they are unable to do so until ditch mapping is completed in this area. The BOR has expended \$98,000 on the ditch mapping effort in the Lower Gunnison Basin over the past 3 years, and has no more funds available to complete this work in the Upper Uncompahgre area. Because interest in applying for federal funds to improve irrigations ditches has been expressed in the Colona area, and the ditch mapping work has been initiated, the Shavano Conservation District is seeking funds to complete the effort in this targeted area.

Part III. – Threshold and Evaluation Criteria

1. Describe how the water activity meets these **Threshold Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines.)
- a) The water activity is consistent with Section 37-75-102 Colorado Revised Statutes.¹

This project will not impact water rights.
 - b) The water activity underwent an evaluation and approval process and was approved by the Basin Roundtable (BRT) and the application includes a description of the results of the BRT's evaluation and

¹ 37-75-102. Water rights - protections. (1) It is the policy of the General Assembly that the current system of allocating water within Colorado shall not be superseded, abrogated, or otherwise impaired by this article. Nothing in this article shall be interpreted to repeal or in any manner amend the existing water rights adjudication system. The General Assembly affirms the state constitution's recognition of water rights as a private usufructuary property right, and this article is not intended to restrict the ability of the holder of a water right to use or to dispose of that water right in any manner permitted under Colorado law. (2) The General Assembly affirms the protections for contractual and property rights recognized by the contract and takings protections under the state constitution and related statutes. This article shall not be implemented in any way that would diminish, impair, or cause injury to any property or contractual right created by intergovernmental agreements, contracts, stipulations among parties to water cases, terms and conditions in water decrees, or any other similar document related to the allocation or use of water. This article shall not be construed to supersede, abrogate, or cause injury to vested water rights or decreed conditional water rights. The General Assembly affirms that this article does not impair, limit, or otherwise affect the rights of persons or entities to enter into agreements, contracts, or memoranda of understanding with other persons or entities relating to the appropriation, movement, or use of water under other provisions of law.

approval of the activity. At a minimum, the description must include the level of agreement reached by the roundtable, including any minority opinion(s) if there was not general agreement for the activity. The description must also include reasons why general agreement was not reached (if it was not), including who opposed the activity and why they opposed it. Note- If this information is included in the letter from the roundtable chair simply reference that letter.

This application will be submitted for consideration by the Gunnison Basin Roundtable by May 2, 2016.

- c) The water activity meets the provisions of Section 37-75-104(2), Colorado Revised Statutes.² The Basin Roundtable Chairs shall include in their approval letters for particular WSRA grant applications a description of how the water activity will assist in meeting the water supply needs identified in the basin roundtable's consumptive and/or non-consumptive needs assessments.

Completion of the ditch mapping effort is essential for the Colona area ditches to apply for significant federal funds available to finance piping projects. As such, this project facilitates the ability to seek federal funds to meet the following goals identified in the Gunnison Basin Implementation Plan:

1. Protects existing water uses in the Gunnison Basin;
2. Discourages conversion of productive agricultural land to other uses;
3. Improves agricultural water supplies to reduce shortages;
4. ...
5. ...
6. Improves water quality;
7. ...
8. Restores, maintains, and modernizes critical water infrastructure.

The BOR-Basinwide Salinity Control Program typically offers \$40M in grants every three years for ditch improvement projects in the Upper Colorado River Basin.

- d) Matching Requirement: For requests from the **Statewide Fund**, the applicants will be required to demonstrate a **25 percent** (or greater) match of the total grant request from the other sources, including by not limited to Basin Funds. A minimum match of 5% of the total grant amount shall be from Basin funds. A minimum match of 5% of the total grant amount must come from the applicant or 3rd party sources. Sources of matching funds include but are not limited to Basin Funds, in-kind

² 37-75-104 (2)(c). Using data and information from the Statewide Water Supply Initiative and other appropriate sources and in cooperation with the on-going Statewide Water Supply Initiative, develop a basin-wide consumptive and nonconsumptive water supply needs assessment, conduct an analysis of available unappropriated waters within the basin, and propose projects or methods, both structural and nonstructural, for meeting those needs and utilizing those unappropriated waters where appropriate. Basin Roundtables shall actively seek the input and advice of affected local governments, water providers, and other interested stakeholders and persons in establishing its needs assessment, and shall propose projects or methods for meeting those needs. Recommendations from this assessment shall be forwarded to the Interbasin Compact Committee and other basin roundtables for analysis and consideration after the General Assembly has approved the Interbasin Compact Charter.

services, funding from other sources, and/or direct cash match. Past expenditures directly related to the project may be considered as matching funds if the expenditures occurred within 9 months of the date the contract or purchase order between the applicant and the State of Colorado is executed. Please describe the source(s) of matching funds. (NOTE: These matching funds should also be reflected in your Detailed Budget in **Exhibit A** of this application)

A total of \$98,000 has been spent to complete GIS ditch mapping in the Lower Gunnison Basin. The Shavano Conservation District has been granted \$29,000 to complete this work within their district.

Limiting the budget analysis to the past 9 months:

Funds Expended in Upper Uncompahgre	\$ 2,913	15 %
Shavano CD administration, in-kind	\$ 1,500	8 %
Trout Unlimited, in-kind contribution	\$ 700	4 %
Trout Unlimited contribution	\$ 500	3%
<u>Requested WSRA Funds</u>	<u>\$ 13,658</u>	<u>84 %</u>
Total Project Costs	\$ 19,271	100%

Contributions from Trout Unlimited facilitate inclusion of mapping the Hayes Teague and Chaffee ditches in this project. TU in-kind contribution is provided by Cary Denison, 28 hours of work at \$25/hour to collect GIS and operational data.

2. For Applications that include a request for funds from the **Statewide Account**, describe how the water activity/project meets all applicable **Evaluation Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines and repeated below.) Projects will be assessed on how well they meet the Evaluation Criteria. **Please attach additional pages as necessary.**

Evaluation Criteria – the following criteria will be utilized to further evaluate the merits of the water activity proposed for funding from the Statewide Account. In evaluation of proposed water activities, preference will be given to projects that meet one or more criteria from each of the three “tiers” or categories. Each “tier” is grouped in level of importance. For instance, projects that meet Tier 1 criteria will outweigh projects that only meet Tier 3 criteria. The applicant should also refer to the Supplemental Scoring Matrix applied to Evaluation Criteria Tiers 1-3 for Statewide Account requests. WSRA grant requests for projects that may qualify for loans through the CWCB loan program will receive preference in the Statewide Evaluation Criteria if the grant request is part of a CWCB loan/WSRA grant package. For these CWCB loan/WSRA grant packages, the applicant must have a CWCB loan/WSRA grant ratio of 1:1 or higher. Preference will be given to those with a higher loan/grant ratio.

Tier 1: Promoting Collaboration/Cooperation and Meeting Water Management Goals and Identified Water Needs

- a. The water activity addresses multiple needs or issues, including consumptive and/or non-consumptive needs, or the needs and issues of multiple interests or multiple basins. This can be demonstrated by obtaining letters of support from other basin roundtables (in addition to an approval letter from the sponsoring basin).
- b. The number and types of entities represented in the application and the degree to which the activity will promote cooperation and collaboration among traditional consumptive water interests and/or non-consumptive interests, and if applicable, the degree to which the water activity is effective in addressing intrabasin or interbasin needs or issues.
- c. The water activity helps implement projects and processes identified as helping meet Colorado’s future water needs, and/or addresses the gap areas between available water supply and future need as identified in SWSI or a roundtable’s basin-wide water needs assessment.

Tier 2: Facilitating Water Activity Implementation

- d. Funding from this Account will reduce the uncertainty that the water activity will be implemented. For this criterion the applicant should discuss how receiving funding from the Account will make a significant difference in the implementation of the water activity (i.e., how will receiving funding enable the water activity to move forward or the inability obtaining funding elsewhere).
- e. The amount of matching funds provided by the applicant via direct contributions, demonstrable in-kind contributions, and/or other sources demonstrates a significant & appropriate commitment to the project.

Tier 3: The Water Activity Addresses Other Issues of Statewide Value and Maximizes Benefits

- f. The water activity helps sustain agriculture & open space, or meets environmental or recreational needs.
- g. The water activity assists in the administration of compact-entitled waters or addresses problems related to compact entitled waters and compact compliance and the degree to which the activity promotes maximum utilization of state waters.
- h. The water activity assists in the recovery of threatened and endangered wildlife species or Colorado State species of concern.
- i. The water activity provides a high level of benefit to Colorado in relationship to the amount of funds requested.
- j. The water activity is complimentary to or assists in the implementation of other CWCB programs.

Continued: Explanation of how the water activity/project meets all applicable **Evaluation Criteria**.
Please attach additional pages as necessary.

This application is submitted for Basin funds only.

Part IV. – Required Supporting Material

1. **Water Rights, Availability, and Sustainability** – This information is needed to assess the viability of the water project or activity. Please provide a description of the water supply source to be utilized, or the water body to be affected by, the water activity. This should include a description of applicable water rights, and water rights issues, and the name/location of water bodies affected by the water activity.

NA

2. Please provide a brief narrative of any related studies or permitting issues.

Since 2009, 122 ditches have been documented, with 730 miles of canal digitized in the Lower Gunnison basin, coordinated by Shavano and Delta Conservation Districts. The BOR-Basinwide Salinity Control Program, which relies on this ditch mapping data to rank the cost effectiveness of project applications, has awarded nearly \$90M to fund irrigation system improvements in the Lower Gunnison basin. Completion of this proposed project will extend eligibility to apply for these funds to another 12 ditches including 34 miles of canal.

3. Statement of Work, Detailed Budget, and Project Schedule

The statement of work will form the basis for the contract between the Applicant and the State of Colorado. In short, the Applicant is agreeing to undertake the work for the compensation outlined in the statement of work and budget, and in return, the State of Colorado is receiving the deliverables/products specified. **Please note that costs incurred prior to execution of a contract or purchase order are not subject to reimbursement.** All WSRA funds are disbursed on a reimbursement basis after review invoices and appropriate backup material.

Please provide a detailed statement of work using the template in Exhibit A. Additional sections or modifications may be included as necessary. Please define all acronyms and include page numbers.

REPORTING AND FINAL DELIVERABLE

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the statement of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

PAYMENT

Payment will be made based on actual expenditures and invoicing by the applicant. Invoices from any other entity (i.e. subcontractors) cannot be processed by the State. The request for payment must include a description of the work accomplished by major task, and estimate of the percent completion for individual tasks and the entire water activity in relation to the percentage of budget spent, identification of any major issues and proposed or implemented corrective actions. The last 10 percent of the entire water activity budget will be withheld until final project/water activity documentation is completed. All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and help promote the development of a common technical platform.

The above statements are true to the best of my knowledge:

Signature of Applicant:

Print Applicant's Name: Ken Lipton, Board President

Project Title: GIS Ditch Mapping in the Upper Uncompaghre/Colona Area

Date: May 2, 2016

Return an electronic version (hardcopy may also be submitted) of this application to:

Craig Godbout – WSRA Application
Colorado Water Conservation Board
1313 Sherman St., Room 721
Denver, CO 80203
303-866-3441, ext. 3210 (office)
303-547-8061 (cell)
craig.godbout@state.co.us

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
July 20-21, 2016
Agenda Item 16(f)

Applicant & Fiscal Agent: Bauer Lake Water Company

Water Activity Name: Jackson Lake/Bauer Lake #2 Ditch Upgrade Project

Water Activity Purpose: Agricultural

County: Montezuma

Drainage Basin: Southwest

Water Source: Chicken Creek, Mancos River and Jackson Lake

Amount Requested/Source of Funds: \$55,000 Southwest Basin Account
\$55,000 Total Grant Request

Matching Funds: Applicant Match (\$3,000: in-kind) = 5.5% of total project costs (\$58,000)
(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:

Staff recommends approval of up to \$55,000 from the Southwest Basin Account to help fund the project titled: Jackson Lake/Bauer Lake #2 Ditch Upgrade Project.

Water Activity Summary: WSRA funds, if approved, will be expended to fund the replacement of a diversion dam, headgate, conveyance pipe and Parshall Flume in the Bauer Lake Ditch. The existing 36” conveyance pipe will be replaced with approximately 100 feet of 53” elliptical pipe, and both the Jackson Gulch ditch, and the Bauer Lake ditch will undergo additional cleaning, grading and berm work to improve water delivery efficiencies. These facilities are used to irrigate over 1200 acres of land that produces grains, produce, alfalfa and grass used for hay and pasture land.

Discussion: This project meets the goals and objectives identified in the Southwest Basin Implementation Plan. This project is a component of the Mancos Sub Basin IPP 9-M and is consistent with the Multi-Basin IPP addressing “Ditch Company Improvements and Efficiency Project”.

Issues/Additional Needs: No issues or additional needs have been identified.

Threshold and Evaluation Criteria:

The application meets all four Threshold Criteria.

Tier 1-3 Evaluation Criteria: n/a

Funding Summary/Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
Bauer Lake Water Company	\$0	\$3,000	\$3,000
WSRA Southwest Basin Account	\$55,000	n/a	\$55,000
Total Project Costs	\$55,000	\$3,000	\$58,000

CWCB Project Manager: Craig Godbout

All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and will help promote the development of a common technical platform. In accordance with the revised WSRA Criteria and Guidelines, staff would like to highlight additional reporting and final deliverable requirements. The specific requirements are provided below.

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the scope of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

Engineering: All engineering work (as defined in the Engineers Practice Act (§12-25-102(10) C.R.S.)) performed under this grant shall be performed by or under the responsible charge of professional engineer licensed by the State of Colorado to practice Engineering.

SOUTHWEST BASINS ROUNDTABLE

Michael Preston, Chair
c/o Dolores Water Conservancy District
P.O. Box 1150
Cortez, Colorado 81321
970-565-7562

April 22, 2016

Mr. Craig Godbout
Water Supply Management Section
Colorado Water Conservation Board
1580 Logan Street, Suite 600
Denver, Colorado 80203

SUBJECT: Jackson Lake-Bauer Lake#2 Ditch Upgrade Project, \$55,000 from Southwest Basin Account

Dear Mr. Godbout:

The Southwest Basin Roundtable approved funding of \$55,000 from the Basin Account for the Jackson Lake-Bauer Lake#2 Ditch Upgrade Project. The application was considered in detail and approved at the April 13, 2016 meeting of the Southwest Basin Roundtable. There was a quorum of Roundtable members present.

The proposed project is part of Mancos Sub Basin IPP 9-M in the Southwest BIP and consistent with the Multi-Basin IPP addressing "Ditch Company Improvement and Efficiency Projects."

The completed Grant Application will be forwarded directly to you by the applicant. Please contact the applicant directly or me at 970-565-7562, mpreston@frontier.net, if you have questions or wish to discuss this application in more detail.

Sincerely,



Michael Preston
Southwest Basin Roundtable Chair



COLORADO WATER CONSERVATION BOARD



WATER SUPPLY RESERVE ACCOUNT APPLICATION FORM

Today's Date: June 8, 2016

Jackson Lake – Bauer Lake #2 Ditch Upgrade Project

Name of Water Activity/Project

Bauer Lake Water Company

Name of Applicant

South West Basin
RoundTable

Amount from Statewide Account:

0

Amount from Basin Account(s):

\$ 55,000

Total WSRA Funds Requested:

\$ 55,000

Approving Basin Roundtable(s)

(If multiple basins specify amounts in parentheses.)

FEIN: 84-0964609

Application Content

Application Instructions	page 2
Part I – Description of the Applicant	page 3
Part II – Description of the Water Activity	page 5
Part III – Threshold and Evaluation Criteria	page 7
Part IV – Required Supporting Material	
Water Rights, Availability, and Sustainability	page 10
Related Studies	page 10
Signature Page	page 12

Required Exhibits

- A. Statement of Work, Budget, and Schedule
- B. Project Map
- C. As Needed (i.e. letters of support, photos, maps, etc.)

Appendices – Reference Material

- 1. Program Information
- 2. Insurance Requirements
- 3. WSRA Standard Contract Information (Required for Projects Over \$100,000)
- 4. W-9 Form (Required for All Projects Prior to Contracting)

Water Supply Reserve Account – Application Form

Revised October 2013

Instructions

To receive funding from the Water Supply Reserve Account (WSRA), a proposed water activity must be approved by the local Basin Roundtable **AND** the Colorado Water Conservation Board (CWCB). The process for Basin Roundtable consideration and approval is outlined in materials in Appendix 1.

Once approved by the local Basin Roundtable, the applicant should submit this application **with a detailed statement of work including budget and schedule as Exhibit A** to CWCB staff by the application deadline.

WSRA applications are due with the roundtable letter of support 60 calendar days prior to the bi-monthly Board meeting at which it will be considered. Board meetings are held in January, March, May, July, September, and November. Meeting details, including scheduled dates, agendas, etc. are posted on the CWCB website at: <http://cwcb.state.co.us> Applications to the WSRA Basin Account are considered at every board meeting, while applications to the WSRA Statewide Account are only considered at the March and September board meetings.

When completing this application, the applicant should refer to the WSRA Criteria and Guidelines available at: <http://cwcb.state.co.us/LoansGrants/water-supply-reserve-account-grants/Documents/WSRACriteriaGuidelines.pdf>. In addition, the applicant should also refer to the [Supplemental Scoring Matrix](#) applied to Evaluation Criteria Tiers 1-3 for Statewide Account requests .

The application, statement of work, budget, and schedule **must be submitted in electronic format** (Microsoft Word or text-enabled PDF are preferred) and can be emailed or mailed on a disk to:

Craig Godbout - WSRA Application
Colorado Water Conservation Board
1313 Sherman St., Room 721
Denver, CO 80203
Craig.godbout@state.co.us

If you have questions or need additional assistance, please contact Craig Godbout at: 303-866-3441 x3210 or craig.godbout@state.co.us.

Water Supply Reserve Account – Application Form

Revised October 2013

Part I. - Description of the Applicant (Project Sponsor or Owner);

1.	Applicant Name(s):	Bauer Lake Water Company			
	Mailing address:	38244 Rd j.5 Mancos CO 81328			
	FEIN #:	084-0964609			
	Primary Contact:	Don Janz	Position/Title:	Secretary	
	Email:	Don.janz69@gmail.com			
	Phone Numbers:	Cell:	9707496184	Office:	
	Alternate Contact:		Position/Title:		
	Email:				
	Phone Numbers:	Cell:		Office:	

2. Eligible entities for WSRA funds include the following. What type of entity is the Applicant?

- ☐ Public (Government) – municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities and the local entity should be the grant recipient. Federal agencies are eligible, but only if they can make a compelling case for why a local partner cannot be the grant recipient.
- ☐ Public (Districts) – authorities, Title 32/special districts, (conservancy, conservation, and irrigation districts), and water activity enterprises.
- ☒ Private Incorporated – mutual ditch companies, homeowners associations, corporations.
- ☐ Private individuals, partnerships, and sole proprietors are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
- ☐ Non-governmental organizations – broadly defined as any organization that is not part of the government.

Water Supply Reserve Account – Application Form

Revised October 2013

3. Provide a brief description of your organization

The Bauer Lake # 2 and Lower Bauer West Lateral also known as the Bauer Lake Water Company is the applicant looking to perform much needed upgrades on the ditch from Jackson Lake to Bauer Lake #2. The ditch is used to transfer 500 plus acre feet of water which is used to irrigate 1200 plus acres of land that produces, produce, grains, grass and alfalfa forage used in the form of pastures and hay ground. (See attached map) We have 29 Members and 87 shares in the lake. We have an annual assessment of \$140 per share for operations, plus loan payments (variable by distance to their location and shares).

This project supports the Southwest Basin Roundtable's Implementation Plan (BIP) "Goal B of Meeting Agricultural Needs". The specific goal is to "implement efficiency measures to maximize beneficial use and production". The project is to implement irrigation system improvements to improve water delivery and maximize beneficial uses. Along with being categorized as a goal of the BIP, this project meets goals within the Colorado Water Plan as well. According to Chapter 10's Critical Agricultural Actions table, this project specifically meets item #3 to "Provide grants, loans, and technical support to update and improve Colorado's aging agricultural infrastructure, especially where improvements provide multiple benefits". This project is the repair and replacement of a ditch and culvert with an estimated age of at least +35 years.

4. If the Contracting Entity is different then the Applicant (Project Sponsor or Owner) please describe the Contracting Entity here.

The company has the means to perform the work and can complete such improvements.

5. Successful applicants will have to execute a contract with the CWCB prior to beginning work on the portion of the project funded by the WSRA grant. In order to expedite the contracting process the CWCB has established a standard contract with provisions the applicant must adhere to. A link to this standard contract is included in Appendix 3. Please review this contract and check the appropriate box.

☒ The Applicant will be able to contract with the CWCB using the Standard Contract

☐ The Applicant has reviewed the standard contract and has some questions/issues/concerns. Please be aware that any deviation from the standard contract could result in a significant delay between grant approval and the funds being available.

6. The Tax Payer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect the applicant.

None

Water Supply Reserve Account – Application Form

Revised October 2013

Part II. - Description of the Water Activity/Project

1. What is the primary purpose of this grant application? (Please check only one)

- | | |
|-------------------------------------|--|
| <input type="checkbox"/> | Nonconsumptive (Environmental or Recreational) |
| <input checked="" type="checkbox"/> | Agricultural |
| <input type="checkbox"/> | Municipal/Industrial |
| <input type="checkbox"/> | Needs Assessment |
| <input type="checkbox"/> | Education |
| <input type="checkbox"/> | Other |

Explain:

2. If you feel this project addresses multiple purposes please explain.

N/A

3. Is this project primarily a study or implementation of a water activity/project? (Please check only one)

- | | | | |
|--------------------------|-------|-------------------------------------|----------------|
| <input type="checkbox"/> | Study | <input checked="" type="checkbox"/> | Implementation |
|--------------------------|-------|-------------------------------------|----------------|

4. To catalog measurable results achieved with WSRA funds can you provide any of the following numbers?

- | | |
|-------------------------------------|--|
| <input type="text"/> | New Storage Created (acre-feet) |
| <input type="text"/> | New Annual Water Supplies Developed, Consumptive or Nonconsumptive (acre-feet) |
| <input type="text"/> | Existing Storage Preserved or Enhanced (acre-feet) |
| <input type="text"/> | Length of Stream Restored or Protected (linear feet) |
| <input type="text" value="11,750"/> | Length of Pipe/Canal Built or Improved (linear feet) |
| <input type="text"/> | Efficiency Savings (acre-feet/year OR dollars/year – circle one) |
| <input type="text"/> | Area of Restored or Preserved Habitat (acres) |
| <input type="text"/> | Other -- Explain: |

Water Supply Reserve Account – Application Form

Revised October 2013

4. To help us map WSRA projects please include a map (Exhibit B) and provide the general coordinates below:

Jackson Lake

Latitude: 37.39875

Longitude: 208.27403

Bauer Lake 37.38255/ 10829837

5. Please provide an overview/summary of the proposed water activity (no more than one page). Include a description of the overall water activity and specifically what the WSRA funding will be used for. A full **Statement of Work** with a detailed budget and schedule is required as **Exhibit A** of this application.

This project will incorporate several segments (A,B,C and D) which are all along the 11,000 foot of ditch, which is requiring repair work and upgrade improvements in order to achieve water transfer efficiency. All of this work will be part of this grant.

- A. The Headgate and the Diversion dam between Bauer Lake and Chicken Creek is in desperate need of repairs/ improvements. At Jackson Gulch the ditch will also need repairing along with the headgate in order for water to flow efficient to Chicken Creek. They have not had any major work done in 35+- years.
- B. After a slide several years ago, cracking occurred which made a leak, and a 36" diameter pipe was installed to bridge the damaged area. Now the pipe and the ditch grade in this area causes the water to back up and limits water flow. Possible fixes may include removing it completely (the cracks may have healed over the years}, or replacing the 36" with a larger 48" pipe (approximately 100 ft. long), and re-grading the ditch on both sides to allow better flow and elevation grade control.
- C. This area has exposed sandstone that is a foot above the desired grade, which is limiting flow. It needs to be excavated down to the appropriate grade which due to the location, getting a large enough piece of equipment in there to rip this section is not feasible, so we are looking at the possibility of using Dexpan in order to achieve the required grade.
- D. The Parshall Flume is in need of replacement to accurately measure flow.

Water Supply Reserve Account – Application Form

Revised October 2013

Part III. – Threshold and Evaluation Criteria

1. Describe how the water activity meets these **Threshold Criteria.** (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines.)

- a) The water activity is consistent with Section 37-75-102 Colorado Revised Statutes.¹

Yes the water activity is consistent with this section. No water rights or property rights will be jeopardized by this project.

- b) The water activity underwent an evaluation and approval process and was approved by the Basin Roundtable (BRT) and the application includes a description of the results of the BRT's evaluation and approval of the activity. At a minimum, the description must include the level of agreement reached by the roundtable, including any minority opinion(s) if there was not general agreement for the activity. The description must also include reasons why general agreement was not reached (if it was not), including who opposed the activity and why they opposed it. Note- If this information is included in the letter from the roundtable chair simply reference that letter.

Yes the application was approved at the last BRT meeting and all information requested is included in the letter from the Roundtable chair.

¹ 37-75-102. Water rights - protections. (1) It is the policy of the General Assembly that the current system of allocating water within Colorado shall not be superseded, abrogated, or otherwise impaired by this article. Nothing in this article shall be interpreted to repeal or in any manner amend the existing water rights adjudication system. The General Assembly affirms the state constitution's recognition of water rights as a private usufructuary property right, and this article is not intended to restrict the ability of the holder of a water right to use or to dispose of that water right in any manner permitted under Colorado law. (2) The General Assembly affirms the protections for contractual and property rights recognized by the contract and takings protections under the state constitution and related statutes. This article shall not be implemented in any way that would diminish, impair, or cause injury to any property or contractual right created by intergovernmental agreements, contracts, stipulations among parties to water cases, terms and conditions in water decrees, or any other similar document related to the allocation or use of water. This article shall not be construed to supersede, abrogate, or cause injury to vested water rights or decreed conditional water rights. The General Assembly affirms that this article does not impair, limit, or otherwise affect the rights of persons or entities to enter into agreements, contracts, or memoranda of understanding with other persons or entities relating to the appropriation, movement, or use of water under other provisions of law.

Water Supply Reserve Account – Application Form

Revised October 2013

- c) The water activity meets the provisions of Section 37-75-104(2), Colorado Revised Statutes.² The Basin Roundtable Chairs shall include in their approval letters for particular WSRA grant applications a description of how the water activity will assist in meeting the water supply needs identified in the basin roundtable's consumptive and/or non-consumptive needs assessments.

The information requested is included in the letter from the Roundtable chair.

- d) Matching Requirement: For requests from the **Statewide Fund**, the applicants will be required to demonstrate a **25 percent** (or greater) match of the total grant request from the other sources, including by not limited to Basin Funds. A minimum match of 5% of the total grant amount shall be from Basin funds. A minimum match of 5% of the total grant amount must come from the applicant or 3rd party sources. Sources of matching funds include but are not limited to Basin Funds, in-kind services, funding from other sources, and/or direct cash match. Past expenditures directly related to the project may be considered as matching funds if the expenditures occurred within 9 months of the date the contract or purchase order between the applicant and the State of Colorado is executed. Please describe the source(s) of matching funds. (NOTE: These matching funds should also be reflected in your Detailed Budget in **Exhibit A** of this application)

Bauer Lake Water Company will provide in-kind services for its 5% match

² 37-75-104 (2)(c). Using data and information from the Statewide Water Supply Initiative and other appropriate sources and in cooperation with the on-going Statewide Water Supply Initiative, develop a basin-wide consumptive and nonconsumptive water supply needs assessment, conduct an analysis of available unappropriated waters within the basin, and propose projects or methods, both structural and nonstructural, for meeting those needs and utilizing those unappropriated waters where appropriate. Basin Roundtables shall actively seek the input and advice of affected local governments, water providers, and other interested stakeholders and persons in establishing its needs assessment, and shall propose projects or methods for meeting those needs. Recommendations from this assessment shall be forwarded to the Interbasin Compact Committee and other basin roundtables for analysis and consideration after the General Assembly has approved the Interbasin Compact Charter.

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2. For Applications that include a request for funds from the **Statewide Account**, describe how the water activity/project meets all applicable **Evaluation Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines and repeated below.) Projects will be assessed on how well they meet the Evaluation Criteria. **Please attach additional pages as necessary.**

Evaluation Criteria – the following criteria will be utilized to further evaluate the merits of the water activity proposed for funding from the Statewide Account. In evaluation of proposed water activities, preference will be given to projects that meet one or more criteria from each of the three “tiers” or categories. Each “tier” is grouped in level of importance. For instance, projects that meet Tier 1 criteria will outweigh projects that only meet Tier 3 criteria. The applicant should also refer to the Supplemental Scoring Matrix applied to Evaluation Criteria Tiers 1-3 for Statewide Account requests. WSRA grant requests for projects that may qualify for loans through the CWCB loan program will receive preference in the Statewide Evaluation Criteria if the grant request is part of a CWCB loan/WSRA grant package. For these CWCB loan/WSRA grant packages, the applicant must have a CWCB loan/WSRA grant ratio of 1:1 or higher. Preference will be given to those with a higher loan/grant ratio.

Tier 1: Promoting Collaboration/Cooperation and Meeting Water Management Goals and Identified Water Needs

- a. The water activity addresses multiple needs or issues, including consumptive and/or non-consumptive needs, or the needs and issues of multiple interests or multiple basins. This can be demonstrated by obtaining letters of support from other basin roundtables (in addition to an approval letter from the sponsoring basin).
- b. The number and types of entities represented in the application and the degree to which the activity will promote cooperation and collaboration among traditional consumptive water interests and/or non-consumptive interests, and if applicable, the degree to which the water activity is effective in addressing intrabasin or interbasin needs or issues.
- c. The water activity helps implement projects and processes identified as helping meet Colorado’s future water needs, and/or addresses the gap areas between available water supply and future need as identified in SWSI or a roundtable’s basin-wide water needs assessment.

Tier 2: Facilitating Water Activity Implementation

- d. Funding from this Account will reduce the uncertainty that the water activity will be implemented. For this criterion the applicant should discuss how receiving funding from the Account will make a significant difference in the implementation of the water activity (i.e., how will receiving funding enable the water activity to move forward or the inability obtaining funding elsewhere).
- e. The amount of matching funds provided by the applicant via direct contributions, demonstrable in-kind contributions, and/or other sources demonstrates a significant & appropriate commitment to the project.

Tier 3: The Water Activity Addresses Other Issues of Statewide Value and Maximizes Benefits

- f. The water activity helps sustain agriculture & open space, or meets environmental or recreational needs.
- g. The water activity assists in the administration of compact-entitled waters or addresses problems related to compact entitled waters and compact compliance and the degree to which the activity promotes maximum utilization of state waters.
- h. The water activity assists in the recovery of threatened and endangered wildlife species or Colorado State species of concern.
- i. The water activity provides a high level of benefit to Colorado in relationship to the amount of funds requested.

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j. The water activity is complimentary to or assists in the implementation of other CWCB programs.
Continued: Explanation of how the water activity/project meets all applicable **Evaluation Criteria**.

Please attach additional pages as necessary

N/A

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Part IV. – Required Supporting Material

1. **Water Rights, Availability, and Sustainability** – This information is needed to assess the viability of the water project or activity. Please provide a description of the water supply source to be utilized, or the water body to be affected by, the water activity. This should include a description of applicable water rights, and water rights issues, and the name/location of water bodies affected by the water activity.

Jackson Lake to Bauer Lake headgate and diversion improvements and repair of an existing ditch that moves 500 acre feet of water rights for several of our shareholders. The project will assist in maintaining irrigation rights in the Mancos River Valley and continue to provide reliable delivery of the water supply. The project will be constructed in the off irrigation season to prevent affecting any users.

2. Please provide a brief narrative of any related studies or permitting issues.

No related studies or permitting issues on this project

3. Statement of Work, Detailed Budget, and Project Schedule

The statement of work will form the basis for the contract between the Applicant and the State of Colorado. In short, the Applicant is agreeing to undertake the work for the compensation outlined in the statement of work and budget, and in return, the State of Colorado is receiving the deliverables/products specified. **Please note that costs incurred prior to execution of a contract or purchase order are not subject to reimbursement.** All WSRA funds are disbursed on a reimbursement basis after review invoices and appropriate backup material.

Please provide a detailed statement of work using the template in Exhibit A. Additional sections or

Water Supply Reserve Account – Application Form
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modifications may be included as necessary. Please define all acronyms and include page numbers.

REPORTING AND FINAL DELIVERABLE

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the statement of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

PAYMENT

Payment will be made based on actual expenditures and invoicing by the applicant. Invoices from any other entity (i.e. subcontractors) cannot be processed by the State. The request for payment must include a description of the work accomplished by major task, and estimate of the percent completion for individual tasks and the entire water activity in relation to the percentage of budget spent, identification of any major issues and proposed or implemented corrective actions. The last 10 percent of the entire water activity budget will be withheld until final project/water activity documentation is completed. All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and help promote the development of a common technical platform.

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The above statements are true to the best of my knowledge:

Signature of Applicant: *Don R. Janz*

Print Applicant's Name: Don R. Janz

Project Title: Jackson Lake Bauer Lake #2 Ditch Upgrade Project

Date: June 8, 2016

Return an electronic version (hardcopy may also be submitted) of this application to:

Craig Godbout – WSRA Application
Colorado Water Conservation Board
1313 Sherman St., Room 721
Denver, CO 80203
303-866-3441, ext. 3210 (office)
303-547-8061 (cell)
craig.godbout@state.co.us

Exhibit A
Statement of Work
Date: June 8, 2016

WATER ACTIVITY NAME-Jackson Lake- Bauer Lake #2 Ditch upgrade

GRANT RECIPIENT- Bauer Lake Water Company

FUNDING SOURCE - Basin Account

INTRODUCTION AND BACKGROUND

The Bauer Lake #2 and Lower Bauer West Lateral also known as the Bauer Lake Water Company is in need of upgrades. This irrigation company is comprised of two ditches. One ditch goes from Jackson Lake to Bauer Lake #2 and is in desperate need of repairs. The other ditch involved goes down the Chicken Creek canyon and picks up the water from the Jackson ditch to take it to the Lower Bauer lake. These ditches are used to transfer 500 plus acre feet of water for agriculture use. This water is used to irrigate over 1200 acres of land that produces grains, produce, alfalfa and grass used for hay and pasture land. (see attached map)

OBJECTIVES

The objective of this project is to provide a permanent fix on an existing ditch that has not seen any major repairs performed in over 35 years. This will include repairing and improving Head-gate structure, excavating sandstone, replacing a Parshall Flume, and cleaning and grading ditches in order to improve water flow efficiency. A construction company familiar with this type of work will be contracted.

TASKS

This project will incorporate several segments requiring repair work and upgrade improvements in order to achieve water transfer efficiency.

TASK 1- This project will incorporate several segments, but only one task requiring repair work and upgrade improvements in order to achieve water transfer efficiency. (see attached drawing)

A. The Head-gate and the Diversion Dam between Bauer Lake and Chicken Creek is in desperate need of repairs/improvements. At Jackson Gulch the ditch will also need repairing along with cleaning for the water to flow efficiently to Chicken Creek so it than can be diverted into the Bauer Lake Ditch. They have not had any major work done in 35+ years.

B. After a slide several years ago, cracking occurred in the Bauer Lake ditch making a large leak. A 36" pipe was installed to bridge the damaged area. Now that pipe and the ditch grade in the area causes the water to back up and limits water flow. The fix will include removing the pipe completely and replacing the 36" pipe with a larger 53" squash pipe (approximately 100 ft. long), and re-grading the ditch on both sides to improve water flow and elevation grade control.

C. The Bauer Lake ditch has exposed sandstone that limits the water flow because it is a foot above the desired grade. The sandstone will be removed down to the appropriate grade. Due to the location it is not feasible to get a large piece of equipment to the area to rip this section. The rock will have to be drilled and a product called Dexpan will be used to crack and break up the sandstone so removal of the sandstone can be completed in order to achieve required grade.

D. The Parshall Flume in Bauer Lake ditch is damaged and does not measure the water flow accurately. This will be replaced.

E. After accomplishing segments A-D additional ditch cleaning, grading and berm work will be necessary to accommodate the increased flow in other parts of the Bauer Lake Ditch.

BUDGET

Provide a detailed budget by task including number of hours and rates for labor and unit costs for other direct costs (i.e. mileage, \$/unit of material for construction, etc.). A detailed and perfectly balanced budget that shows all costs is required for the State's contracting and purchase order processes. Sample budget tables are provided below. Please note that these budget tables are examples and will need to be adapted to fit each individual application. Tasks should correspond to the tasks described above.

Materials	Labor	Equipment
53" x41"x 100' Squash pipe/bands and flared ends plus freight \$ 11,000	Labor will consist of a 6 man crew working 600 man-hours at \$25 an hour for the duration of the project.	Mini Excavator
1 Head gate \$ 3,000		Backhoe
Parshall Flume \$ 2,500		Skid Steers
176# of Dexpan \$ 600.00		UTV's
Concrete structures around head gate/diversion dam, flumes and existing structures. \$ 12,900		Generator, Air Compressor
		Hammer Drill
		Portable Welder/Torch
\$ 30,000	\$ 15,000	\$ 30,000.00

In-Kind Contributions (If Applicable)				
Project Personnel:	super	inspector		
Hourly Rate:	25	25		Total
Task 1 -	1	1		2
Task 2 -	n/a	n/a		
Total Hours:	60	60		120
Total Cost:	1500	1500		3000

Time Line- Assuming PO issuance in September

September 19, 2016

Initial gathering of equipment, supplies, and materials

Starting with Segment A estimated time of completion 1 week.

September 26, 2016

Segment C estimated time of completion 1 week.

October 3, 2016

Segment D estimated time of completion 1 week.

October 10, 2016

Segment B and E estimated time of completion 1 week.

Segments A, B, C, D, and E are anticipated to take 4 weeks and are desired to be completed the fall of 2016. Weather depending one or more segments maybe held over to spring of 2017 if not able to complete this year.

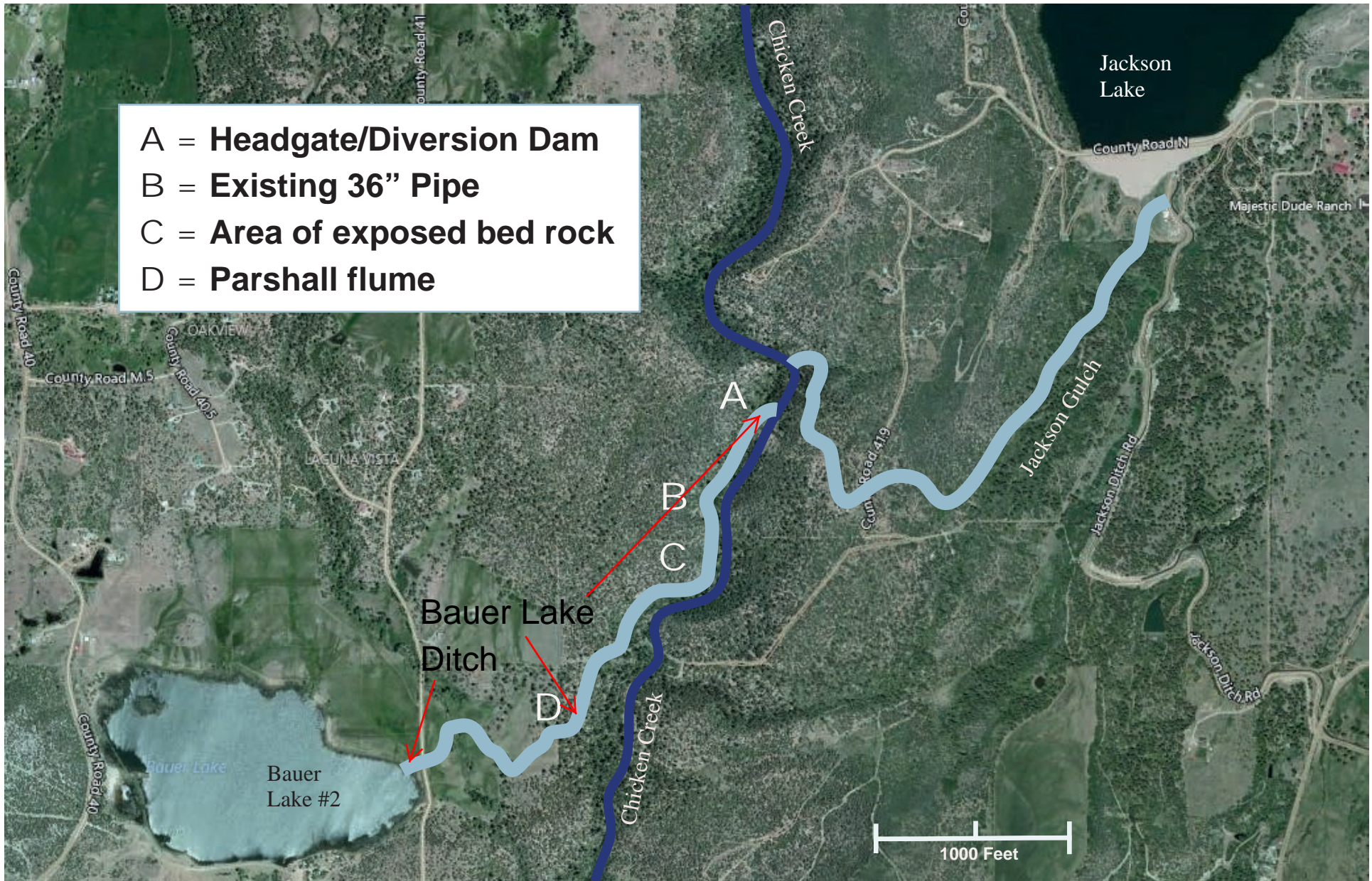
REPORTING AND FINAL DELIVERABLE

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the statement of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

Jackson Lake - Bauer Lake #2 Ditch Upgrade

4/3/16



Jackson Lake - Mancos Overview



Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
July 20-21, 2016
Agenda Item 16(g)

Applicant & Fiscal Agent: Animas Consolidated Ditch Company
Water Activity Name: Culvert Replacement Project
Water Activity Purpose: Agricultural
County: La Plata
Drainage Basin: Southwest
Water Source: Animas River & Hermosa Creek
Amount Requested/Source of Funds: \$34,354 Southwest Basin Account
\$34,354 Total Grant Request

Matching Funds: Applicant & 3rd Party Match (\$34,353: cash) = 50% of total project costs (\$68,707)
(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:

Staff recommends approval of up to \$34,354 from the Southwest Basin Account to help fund the project titled: Culvert Replacement Project.
--

Water Activity Summary: WSRA funds, if approved, will be expended to fund the replacement of approximately 84 linear feet of 48” elliptical pipe which is failing under current conditions. This effort consists of three components: surveying, engineering and construction (removal and replacement of existing corrugated metal pipe with a similarly sized concrete elliptical pipe). The existing pipe delivers approximately 30 cfs to approximately 1,000 acres of irrigated agriculture and other water users.

Discussion: This project meets the goals and objectives identified in the Southwest Basin Implementation Plan. This project is an extension of IPP 21A and is consistent with the Multi-Basin IPP addressing “Ditch Company Improvements and Efficiency Project”.

Issues/Additional Needs: No issues or additional needs have been identified.

Threshold and Evaluation Criteria:

The application meets all four Threshold Criteria.

Tier 1-3 Evaluation Criteria: n/a

Funding Summary/Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
Animas Consolidated Ditch Company	\$24,047	\$0	\$24,047
Adjacent Landowners	\$10,306	\$0	\$10,306
Subtotal Matching Funds	\$34,353	\$0	\$34,353
WSRA Southwest Basin Account	\$34,354	n/a	\$34,354
Total Project Costs	\$68,707	\$0	\$68,707

CWCB Project Manager: Craig Godbout

All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and will help promote the development of a common technical platform. In accordance with the revised WSRA Criteria and Guidelines, staff would like to highlight additional reporting and final deliverable requirements. The specific requirements are provided below.

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the scope of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

Engineering: All engineering work (as defined in the Engineers Practice Act (§12-25-102(10) C.R.S.)) performed under this grant shall be performed by or under the responsible charge of professional engineer licensed by the State of Colorado to practice Engineering.

SOUTHWEST BASINS ROUNDTABLE

Michael Preston, Chair

c/o Dolores Water Conservancy District

P.O. Box 1150

Cortez, Colorado 81321

970-565-7562

April 22, 2016

Mr. Craig Godbout

Water Supply Management Section

Colorado Water Conservation Board

1580 Logan Street, Suite 600

Denver, Colorado 80203

SUBJECT: Animas Consolidated Ditch Company Culvert Replacement Project, \$34,354
from Southwest Basin Account

Dear Mr. Godbout:

The Southwest Basin Roundtable approved funding of \$34,354 from the Basin Account for the Animas Consolidated Ditch Company Culvert Replacement Project. The application was considered in detail and approved at the April 13, 2016 meeting of the Southwest Basin Roundtable. There was a quorum of Roundtable members present.

The proposed project is an extension of IPP 21A in the Southwest BIP and consistent with the Multi-Basin IPP addressing "Ditch Company Improvement and Efficiency Projects." The culvert is a feature on a 12 mile ditch irrigating 3,000 acres of Animas Valley land. Deliveries have been impacted by gravel mining going back to early 20th century, and changes associated with increasing residential development in what was historically an agricultural valley. The Basin Fund request is being matched dollar for dollar by the applicant.

The completed Grant Application will be forwarded directly to you by the applicant. Please contact the applicant directly or me at 970-565-7562, mpreston@frontier.net, if you have questions or wish to discuss this application in more detail.

Sincerely,



Michael Preston

Southwest Basin Roundtable Chair



COLORADO WATER CONSERVATION BOARD



WATER SUPPLY RESERVE ACCOUNT APPLICATION FORM

Today's Date: April 3, 2016

Animas Consolidated Ditch Company 48 inch Culvert Replacement Project

Name of Water Activity/Project

Animas Consolidated Ditch Company

Name of Applicant

Southwest Basin
Roundtable

Amount from Statewide Account:

\$0

Amount from Basin Account(s):

\$34,354.00

Total WSRA Funds Requested:

\$34,354.00

Approving Basin Roundtable(s)

(If multiple basins specify amounts in parentheses.)

FEIN:

Application Content

Application Instructions	page 2
Part I – Description of the Applicant	page 3
Part II – Description of the Water Activity	page 5
Part III – Threshold and Evaluation Criteria	page 7
Part IV – Required Supporting Material	
Water Rights, Availability, and Sustainability	page 10
Related Studies	page 10
Signature Page	page 12

Required Exhibits

- A. Statement of Work, Budget, and Schedule
- B. Project Map
- C. As Needed (i.e. letters of support, photos, maps, etc.)

Appendices – Reference Material

- 1. Program Information
- 2. Insurance Requirements
- 3. WSRA Standard Contract Information (Required for Projects Over \$100,000)
- 4. W-9 Form (Required for All Projects Prior to Contracting)

Water Supply Reserve Account – Application Form

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Instructions

To receive funding from the Water Supply Reserve Account (WSRA), a proposed water activity must be approved by the local Basin Roundtable **AND** the Colorado Water Conservation Board (CWCBC). The process for Basin Roundtable consideration and approval is outlined in materials in Appendix 1.

Once approved by the local Basin Roundtable, the applicant should submit this application **with a detailed statement of work including budget and schedule as Exhibit A** to CWCBC staff by the application deadline.

WSRA applications are due with the roundtable letter of support 60 calendar days prior to the bi-monthly Board meeting at which it will be considered. Board meetings are held in January, March, May, July, September, and November. Meeting details, including scheduled dates, agendas, etc. are posted on the CWCBC website at: <http://cwcb.state.co.us> Applications to the WSRA Basin Account are considered at every board meeting, while applications to the WSRA Statewide Account are only considered at the March and September board meetings.

When completing this application, the applicant should refer to the WSRA Criteria and Guidelines available at: <http://cwcb.state.co.us/LoansGrants/water-supply-reserve-account-grants/Documents/WSRACriteriaGuidelines.pdf>. In addition, the applicant should also refer to the [Supplemental Scoring Matrix](#) applied to Evaluation Criteria Tiers 1-3 for Statewide Account requests .

The application, statement of work, budget, and schedule **must be submitted in electronic format** (Microsoft Word or text-enabled PDF are preferred) and can be emailed or mailed on a disk to:

Craig Godbout - WSRA Application
Colorado Water Conservation Board
1313 Sherman St., Room 721
Denver, CO 80203
Craig.godbout@state.co.us

If you have questions or need additional assistance, please contact Craig Godbout at: 303-866-3441 x3210 or craig.godbout@state.co.us.

Water Supply Reserve Account – Application Form

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Part I. - Description of the Applicant (Project Sponsor or Owner);

1.	Applicant Name(s):	Animas Consolidation Ditch Company		
	Mailing address:	P.O. Box 3777 Durango, Colorado 81302		
	FEIN #:			
	Primary Contact:	Ed Zink	Position/Title:	Board Member
	Email:	edzink@waterfallranch.com		
	Phone Numbers:	Cell: 970-749-4621	Office:	970-247-8758
	Alternate Contact:	Carrie Lile	Position/Title:	Engr. Consultant
	Email:	carrie@durangowater.com		
	Phone Numbers:	Cell: 970-759-9842	Office:	970-259-5322

2. Eligible entities for WSRA funds include the following. What type of entity is the Applicant?

- ☐ Public (Government) – municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities and the local entity should be the grant recipient. Federal agencies are eligible, but only if they can make a compelling case for why a local partner cannot be the grant recipient.
- ☐ Public (Districts) – authorities, Title 32/special districts, (conservancy, conservation, and irrigation districts), and water activity enterprises.
- ☒ Private Incorporated – mutual ditch companies, homeowners associations, corporations.
- ☐ Private individuals, partnerships, and sole proprietors are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
- ☐ Non-governmental organizations – broadly defined as any organization that is not part of the government.

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3. Provide a brief description of your organization

The Animas Consolidated Ditch Company owns and operates the Animas Consolidated Ditch, which serves the west side of the Animas River Valley between Baker’s Bridge and Durango. The ditch company was formed about 1900, and consolidated several ditches in the area into one. The Animas Consolidated Ditch Company has rights to nearly 91 cfs which provides irrigation and other water uses on roughly 3000 acres. There are 300 members along the 12 mile ditch.

This project supports the Southwest Basin Roundtable’s Implementation Plan (BIP) “Goal B of Meeting Agricultural Needs”. The specific goal is to “implement efficiency measures to maximize beneficial use and production”. The project is to implement irrigation system improvements to improve water delivery and maximize beneficial uses. Along with being categorized as a goal of the BIP, this project meets goals within the Colorado Water Plan as well. According to Chapter 10’s Critical Agricultural Actions table, this project specifically meets item #3 to “Provide grants, loans, and technical support to update and improve Colorado’s aging agricultural infrastructure, especially where improvements provide multiple benefits”. This project is the replacement of a culvert with an estimated age of at least 75 years.

4. If the Contracting Entity is different then the Applicant (Project Sponsor or Owner) please describe the Contracting Entity here.

The Animas Consolidated Ditch Company will hire a surveyor to gather data and a water engineer to design the components to be replaced. Then there will be a contractor hired to replace the culvert and complete landscaping.

5. Successful applicants will have to execute a contract with the CWCB prior to beginning work on the portion of the project funded by the WSRA grant. In order to expedite the contracting process the CWCB has established a standard contract with provisions the applicant must adhere to. A link to this standard contract is included in Appendix 3. Please review this contract and check the appropriate box.

☒ The Applicant will be able to contract with the CWCB using the Standard Contract

☐ The Applicant has reviewed the standard contract and has some questions/issues/concerns. Please be aware that any deviation from the standard contract could result in a significant delay between grant approval and the funds being available.

6. The Tax Payer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect the applicant.

Not applicable

Water Supply Reserve Account – Application Form

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Part II. - Description of the Water Activity/Project

1. What is the primary purpose of this grant application? (Please check only one)

☐ Nonconsumptive (Environmental or Recreational)

☒ Agricultural

☐ Municipal/Industrial

☐ Needs Assessment

☐ Education

☐ Other

Explain:

2. If you feel this project addresses multiple purposes please explain.

Not applicable

3. Is this project primarily a study or implementation of a water activity/project? (Please check only one)

☐ Study

☒ Implementation

4. To catalog measurable results achieved with WSRA funds can you provide any of the following numbers?

New Storage Created (acre-feet)

New Annual Water Supplies Developed, Consumptive or Nonconsumptive (acre-feet)

Existing Storage Preserved or Enhanced (acre-feet)

Length of Stream Restored or Protected (linear feet)

Length of Pipe/Canal Built or Improved (linear feet)

Efficiency Savings (acre-feet/year OR dollars/year – **circle one**)

Area of Restored or Preserved Habitat (acres)

Other -- Explain:

Water Supply Reserve Account – Application Form

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-
4. To help us map WSRA projects please include a map (Exhibit B) and provide the general coordinates below:

Latitude:

Longitude:

5. Please provide an overview/summary of the proposed water activity (no more than one page). Include a description of the overall water activity and specifically what the WSRA funding will be used for. A full **Statement of Work** with a detailed budget and schedule is required as **Exhibit A** of this application.

An existing squash culvert, within the Animas Consolidated Ditch delivery system, is a corrugated metal pipe with a diameter of 4 feet. The squash culvert delivers 30 cubic feet per second of water to approximately 1,000 acres of irrigated land. This culvert is one of many within the delivery system. The 84 foot long squash culvert is failing; the bottom is being crushed upwards creating exposed, rough metal edges creating turbulent flow and trash traps. The project proposes replacing the existing culvert with a concrete culvert of similar diameter and length. The existing culvert is sandwiched between an old historic home and County Road 203. It is a difficult location and therefore requires significantly more resources for construction than a typical culvert replacement. Due to the close proximity of the road and public utilities within the road's right of way, pre-construction surveying and engineering design are necessary.

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Part III. – Threshold and Evaluation Criteria

1. Describe how the water activity meets these **Threshold Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines.)
 - a) The water activity is consistent with Section 37-75-102 Colorado Revised Statutes.¹

The project will provide Animas Consolidated Ditch Company with a replaced culvert allowing the water deliveries to continue as historically taken place. The Animas Consolidated Ditch Company will work with the affected landowners to negotiate the terms and payment(s) for the delivery system improvements. No water rights or property water rights will be jeopardized by the project.

- b) The water activity underwent an evaluation and approval process and was approved by the Basin Roundtable (BRT) and the application includes a description of the results of the BRT's evaluation and approval of the activity. At a minimum, the description must include the level of agreement reached by the roundtable, including any minority opinion(s) if there was not general agreement for the activity. The description must also include reasons why general agreement was not reached (if it was not), including who opposed the activity and why they opposed it. Note- If this information is included in the letter from the roundtable chair simply reference that letter.

The information requested is included in the letter from the Roundtable chair.

¹ 37-75-102. Water rights - protections. (1) It is the policy of the General Assembly that the current system of allocating water within Colorado shall not be superseded, abrogated, or otherwise impaired by this article. Nothing in this article shall be interpreted to repeal or in any manner amend the existing water rights adjudication system. The General Assembly affirms the state constitution's recognition of water rights as a private usufructuary property right, and this article is not intended to restrict the ability of the holder of a water right to use or to dispose of that water right in any manner permitted under Colorado law. (2) The General Assembly affirms the protections for contractual and property rights recognized by the contract and takings protections under the state constitution and related statutes. This article shall not be implemented in any way that would diminish, impair, or cause injury to any property or contractual right created by intergovernmental agreements, contracts, stipulations among parties to water cases, terms and conditions in water decrees, or any other similar document related to the allocation or use of water. This article shall not be construed to supersede, abrogate, or cause injury to vested water rights or decreed conditional water rights. The General Assembly affirms that this article does not impair, limit, or otherwise affect the rights of persons or entities to enter into agreements, contracts, or memoranda of understanding with other persons or entities relating to the appropriation, movement, or use of water under other provisions of law.

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- c) The water activity meets the provisions of Section 37-75-104(2), Colorado Revised Statutes.² The Basin Roundtable Chairs shall include in their approval letters for particular WSRA grant applications a description of how the water activity will assist in meeting the water supply needs identified in the basin roundtable's consumptive and/or non-consumptive needs assessments.

The information requested is included in the letter from the Roundtable chair.

- d) Matching Requirement: For requests from the Statewide Fund, the applicants will be required to demonstrate a **25 percent** (or greater) match of the total grant request from the other sources, including by not limited to Basin Funds. A minimum match of 5% of the total grant amount shall be from Basin funds. A minimum match of 5% of the total grant amount must come from the applicant or 3rd party sources. Sources of matching funds include but are not limited to Basin Funds, in-kind services, funding from other sources, and/or direct cash match. Past expenditures directly related to the project may be considered as matching funds if the expenditures occurred within 9 months of the date the contract or purchase order between the applicant and the State of Colorado is executed. Please describe the source(s) of matching funds. (NOTE: These matching funds should also be reflected in your Detailed Budget in **Exhibit A** of this application)

The Animas Consolidated Ditch Company will provide 35% and the adjacent landowners will provide 15% of the funding. The Animas Consolidated Ditch Company's match will be a cash match of \$24,047 while the landowners will provide a cash match of \$10,306.

² 37-75-104 (2)(c). Using data and information from the Statewide Water Supply Initiative and other appropriate sources and in cooperation with the on-going Statewide Water Supply Initiative, develop a basin-wide consumptive and nonconsumptive water supply needs assessment, conduct an analysis of available unappropriated waters within the basin, and propose projects or methods, both structural and nonstructural, for meeting those needs and utilizing those unappropriated waters where appropriate. Basin Roundtables shall actively seek the input and advice of affected local governments, water providers, and other interested stakeholders and persons in establishing its needs assessment, and shall propose projects or methods for meeting those needs. Recommendations from this assessment shall be forwarded to the Interbasin Compact Committee and other basin roundtables for analysis and consideration after the General Assembly has approved the Interbasin Compact Charter.

Water Supply Reserve Account – Application Form

Revised October 2013

2. For Applications that include a request for funds from the **Statewide Account**, describe how the water activity/project meets all applicable **Evaluation Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines and repeated below.) Projects will be assessed on how well they meet the Evaluation Criteria. **Please attach additional pages as necessary.**

Not applicable

Evaluation Criteria – the following criteria will be utilized to further evaluate the merits of the water activity proposed for funding from the Statewide Account. In evaluation of proposed water activities, preference will be given to projects that meet one or more criteria from each of the three “tiers” or categories. Each “tier” is grouped in level of importance. For instance, projects that meet Tier 1 criteria will outweigh projects that only meet Tier 3 criteria. The applicant should also refer to the Supplemental Scoring Matrix applied to Evaluation Criteria Tiers 1-3 for Statewide Account requests. WSRA grant requests for projects that may qualify for loans through the CWCB loan program will receive preference in the Statewide Evaluation Criteria if the grant request is part of a CWCB loan/WSRA grant package. For these CWCB loan/WSRA grant packages, the applicant must have a CWCB loan/WSRA grant ratio of 1:1 or higher. Preference will be given to those with a higher loan/grant ratio.

Tier 1: Promoting Collaboration/Cooperation and Meeting Water Management Goals and Identified Water Needs

- a. The water activity addresses multiple needs or issues, including consumptive and/or non-consumptive needs, or the needs and issues of multiple interests or multiple basins. This can be demonstrated by obtaining letters of support from other basin roundtables (in addition to an approval letter from the sponsoring basin).
- b. The number and types of entities represented in the application and the degree to which the activity will promote cooperation and collaboration among traditional consumptive water interests and/or non-consumptive interests, and if applicable, the degree to which the water activity is effective in addressing intrabasin or interbasin needs or issues.
- c. The water activity helps implement projects and processes identified as helping meet Colorado’s future water needs, and/or addresses the gap areas between available water supply and future need as identified in SWSI or a roundtable’s basin-wide water needs assessment.

Tier 2: Facilitating Water Activity Implementation

- d. Funding from this Account will reduce the uncertainty that the water activity will be implemented. For this criterion the applicant should discuss how receiving funding from the Account will make a significant difference in the implementation of the water activity (i.e., how will receiving funding enable the water activity to move forward or the inability obtaining funding elsewhere).
- e. The amount of matching funds provided by the applicant via direct contributions, demonstrable in-kind contributions, and/or other sources demonstrates a significant & appropriate commitment to the project.

Tier 3: The Water Activity Addresses Other Issues of Statewide Value and Maximizes Benefits

- f. The water activity helps sustain agriculture & open space, or meets environmental or recreational needs.
- g. The water activity assists in the administration of compact-entitled waters or addresses problems related to compact entitled waters and compact compliance and the degree to which the activity promotes maximum utilization of state waters.

Water Supply Reserve Account – Application Form

Revised October 2013

- h. The water activity assists in the recovery of threatened and endangered wildlife species or Colorado State species of concern.
- i. The water activity provides a high level of benefit to Colorado in relationship to the amount of funds requested.
- j. The water activity is complimentary to or assists in the implementation of other CWCB programs.

Continued: Explanation of how the water activity/project meets all applicable **Evaluation Criteria**. **Please attach additional pages as necessary.**

Part IV. – Required Supporting Material

1. **Water Rights, Availability, and Sustainability** – This information is needed to assess the viability of the water project or activity. Please provide a description of the water supply source to be utilized, or the water body to be affected by, the water activity. This should include a description of applicable water rights, and water rights issues, and the name/location of water bodies affected by the water activity.

The project will assist in maintaining existing senior irrigation water rights in the Animas River Valley and continue to provide safe delivery of the water supply. The Animas Consolidated Ditch diverts from the Animas River and Hermosa Creek and provides irrigation water to users with the Animas Valley. The project will be constructed in the off irrigation season to prevent affecting any user.

2. Please provide a brief narrative of any related studies or permitting issues.

No specific studies have been done relating to the culvert replacement. The Animas Consolidated Ditch Company invited 3 separate engineers, 4 construction companies and NRCS to assess the problem. No specific permitting issues exist. The contracts will work La Plata County to ensure all applicable requirements are met during construction.

3. Statement of Work, Detailed Budget, and Project Schedule

The statement of work will form the basis for the contract between the Applicant and the State of Colorado. In short, the Applicant is agreeing to undertake the work for the compensation outlined in the statement of work and budget, and in return, the State of Colorado is receiving the deliverables/products specified. **Please note that costs incurred prior to execution of a contract or purchase order are not subject to reimbursement.** All WSRA funds are disbursed on a reimbursement basis after review invoices and appropriate backup material.

Please provide a detailed statement of work using the template in Exhibit A. Additional sections or modifications may be included as necessary. Please define all acronyms and include page numbers.

REPORTING AND FINAL DELIVERABLE

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the statement of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

PAYMENT

Payment will be made based on actual expenditures and invoicing by the applicant. Invoices from any other entity (i.e. subcontractors) cannot be processed by the State. The request for payment must include a description of the work accomplished by major task, and estimate of the percent completion for individual tasks and the entire water activity in relation to the percentage of budget spent, identification of any major issues and proposed or implemented corrective actions. The last 10 percent of the entire water activity budget will be withheld until final project/water activity documentation is completed. All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and help promote the development of a common technical platform.

Water Supply Reserve Account – Application Form

Revised October 2013

The above statements are true to the best of my knowledge:

Signature of Applicant:

Edwin A Zink, Board Secretary

Print Applicant's Name:

EDWIN A ZINK

Project Title:

Animas Consolidated Ditch Company

Date:

48 inch culvert Replacement

6/8/2016

Return an electronic version (hardcopy may also be submitted) of this application to:

Craig Godbout – WSRA Application
Colorado Water Conservation Board
1313 Sherman St., Room 721
Denver, CO 80203
303-866-3441, ext. 3210 (office)
303-547-8061 (cell)
craig.godbout@state.co.us

Scope of Work

WATER ACTIVITY NAME – ACDC 48 inch Culvert Replacement Project

GRANT RECIPIENT – Animas Consolidated Ditch Company

FUNDING SOURCE – Basin Account Water Supply Reserve Account

INTRODUCTION AND BACKGROUND

The Animas Consolidated Ditch Company owns and operates the Animas Consolidated Ditch, which serves the west side of the Animas River Valley between Baker's Bride and Durango. The ditch company has been in operations for over 100 years and has a diversion water right of 91 cfs which provides irrigation and other water uses to roughly 3,000 acres.

An existing squash culvert, within the Animas Consolidated Ditch delivery system, is a corrugated metal pipe with a diameter of 4 feet. The squash culvert delivers 30 cubic feet per second of water to approximately 1,000 acres of irrigated land. This culvert is one of many within the delivery system. The 84 foot long squash culvert is failing; the bottom is being crushed upwards creating exposed, rough metal edges creating turbulent flow and trash traps. The project proposes replacing the existing culvert with a concrete culvert of similar diameter and length. The existing culvert is sandwiched between an old historic home and County Road 203. It is a difficult location and therefore requires significantly more resources for construction than a typical culvert replacement. Due to the close proximity of the home and road, pre-construction surveying and engineering design are necessary.

OBJECTIVES

The project objectives are to design, construct and replace the 84 foot long 48 inch squash culvert. The site will be surveyed and an engineered design will be produced. A construction company familiar with this type of installation work will be contracted. The construction will be overseen by the design engineer to ensure the project is completed as designed.

TASKS

Provide a detailed description of each task using the following format.

TASK 1 – Surveying and Site Assessment

Description of Task

A cursory survey was conducted to determine the gradient of the existing squash culvert. This survey provided adequate data to NRCS to determine the required diameter (4 feet) to deliver 30 cubic feet per second. Due to the location of the culvert, close proximity to a home and county road, cross sectional surveying of the project area is necessary. The design engineer will conduct a site assessment and work with the surveyor to determine the locations of the necessary cross sections to design a replacement culvert.

Method/Procedure

Common engineering and surveying principles and practices will be employed to determine the locations of the cross sections. All points will be established on the Colorado State Plane Grid system South Zone 503, NAD 1983, NAVD 1988.

Deliverable

The deliverable will be a site layout of cross section locations with latitude and longitude values for applicable points.

TASK 2 – Culvert Design

Description of Task

The second task will be for a professional engineer to design the replacement culvert. The design engineer will utilize the gradient survey data, cross section survey data, preliminary specifications generated by NRCS and any other applicable information.

Method/Procedure

The design engineer will employ common engineering principles and practices to design the new squash culvert. The design will be reviewed and approved by the Animas Consolidated Ditch Company representatives.

Deliverable

The major deliverable will be an engineered design to install a new squash culvert along with a construction packet to be used by the contractors.

TASK 3 – Construction

Description of Task

The third task will be for construction of the new culvert. This work will at a minimum including: excavation of the site, plugging of existing culvert, installation of the new culvert, repair of ditch before and after the culvert to create smooth transitions, and landscaping of the distributed area.

Method/Procedure

The contractors will employ all required measures of safety, applicable county codes, and all other requirements during their period of work. The work is scheduled to begin after the 2016 irrigation season.

Deliverable

The major deliverable will be the installation of a new squash culvert.

REPORTING AND FINAL DELIVERABLE

Reporting

The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the scope of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable

At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

Animas Consolidated Ditch Company
48 inch Culvert Replacement Project

Attachment to Scope of Work

Task	Description	Total Cost	WSRA Grant			Total WSRA Grant	Total Matching
			Technical	Construction	Other Direct Costs		
1	Surveying and Site Assessment	\$1,500	\$1,500	\$0	\$0	\$750	\$750
2	Engineered Design	\$4,980	\$4,980	\$0	\$0	\$2,490	\$2,490
3	Construction	\$62,227	\$12,445	\$49,782	\$5,000	\$31,114	\$31,114
	Subtotals	\$68,707	\$18,925	\$49,782	\$5,000	\$34,354	\$34,354
	Total						\$68,707

		Technical					
		Principal Engineer Services	Subtotal	Surveyor Professional Services	Subtotal	Construction Services	Subtotal
Labor Distribution		\$120	Subtotal	\$100	Subtotal	Subtotal	Subtotal
Task 1	Surveying and Site Assessment	5	\$600	15	\$1,500	\$0	\$2,100
Task 2	Engineered Design	27	\$3,240	0	\$0	\$0	\$3,240
Task 3	Construction	9.5	\$1,140	0	\$0	\$62,227	\$63,367
	Total		\$4,980	Total	\$1,500	Total	\$68,707

Total	\$68,707
--------------	-----------------

- * The allocation of costs between each component may change depending upon the actual effort for each component.
- * Billing rates will remain fixed or decreased.
- * Contractors bid as one job not by individual tasks.

TASK COMPLETION SCHEDULE

Tentative Task Completion Schedule	Start Date	Completion Date
Task 1 - Surveying and Site Assessment	P.O. Issued Date	Fall of 2016
Task 2 - Engineering Design	P.O. Issued Date	Fall of 2016
Task 3 - Construction	Fall of 2016	May-2017
Final Report		May-2017

48 inch Culvert Replacement Project

Task	Description	Total Cost	WSRA Grant			Total WSRA Grant	Total Matching
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Labor Distribution		\$120	Subtotal	\$100	Subtotal	Subtotal	Subtotal
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Total	\$68,707
--------------	-----------------

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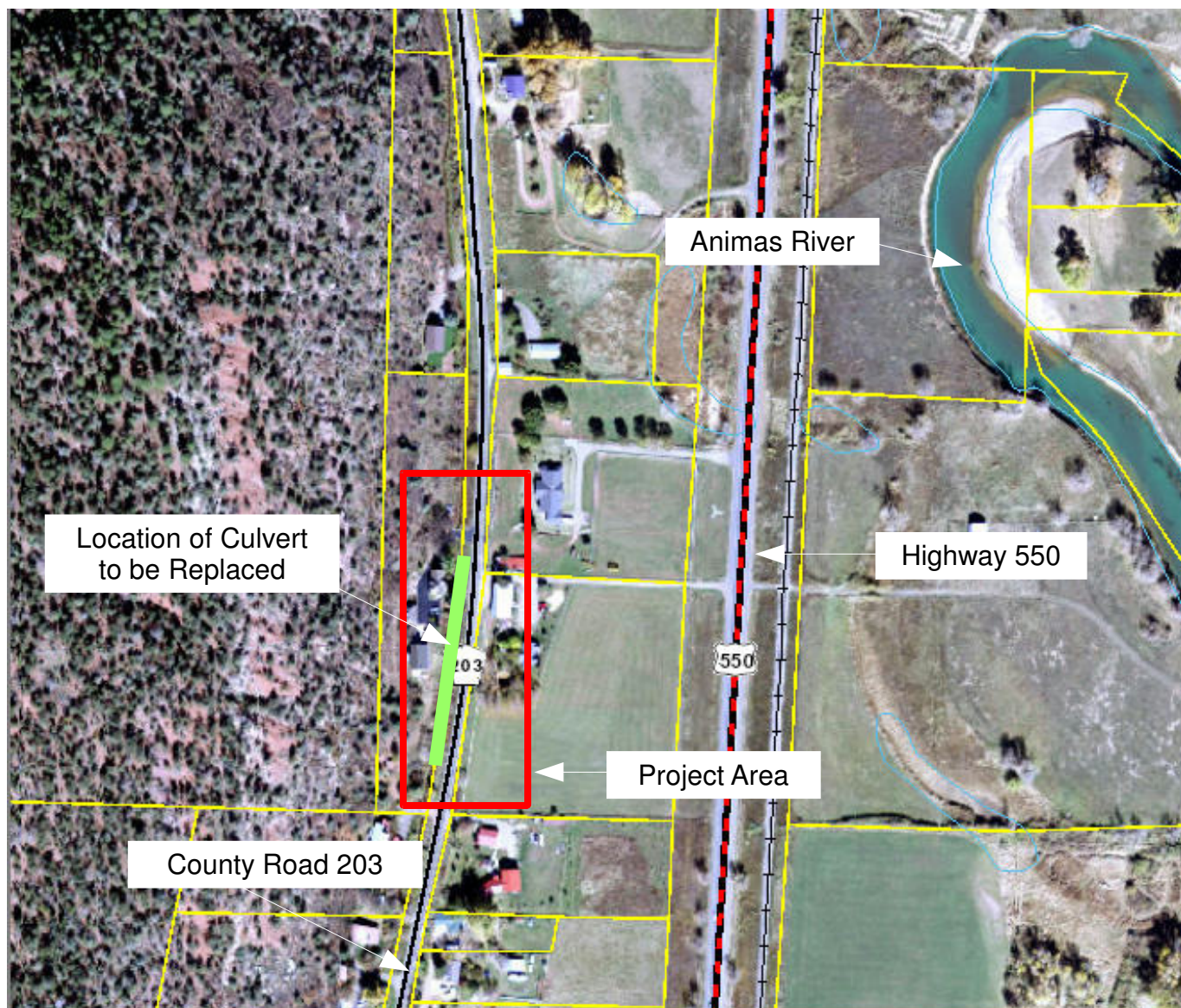
* Billing rates will remain fixed or decreased.

* Contractors bid as one job not by individual tasks.

TASK COMPLETION SCHEDULE

Tentative Task Completion Schedule	Start Date	Completion Date
Task 1 - Surveying and Site Assessment	P.O. Issued Date	Fall of 2016
Task 2 - Engineering Design	P.O. Issued Date	Fall of 2016
Task 3 - Construction	Fall of 2016	May-2017
Final Report		May-2017

Site Location Map



Harris Water Engineering, Inc.
954 E. 2nd. Ave., Ste. #202
Durango, CO 81301
(970)-259-5322

Animas Consolidated Ditch Company
48 inch Culvert Replacement Project

WRSA Grant Application

Animas Valley, CO
Courtesy La Plata County GIS
Not to Scale
Sec 21, T36N, R9E, NMPM

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
July 20-21, 2016
Agenda Item 16(h)

Applicant & Fiscal Agent: City of Steamboat Springs

Water Activity Name: Steamboat Springs Yampa River Management Plan

Water Activity Purpose: Nonconsumptive/Study

County: Routt

Drainage Basin: Yampa

Water Source: Yampa River

Amount Requested/Source of Funds: \$21,000 Yampa/White/Green Basin Account
\$21,000 Total Grant Request

Matching Funds: Applicant & 3rd Party Match (\$88,875: cash & in-kind) =
76% of total project costs (\$109,875)
(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:

Staff recommends approval of up to \$21,000 from the Yampa/White/Green Basin Account to help fund the project titled: Steamboat Springs Yampa River Management Plan.
--

Water Activity Summary: WSRA funds, if approved, will be expended to assist in funding a Stream Management Plan for the Yampa River through Steamboat Springs to include the reach from the Chuck Lewis State Wildlife Area to the Steamboat Springs Waste Water Treatment Plant. that engages its community and acts upon the guidance of the 2003 Yampa River Management Plan, the State of the Watershed Report, and the Yampa/White/Green's Basin Implementation Plan. By assessing water quality, aquatic life, and channel morphology, flow targets can be refined that are data-based and that fit within the context of water rights administration. As the Yampa/White/Green Basin Roundtable's Basin Implementation Plan (BIP) and Colorado's Water Plan point out, the link between water quality and water supply is in-severable. Employing flow management strategies to meet the non-consumptive needs, such as storage releases from Stagecoach Reservoir, helps to mitigate the potential environmental impacts to our river. But a long-term strategy for supplying non-consumptive needs of the Yampa River has yet to be secured. This effort addresses this need. WSRA Funds will be expended to complete Tasks 3, 4 and 7 as presented in the attached Statement of Work.

Discussion: This project meets many of the goals and objectives identified in the Yampa/White/Green Basin Implementation Plan (YWG BIP). This project has been identified in the YWG BIP as: IPP #10 – Yampa Preferred Target Flow Through Steamboat Springs, and; IPP #11—Recreational, habitat, & management strategy improvements (Yampa River through Steamboat.) Stream Management Plans have also been identified as a need and goal in Colorado's Water Plan.

Issues/Additional Needs: No issues or additional needs have been identified.

Threshold and Evaluation Criteria:

The application meets all four Threshold Criteria.

Tier 1-3 Evaluation Criteria: n/a**Funding Summary/Matching Funds:**

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
CWCB Watershed Restoration Grant	\$51,875	\$0	\$51,875
City of Steamboat Springs	\$15,000	\$12,000	\$27,000
Rout County	\$5,000	\$0	\$5,000
Yampa Valley Flyfishers – Trout Unlimited	\$5,000	\$0	\$5,000
Subtotal Matching Funds	\$76,875	\$12,000	\$88,875
WSRA Yampa/White/Green Basin Account	\$21,000	n/a	\$21,000
Total Project Costs	\$97,875	\$12,000	\$109,875

CWCB Project Manager: Chris Sturm

All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and will help promote the development of a common technical platform. In accordance with the revised WSRA Criteria and Guidelines, staff would like to highlight additional reporting and final deliverable requirements. The specific requirements are provided below.

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the scope of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

Engineering: All engineering work (as defined in the Engineers Practice Act (§12-25-102(10) C.R.S.)) performed under this grant shall be performed by or under the responsible charge of professional engineer licensed by the State of Colorado to practice Engineering.

Yampa White Green Basins Roundtable

June 3, 2016

Re: City of Steamboat Springs Yampa River Stream Management Plan

Mr. Godbout,

At the May 11th, 2016 meeting of the Yampa White Green Basin Roundtable, the membership voted unanimously to support the aforementioned project.

The City of Steamboat Springs proposes to develop a Stream Management Plan that supports a resilient and healthy river and appropriate river recreation along a highly used reach of the Yampa River from the Chuck Lewis State Wildlife Area to the Steamboat Springs Wastewater Treatment Plant. The Yampa River is the last remaining wild free flowing river in the Colorado River Basin and one of the last free flowing rivers in the Western United States. It is home to a variety of aquatic life including native and non-native fish and other organisms, as well as riparian vegetation. The river is also heavily used by recreationalists for activities including boating, tubing, swimming, and fishing and is used as a source of drinking water for the communities of the Yampa Valley.

The City prepared and adopted a Yampa River Management Plan in 2003, but significant accomplishments and policy changes in the past 13-years warrant an update to the plan. Warming temperatures have emerged as a water quality concern and this reach of the river was recently listed on the State's 303d Impaired Waterbody List. Temperature and the concern that nutrients, channel geometry, and over-use by recreation are putting our unique waterbody at risk are evidence that our community must develop a Stream Management Plan that advises how to prevent our river from crossing a threshold that cannot be reversed.

Acting upon the guidance of the 2003 Yampa River Management Plan, the State of the Watershed Report, and the Yampa/White/Green's Basin Implementation Plan, and by assessing water quality, aquatic life, and channel morphology, the project will refine flow targets that are data-based and that fit within the context water rights administration. The updated plan will concentrate on protecting the health and longevity of the Yampa River, while remaining an important recreation amenity for people.

Please do not hesitate to contact me with any questions.

Sincerely,

Jackie Brown

Jackie Brown, Vice- Chair
(970) 819-2484
jbrown@tristategt.org

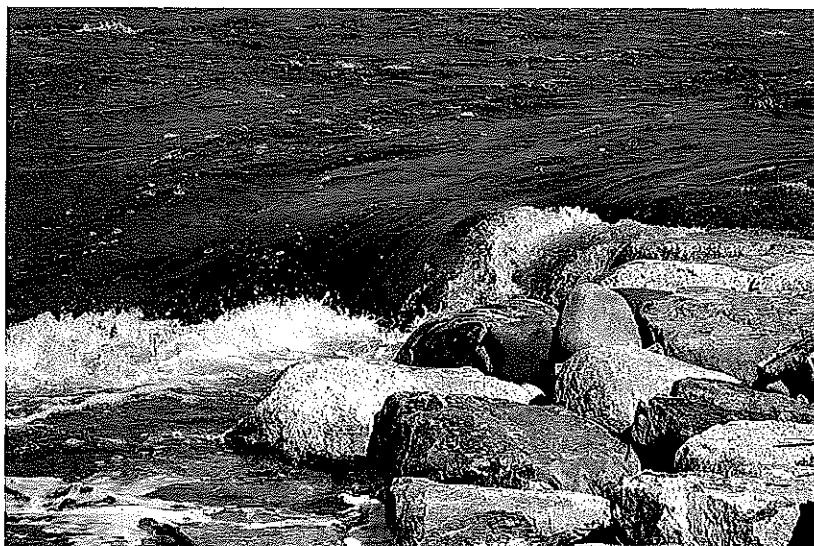


Hahns Peak Webcam



39°

Fair
Hi 59° Lo 29°



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The Routt County Board of Commissioners agreed April 19 to supply a \$5,000 matching grant toward a new Yampa River plan meant to make the river more drought resistant.

Commissioners are on board with matching grant for new Yampa River Study

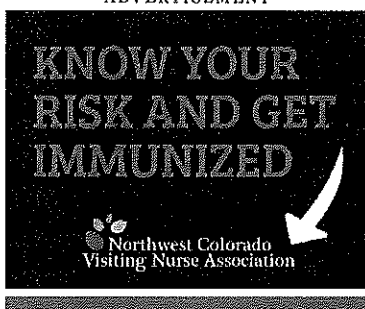
By Tom Ross

Updated April 20, 2016 at 2:25 p.m.

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Steamboat Springs — The last time the community funded a Yampa River management plan, in 2004, it was all about balancing the health of the town stretch of the Yampa with recreation. More than a decade later, plans are underway for a new river management plan, and this time there is more emphasis on protecting the health of the river to help ensure ample water for the community in times of drought.

“In part, this is an update of the 2004 plan. But it’s more of a streamflow management

plan where we’ll be looking for target flows that support aquatic life and water quality,” city of Steamboat Springs Water Resources Manager Kelly Heaney said Tuesday after meeting with Routt County officials. “It’s almost like a drought resiliency plan for the river.”

And the new study will take in a longer stretch of the river – from the Chuck Lewis State Wildlife Area downstream to the city’s wastewater treatment plant west of town.

The Routt County Board
of Commissioners (BOC)

agreed Tuesday to earmark \$5,000 in its 2017 budget for a contribution toward a 50 percent local match of a \$51,875 grant to fund the new management plan. The grant is part of \$1 million allocated to the Colorado Water Conservation Board in accordance with one of the measurable objectives in Colorado's landmark 2015 state water plan.

FROM OUR PARTNERS: COLORADO'S DELEGATES WERE DECIDED, 10 SECONDS AT A TIME

"I think it's probably a small price for Routt County to pay for something as important as guarding the health of the Yampa River," Commissioner Tim Corrigan said.

He was joined by commissioners Doug Monger and Cari Hermacinski in affirming the county's support for the \$5,000 share of the grant match.

The 2015 Water Plan set the goal of covering 80 percent of a list of locally prioritized rivers with new Stream Management Plans (SMP) by 2030.

Heaney told the BOC that with this grant, the Yampa will be among the first in the state to be the subject of such a study.

There is a plan underway on the Crystal River (upstream from Carbondale), Aspen and Pitkin County have begun work on a plan for the Roaring Fork, and plans are in the works for the Colorado river and the San Miguel on the western side of the San Juan Mountains, Heaney reported.

"We're kind of like pioneers along with them," she said.

Heaney said the Colorado Water Trust, which has in the past facilitated efforts to secure supplemental summer flows for the Yampa in drought years like 2002 and 2012, will participate in the study. 2002 and 2012 Colorado Parks and Wildlife put a voluntary ban on fishing in the town stretch of the Yampa in place because the shallow flows were too warm to hold desirable levels of dissolved oxygen for trout.

Water temperature and dissolved oxygen will be a part of the new new river study, which will include a streamflow management plan meant to manage for target flows that support both aquatic life and water quality, Heaney said.

"We're working with the Colorado Water Trust to get us to a place where we have a sustainable plan," Heaney said.

The Water Trust will undertake a legal analysis of the city's water rights and advise on different strategies to make the best use of them, she said. For example, strategies could include securing storage contracts, stream improvement projects and re-timing flows through wetlands.

To reach Tom Ross, call 970-871-4205, email tross@SteamboatToday.com or follow him on Twitter @ThomasSRoss1

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Water quality testing in Yampa River could lead to new classification and regulations
Water testing on Yampa River could lead to more regulations after reclassification
Yampa being considered for supplementary flows for third time in four years
State officials to assess Northwest Colorado drought conditions during Tuesday tour

Ginger Scott

From: Kelly Romero-Heaney
Sent: Friday, May 27, 2016 9:42 AM
To: Ginger Scott
Subject: FW: YVF--Yampa River Stream Management Plan

FYI

From: Bruce Carta [<mailto:logovudu@gmail.com>]
Sent: Monday, May 09, 2016 12:55 PM
To: Kelly Romero-Heaney
Subject: Re: YVF--Yampa River Stream Management Plan

We will be providing you with this; \$5,000 to match the WSRA Application

Bruce Carta

President
Yampa Valley Fly Fishers / Trout Unlimited
970-819-3633 Cell
logovudu@gmail.com
www.yvfftu.org

On Wed, Mar 30, 2016 at 12:42 PM, Kelly Romero-Heaney <kromeroheaney@steamboatsprings.net> wrote:

Hi Bruce,

I thought I'd check back in with you and the Flyfishers to see if you've had any additional discussions about YVF's level of involvement with the proposed Stream Management Plan. I am really hoping that the Flyfishers will want to play a key role in improving the resiliency of the Yampa River to withstand drought.

Let me know if you need anything else from me.

Thanks,

K



October 14, 2015

1420 Ogden Street, Suite A2
Denver, Colorado 80218

TEL: 720.570.2897

FAX: 720.907.0377

WEB: www.coloradowatertrust.org

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David L. Harrison, Emeritus

Peter Nichols, Emeritus

David Robbins, Emeritus

Chris Sturm
Colorado Water Conservation Board
1313 Sherman Street, Room 721
Denver, CO 80203

Dear Mr. Sturm,

Please receive this letter of support for the City of Steamboat Springs' Yampa River Management Plan update grant application.

The Colorado Water Trust is a private, non-profit organization that engages in and supports voluntary efforts to restore and protect streamflows in Colorado to sustain healthy aquatic ecosystems. These efforts include water acquisitions, other creative transfers of water, on-the-ground physical solutions, and providing technical assistance to land trusts.

Since 2012, we have worked closely with water users, including the City of Steamboat Springs, on restoring flows to the Yampa River downstream of Stagecoach Reservoir. An important part of that work is to define the preferred flow through the City – particularly in times of drought – that will best support the Yampa River as a healthy place for fish to live and people to recreate. With that goal established, the Water Trust can better utilize its tools to support the City and the river.

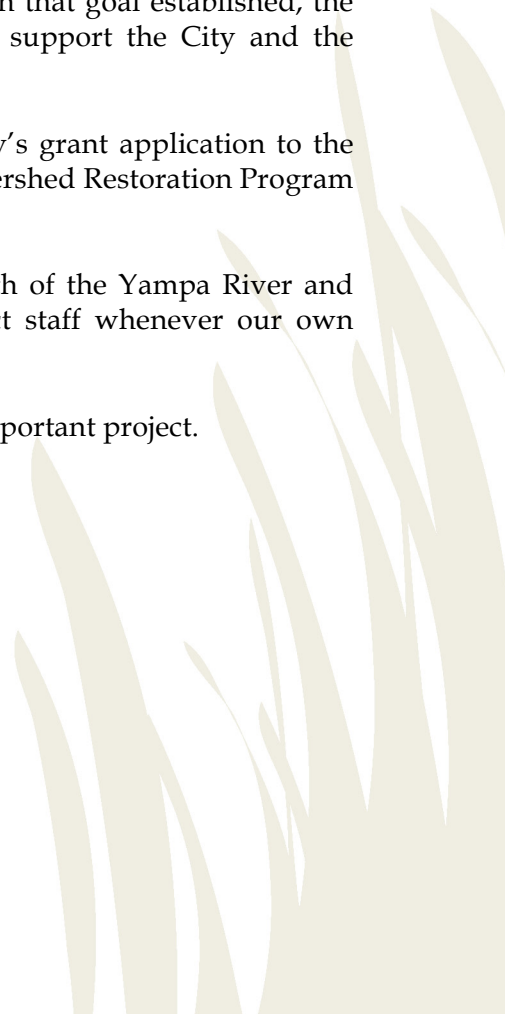
As such, we are in full support of the City's grant application to the Colorado Water Conservation Board's Watershed Restoration Program to create a Yampa River Management Plan.

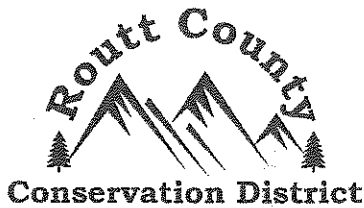
The Water Trust is committed to the health of the Yampa River and will be available to City and other project staff whenever our own expertise is needed.

Thank you for your consideration of this important project.

Sincerely,

Zach Smith, Staff Attorney
Colorado Water Trust





UPPER YAMPA RIVER WATERSHED GROUP

October 14, 2015

Colorado Water Conservation Board
1313 Sherman Street, Rm 721
Denver, CO 80203

Attn: Chris Sturm

Dear Mr. Sturm,

Please accept this letter from the Upper Yampa River Watershed Group (UYRWG) in support of the City of Steamboat Springs' grant request to fund an update of the 2003 Yampa River Management Plan for the reach between the Chuck Lewis State Wildlife Area and the Steamboat Springs Wastewater Treatment Plant. A stream management plan that focuses on maintaining a healthy watershed is a priority for our group. The UYRWG is committed to being a resource through this process by providing scientific information on water quality and quantity; providing guidance for the management of human development and the environment; restoring and maintaining habitat and riparian health; addressing water storage; and managing non-consumptive uses.

The UYRWG is an organization comprised of representatives from local government, water suppliers, environmental organizations, the US Forest Service, Colorado Parks & Wildlife, industry, and other stakeholders in the Upper Yampa Basin. The UYRWG recently published the 2014 State of the Watershed Report (SOTWR) and is currently drafting a Watershed Implementation Plan that identifies and prioritizes projects and strategies that will help support the health of the watershed.

While the recent SOTWR indicates that water quality of the Upper Yampa River Basin is generally good, potential concerns have been identified including within the sub-basin where the proposed project is located (see SOTWR at <http://routtcountycd.com/>). Accordingly, the UYRWG strongly supports the City's request for funding to create an updated Yampa River Management Plan as defined above to evaluate and address these concerns further.

Thank you for your serious consideration of this important project. I can be reached at 970.879.6323 should you have questions or additional needs.

Sincerely,

Lyn Halliday

Lyn Halliday, Member, Interim Coordinator
Upper Yampa River Watershed Group



COLORADO

Parks and Wildlife

Department of Natural Resources

Colorado Parks and Wildlife- Steamboat
925 Weiss Drive
Steamboat Springs, CO 80487
P 970.871.2855

February 8, 2016

Re: Steamboat Springs Yampa River Management Plan

Yampa/White/Green Basin Roundtable
Chairwoman Mary Brown
PO Box 772975
Steamboat Springs, CO 80487

Dear Ms. Brown:

On February 4, 2016, Colorado Parks and Wildlife (CPW) staff and City of Steamboat Springs staff met to discuss the direction of the proposed Yampa River Management Plan. CPW staff would like to express interest in the future of the Yampa River Management Plan.

It is our understanding that the plan addresses water quality conditions of the Yampa River within the reach from the Chuck Lewis State Wildlife Area to the Steamboat Springs Waste Water Treatment Plant.

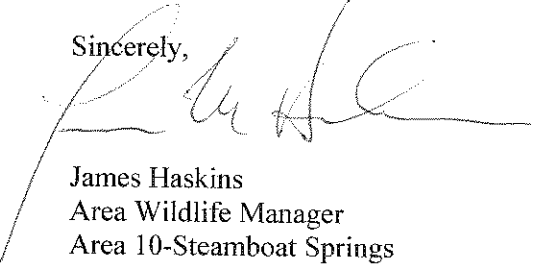
CPW staff is in support of the current scope of plans, as delineated by city staff, to assess water quality, aquatic life, and channel morphology on this reach of the Yampa River.

Varieties of efforts have been and continue to be made to monitor and improve this section of the Yampa River by CPW staff. Such efforts include river and riparian restoration activities, temperature monitoring and fish population monitoring in response to restoration activities, environmental influences and management actions.

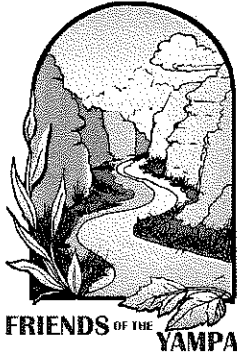
In concert with the proposed Water Quality Management Plan CPW staff will continue to monitor water temperature through this corridor, as well as fish population dynamics on an annual or bi-annual basis, or as deemed necessary by CPW staff.

CPW staff is happy to discuss the direction of this project in the future. For any further questions regarding this matter, please contact District Wildlife Manager, Andrea Sponseller at 970-875-4303 and Bill Atkinson at 970-871-2868.

Sincerely,


James Haskins
Area Wildlife Manager
Area 10-Steamboat Springs
CC: Velarde, Haskins, Sponseller, Area file





Friends of the Yampa

PO Box 774703,
Steamboat Springs, CO 80477

May 4, 2016

Yampa/White/Green Roundtable
c/o Colorado Water Conservation Board
1313 Sherman Street, Room 718
Denver, CO 80203

Attn: Mary Brown, Chairperson

Dear Ms. Brown,

Please accept this letter from the Friends of the Yampa in support of the City of Steamboat Springs' effort to update the 2003 Yampa River Management Plan for the reach between the Chuck Lewis State Wildlife Area and the Steamboat Springs Wastewater Treatment Plant. A stream management plan that focuses on maintaining a healthy river flow is a priority for our organization. We are committed to providing input throughout the plan update process.

The Friends of the Yampa is a river advocacy group and movement based on one common passion, a shared love for the Yampa River. We are a 501(c)3 organization and have deep roots in the regional community. Established in 1981, we have a long standing history of working for the river by organizing clean ups, holding discussions about the Yampa's important and rare attributes, funding and helping build river features/habitats as well as participating in a variety of local, regional and national policy efforts and campaigns.

Friends of the Yampa strongly supports the City's request for funding to create an updated Yampa River Management Plan as defined above to evaluate and address these concerns further.

Thank you for your consideration of this important project. I can be reached at charliept@gmail.com.

Sincerely,

Charlie Preston-Townsend
President, Friends of the Yampa Board of Directors

The Friends of the Yampa's mission is to protect and enhance the Yampa River's environmental and recreational integrity through stewardship, advocacy, education and partnerships.



COLORADO WATER CONSERVATION BOARD



WATER SUPPLY RESERVE ACCOUNT APPLICATION FORM

Today's Date: May 31st, 2016

Steamboat Springs Yampa River Management Plan

Name of Water Activity/Project

City of Steamboat Springs

Name of Applicant

Yampa/White/Green Basin
Roundtable

Amount from Statewide Account:

Amount from Basin Account(s):

Total WSRA Funds Requested:

21,000

21,000

Approving Basin Roundtable(s)

(If multiple basins specify amounts in parentheses.)

FEIN: 84-6000721

Application Content

Application Instructions	page 2
Part I – Description of the Applicant	page 3
Part II – Description of the Water Activity	page 5
Part III – Threshold and Evaluation Criteria	page 7
Part IV – Required Supporting Material	
Water Rights, Availability, and Sustainability	page 10
Related Studies	page 10
Signature Page	page 12

Required Exhibits

- A. Statement of Work, Budget, and Schedule
- B. Project Map
- C. As Needed (i.e. letters of support, photos, maps, etc.)

Appendices – Reference Material

- 1. Program Information
- 2. Insurance Requirements
- 3. WSRA Standard Contract Information (Required for Projects Over \$100,000)
- 4. W-9 Form (Required for All Projects Prior to Contracting)

Water Supply Reserve Account – Application Form

Revised October 2013

Instructions

To receive funding from the Water Supply Reserve Account (WSRA), a proposed water activity must be approved by the local Basin Roundtable **AND** the Colorado Water Conservation Board (CWCBC). The process for Basin Roundtable consideration and approval is outlined in materials in Appendix 1.

Once approved by the local Basin Roundtable, the applicant should submit this application **with a detailed statement of work including budget and schedule as Exhibit A** to CWCBC staff by the application deadline.

WSRA applications are due with the roundtable letter of support 60 calendar days prior to the bi-monthly Board meeting at which it will be considered. Board meetings are held in January, March, May, July, September, and November. Meeting details, including scheduled dates, agendas, etc. are posted on the CWCBC website at: <http://cwcb.state.co.us> Applications to the WSRA Basin Account are considered at every board meeting, while applications to the WSRA Statewide Account are only considered at the March and September board meetings.

When completing this application, the applicant should refer to the WSRA Criteria and Guidelines available at: <http://cwcb.state.co.us/LoansGrants/water-supply-reserve-account-grants/Documents/WSRACriteriaGuidelines.pdf>. In addition, the applicant should also refer to the [Supplemental Scoring Matrix](#) applied to Evaluation Criteria Tiers 1-3 for Statewide Account requests .

The application, statement of work, budget, and schedule **must be submitted in electronic format** (Microsoft Word or text-enabled PDF are preferred) and can be emailed or mailed on a disk to:

Craig Godbout - WSRA Application
Colorado Water Conservation Board
1313 Sherman St., Room 721
Denver, CO 80203
Craig.godbout@state.co.us

If you have questions or need additional assistance, please contact Craig Godbout at: 303-866-3441 x3210 or craig.godbout@state.co.us.

Water Supply Reserve Account – Application Form

Revised October 2013

Part I. - Description of the Applicant (Project Sponsor or Owner);

1.	Applicant Name(s):	City of Steamboat Springs		
	Mailing address:	P.O. Box 775088 Steamboat Springs, CO 80477		
	FEIN #:	84-6000721		
	Primary Contact:	Kelly Romero-Heaney	Position/Title:	Water Resources Mgr
	Email:	kheaney@steamboatsprings.net		
	Phone Numbers:	Cell: 970-846-5750	Office:	970-871-8205
	Alternate Contact:	Craig Robinson	Position/Title:	Parks, Open Space & Trails
	Email:	crobinson@steamboatsprings.net		
	Phone Numbers:	Cell: 970-819-2867	Office:	970-871-7034

2. Eligible entities for WSRA funds include the following. What type of entity is the Applicant?

- ☒ Public (Government) – municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities and the local entity should be the grant recipient. Federal agencies are eligible, but only if they can make a compelling case for why a local partner cannot be the grant recipient.
- ☐ Public (Districts) – authorities, Title 32/special districts, (conservancy, conservation, and irrigation districts), and water activity enterprises.
- ☐ Private Incorporated – mutual ditch companies, homeowners associations, corporations.
- ☐ Private individuals, partnerships, and sole proprietors are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
- ☐ Non-governmental organizations – broadly defined as any organization that is not part of the government.

Water Supply Reserve Account – Application Form

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3. Provide a brief description of your organization

The City of Steamboat Springs is a municipality in Northwest Colorado and the county seat of Routt County. Steamboat Springs is a small rural resort community in Northwest Colorado. Our 2010 census population is 12,088 and the population of Routt County is 23,509. Within the City of Steamboat Springs organization, the Public Works Department has a Utilities Division that works with water rights, water distribution, sewer collection, and stormwater quality management. The City established a Stormwater Task Force to assess the effectiveness of the stormwater system and make recommendations on future management practices. The City implemented the recommendations from the task force by hiring a Water Resources Manager who implements the Municipal Separate Storm Sewer (MS4) Program to comply with the Clean Water Act, oversees drainage improvements, and manages the city's water portfolio to meet both the consumptive and non-consumptive needs of its community. The City has representation on the Yampa/White Basin Roundtable, the Yampa River Legacy Project, and the Upper Yampa Watershed Group and has successfully completed many grant funded restoration projects along the Yampa River including improvements at the Chuck Lewis State Wildlife Area south of Steamboat Springs, Rich Weiss Park (Town Run) in downtown, Bear River Park, and Fournier Open Space property. Projects at these sites have involved bank and channel stabilization, riparian rehabilitation, river channel grading and shaping, and improved public access points. In addition the City was closely involved in the formation of the original Yampa River Management Plan (2003), the Yampa River Structural Master Plan (2008), the State of the Watershed Report (2014), and the Yampa/White/Green Basin Implementation Plan (2015), and has systematically acquired open space parcels along the Yampa River, instituted conservation easements in riparian areas, and provided river access where appropriate.

The lead contact on this project will be Kelly Heaney, Water Resources Manager for the City of Steamboat Springs. She will be assisted by Craig Robinson, Parks, Open Space & Trails Manager for expertise on recreational aspects of the river. Kelly has worked for over 15 years in watershed management, environmental compliance, and water supply planning. Craig has over 15 years of experience with the City working on Yampa River, open space, parks and trail projects. Kelly and Craig will be supported in this project by Shelly St. Pierre, the City's Purchasing and Contracts Division, on the procurement of goods, services, and construction in compliance with federal, state, and local law, and with the City's two attorneys who are available to review and endorse contracts on a daily basis. The City also has a grant accountant to ensure all required reporting is done and grant files are maintained.

4. If the Contracting Entity is different then the Applicant (Project Sponsor or Owner) please describe the Contracting Entity here.

N/A

5. Successful applicants will have to execute a contract with the CWCB prior to beginning work on the portion of the project funded by the WSRA grant. In order to expedite the contracting process the CWCB has established a standard contract with provisions the applicant must adhere to. A link to this standard contract

Water Supply Reserve Account – Application Form

Revised October 2013

is included in Appendix 3. Please review this contract and check the appropriate box.

☒ The Applicant will be able to contract with the CWCB using the Standard Contract

☐ The Applicant has reviewed the standard contract and has some questions/issues/concerns. Please be aware that any deviation from the standard contract could result in a significant delay between grant approval and the funds being available.

6. The Tax Payer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect the applicant.

The City of Steamboat Springs “de-bruced” in 1997 and would not be affected by TABOR.

Water Supply Reserve Account – Application Form

Revised October 2013

Part II. - Description of the Water Activity/Project

1. What is the primary purpose of this grant application? (Please check only one)

☒ Nonconsumptive (Environmental or Recreational)

☐ Agricultural

☐ Municipal/Industrial

☐ Needs Assessment

☐ Education

☐ Other Explain:

2. If you feel this project addresses multiple purposes please explain.

While the primary purpose of this project is to meet non-consumptive environmental and recreational needs on the Yampa River through Steamboat Springs, an indirect municipal benefit will result. The Water Quality Control Commission recently added this segment of the Yampa River to the 303d List of Impaired Waterbodies for temperature which will greatly impact the ability for municipalities to discharge their community's wastewater. By improving stream flow for aquatic life and, consequently, reducing stream temperatures to support cold water species, this segment could be de-listed. This would allow municipalities within this segment to avoid multi-million dollar capital improvements at wastewater facilities (such as cooling tower construction) that would likely provide only a limited benefit to the river as opposed to investing funds in projects that improve watershed health.

3. Is this project primarily a study or implementation of a water activity/project? (Please check only one)

☒ Study

☐ Implementation

4. To catalog measurable results achieved with WSRA funds can you provide any of the following numbers?

New Storage Created (acre-feet)

New Annual Water Supplies Developed, Consumptive or Nonconsumptive (acre-feet)

Existing Storage Preserved or Enhanced (acre-feet)

☒ Length of Stream Restored or Protected (linear feet)

Length of Pipe/Canal Built or Improved (linear feet)

Efficiency Savings (acre-feet/year OR dollars/year – **circle one**)

Area of Restored or Preserved Habitat (acres)

Other -- Explain:

Water Supply Reserve Account – Application Form

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4. To help us map WSRA projects please include a map (Exhibit B) and provide the general coordinates below:

Latitude:

Longitude:

5. Please provide an overview/summary of the proposed water activity (no more than one page). Include a description of the overall water activity and specifically what the WSRA funding will be used for. A full **Statement of Work** with a detailed budget and schedule is required as **Exhibit A** of this application.

The City of Steamboat Springs proposes to develop a Stream Management Plan that supports a resilient and healthy river and appropriate river recreation along a highly used reach of the Yampa River from the Chuck Lewis State Wildlife Area to the Steamboat Springs Wastewater Treatment Plant. The Yampa River is the last remaining wild free flowing river in the Colorado River Basin and one of the last free flowing rivers in the Western United States. It is home to a variety of aquatic life including native and non-native fish and other organisms, as well as riparian vegetation. The river is also heavily used by recreationalists for activities including boating, tubing, swimming, and fishing and is used as a source of drinking water for the communities of the Yampa Valley.

The City prepared and adopted a Yampa River Management Plan in 2003, but significant accomplishments and policy changes in the past 13-years warrant an update to the plan. Warming temperatures have emerged as a water quality concern and this reach of the river was recently listed on the State's 303d Impaired Waterbody List. Temperature and the concern that nutrients, channel geometry, and over-use by recreation are putting our unique waterbody at risk are evidence that our community must develop a Stream Management Plan that advises how to prevent our river from crossing a threshold that cannot be reversed.

Acting upon the guidance of the 2003 Yampa River Management Plan, the State of the Watershed Report, and the Yampa/White/Green's Basin Implementation Plan, and by assessing water quality, aquatic life, and channel morphology, we can refine flow targets that are data-based and that fit within the context water rights administration. The updated plan will concentrate on protecting the health and longevity of the Yampa River, while remaining an important recreation amenity for people.

Although the full Statement of Work in Exhibit A outlines all of the objectives, tasks, and associated budget, the following is a summary of how the WSRA Basin Account funds will be applied:

Task 3 – Evaluate Existing Reports & Water Quality/Habitat Data; Identify Data Gaps **WSRA Funds = \$6,000**

Numerous studies, such as the 2003 Yampa River Management Plan, have been conducted on this reach of the Yampa River. The Project Team will review existing reports to determine which information is useful, capable of providing solid baseline information on water temperature and aquatic life, and to assure the SMP is working in conjunction with other previous plans. Using review of USGS station data, CDSN, Yampa River Monitoring Data 2004/2005 and other information sources, the team will determine a baseline for measuring future success in meeting stream health and water

Water Supply Reserve Account – Application Form

Revised October 2013

quality targets. Information will also be used to identify data and expertise gaps and to determine where additional monitoring should occur.

Task 4—Identification of Water Quality Targets and a *Preferred Target Flow*

WSRA Funds = \$5,000

The Project Team will identify Water Quality Targets and a *Preferred Target Flows* that support stream health parameters, such as temperature and aquatic life. Data analysis will inform the development of a discharge vs. temperature curve. It is anticipated that R2CROSS or some other method to identify aquatic life flow needs will be performed to refine the *Preferred Target Flow*.

Tasks 7 – Final Report

WSRA Funds = \$10,000

The Project Manager will compile Technical Summaries and stakeholder input to generate a Final Report with targets and implementation scenarios. The Project Team and other interested stakeholders will review draft versions of the report. The Final Report will be presented at a public stakeholder meeting.

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Part III. – Threshold and Evaluation Criteria

1. Describe how the water activity meets these **Threshold Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines.)

- a) The water activity is consistent with Section 37-75-102 Colorado Revised Statutes.¹

The proposed Stream Management Plan will not interfere with Colorado Water Law. The primary outcome of the proposal will be to identify a voluntary *preferred target flow* and opportunities to meet that flow for this reach of the Yampa River. A *preferred target flow* does not constitute a water right and will not affect the allocation of water in the State of Colorado.

- b) The water activity underwent an evaluation and approval process and was approved by the Basin Roundtable (BRT) and the application includes a description of the results of the BRT's evaluation and approval of the activity. At a minimum, the description must include the level of agreement reached by the roundtable, including any minority opinion(s) if there was not general agreement for the activity. The description must also include reasons why general agreement was not reached (if it was not), including who opposed the activity and why they opposed it. Note- If this information is included in the letter from the roundtable chair simply reference that letter.

See Basin Chair approval letter.

- c) The water activity meets the provisions of Section 37-75-104(2), Colorado Revised Statutes.² The Basin

¹ 37-75-102. Water rights - protections. (1) It is the policy of the General Assembly that the current system of allocating water within Colorado shall not be superseded, abrogated, or otherwise impaired by this article. Nothing in this article shall be interpreted to repeal or in any manner amend the existing water rights adjudication system. The General Assembly affirms the state constitution's recognition of water rights as a private usufructuary property right, and this article is not intended to restrict the ability of the holder of a water right to use or to dispose of that water right in any manner permitted under Colorado law. (2) The General Assembly affirms the protections for contractual and property rights recognized by the contract and takings protections under the state constitution and related statutes. This article shall not be implemented in any way that would diminish, impair, or cause injury to any property or contractual right created by intergovernmental agreements, contracts, stipulations among parties to water cases, terms and conditions in water decrees, or any other similar document related to the allocation or use of water. This article shall not be construed to supersede, abrogate, or cause injury to vested water rights or decreed conditional water rights. The General Assembly affirms that this article does not impair, limit, or otherwise affect the rights of persons or entities to enter into agreements, contracts, or memoranda of understanding with other persons or entities relating to the appropriation, movement, or use of water under other provisions of law.

² 37-75-104 (2)(c). Using data and information from the Statewide Water Supply Initiative and other appropriate sources and in cooperation with the on-going Statewide Water Supply Initiative, develop a basin-wide consumptive and nonconsumptive water supply needs assessment, conduct an analysis of available unappropriated waters within the basin, and propose projects or methods, both structural and nonstructural, for meeting those needs and utilizing those unappropriated waters where appropriate. Basin Roundtables shall actively seek the input and advice of affected local governments, water providers, and other interested stakeholders and persons in establishing its needs assessment, and shall propose projects or methods for meeting those needs. Recommendations from this assessment shall be forwarded to the Interbasin Compact Committee and other basin roundtables for analysis and consideration after the General Assembly has approved the Interbasin Compact Charter.

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Roundtable Chairs shall include in their approval letters for particular WSRA grant applications a description of how the water activity will assist in meeting the water supply needs identified in the basin roundtable's consumptive and/or non-consumptive needs assessments.

See Basin Chair approval letter.

The proposed Stream Management Plan helps to further the following YWG Basin Roundtable Goals:

- **Identify and address municipal and industrial water shortages.**
 - A shortage of water quality that meets Water Quality Control Division (WQCD) stream standards can become a municipal water shortage when wastewater discharge is limited by the ability for a waterbody to receive the discharge.
- **Quantify and protect environmental and recreational water uses at locations identified in the non-consumptive needs study of the YWG BRT.**
 - The non-consumptive needs study of the YWG BRT prioritized this reach for protection of its environmental and recreational water uses and future dry scenarios indicate that aquatic life are at high risk. Therefore, the SMP will quantify the flows needed to protect environmental uses by identifying a *Preferred Target Flow*.
- **Maintain and consider the existing natural range of water quality that is necessary for current and anticipated water uses.**
 - According to the Water Quality Control Divisions 303d List of Impaired Waterbodies, this segment of the Yampa River has already exceeded its natural range of water quality for temperature. High stream temperatures directly correlate to low-flow, drought conditions. The SMP will identify strategies to improve flow conditions and, consequently, water quality parameters, such as temperature.
- **Develop an integrated system of water use, storage, administration and delivery to reduce water shortages and meet environmental and recreational needs.**
 - Achieving a *Preferred Target Flow* will require an integrated strategy of storage releases, administration, delivery mechanisms, and stream and wetland restoration. Improving low flow conditions in drought years for non-consumptive uses bolsters stream flows to benefit multiple uses, including agricultural, municipal, and industrial uses. Although the project area ends at the Steamboat Springs Wastewater Treatment Facility, the benefits to the river and downstream users extend well beyond this lower terminus.

The YWG Roundtable identified the following Non-Consumptive IPP's that are components of the proposed SMP in its Basin Implementation Plan to help achieve the goals referenced above:

IPP #10—Yampa Preferred Target Flow Through Steamboat Springs

IPP #11—Recreational, habitat, & management strategy improvements (Yampa River through Steamboat.)

- d) Matching Requirement: For requests from the **Statewide Fund**, the applicants will be required to demonstrate a **25 percent** (or greater) match of the total grant request from the other sources, including by not limited to Basin Funds. A minimum match of 5% of the total grant amount shall be from Basin funds. A minimum match of 5% of the total grant amount must come from the applicant or 3rd party

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sources. Sources of matching funds include but are not limited to Basin Funds, in-kind services, funding from other sources, and/or direct cash match. Past expenditures directly related to the project may be considered as matching funds if the expenditures occurred within 9 months of the date the contract or purchase order between the applicant and the State of Colorado is executed. Please describe the source(s) of matching funds. (NOTE: These matching funds should also be reflected in your Detailed Budget in **Exhibit A** of this application)

The YWG Roundtable funds will be matched by over 80% with other funds. See budget below:

Project Cost & Funding Sources:

<u>CWCB Watershed Restoration Grant:</u>	<u>\$51,875</u>
<u>City of Steamboat Springs:</u>	<u>\$15,000</u> (Cash)
	<u>\$12,000</u> (In-Kind)
<u>Routt County:</u>	<u>\$5,000</u>
<u>Yampa Valley Flyfishers – TU</u>	<u>\$5,000</u>
<u>Yampa/White/Green BRT WRSA Account</u>	<u>\$21,000</u>
<u>Total Project Cost:</u>	<u>\$109,875</u>

2. For Applications that include a request for funds from the **Statewide Account**, describe how the water activity/project meets all applicable **Evaluation Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines and repeated below.) Projects will be assessed on how well they meet the Evaluation Criteria. **Please attach additional pages as necessary.**

Evaluation Criteria – the following criteria will be utilized to further evaluate the merits of the water activity proposed for funding from the Statewide Account. In evaluation of proposed water activities, preference will be given to projects that meet one or more criteria from each of the three “tiers” or categories. Each “tier” is grouped in level of importance. For instance, projects that meet Tier 1 criteria will outweigh projects that only meet Tier 3 criteria. The applicant should also refer to the Supplemental Scoring Matrix applied to Evaluation Criteria Tiers 1-3 for Statewide Account requests. WSRG grant requests for projects that may qualify for loans through the CWCB loan/WSRG grant package will receive preference in the Statewide Evaluation Criteria if the grant request is part of a CWCB loan/WSRG grant package. For these CWCB loan/WSRG grant packages, the applicant must have a CWCB loan/WSRG grant ratio of 1:1 or higher. Preference will be given to those with a higher loan/grant ratio.

Tier 1: Promoting Collaboration/Cooperation and Meeting Water Management Goals and Identified Water Needs

- a. The water activity addresses multiple needs or issues, including consumptive and/or non-consumptive needs, or the needs and issues of multiple interests or multiple basins. This can be demonstrated by obtaining letters of support from other basin roundtables (in addition to an approval letter from the sponsoring basin).
- b. The number and types of entities represented in the application and the degree to which the activity will promote cooperation and collaboration among traditional consumptive water interests and/or non-consumptive interests, and if applicable, the degree to which the water activity is effective in addressing intrabasin or interbasin needs or issues.

Water Supply Reserve Account – Application Form

Revised October 2013

- c. The water activity helps implement projects and processes identified as helping meet Colorado’s future water needs, and/or addresses the gap areas between available water supply and future need as identified in SWSI or a roundtable’s basin-wide water needs assessment.

Tier 2: Facilitating Water Activity Implementation

- d. Funding from this Account will reduce the uncertainty that the water activity will be implemented. For this criterion the applicant should discuss how receiving funding from the Account will make a significant difference in the implementation of the water activity (i.e., how will receiving funding enable the water activity to move forward or the inability obtaining funding elsewhere).
- e. The amount of matching funds provided by the applicant via direct contributions, demonstrable in-kind contributions, and/or other sources demonstrates a significant & appropriate commitment to the project.

Tier 3: The Water Activity Addresses Other Issues of Statewide Value and Maximizes Benefits

- f. The water activity helps sustain agriculture & open space, or meets environmental or recreational needs.
- g. The water activity assists in the administration of compact-entitled waters or addresses problems related to compact entitled waters and compact compliance and the degree to which the activity promotes maximum utilization of state waters.
- h. The water activity assists in the recovery of threatened and endangered wildlife species or Colorado State species of concern.
- i. The water activity provides a high level of benefit to Colorado in relationship to the amount of funds requested.
- j. The water activity is complimentary to or assists in the implementation of other CWCB programs.

Continued: Explanation of how the water activity/project meets all applicable **Evaluation Criteria**.

Please attach additional pages as necessary.

Part IV. – Required Supporting Material

1. **Water Rights, Availability, and Sustainability** – This information is needed to assess the viability of the water project or activity. Please provide a description of the water supply source to be utilized, or the water body to be affected by, the water activity. This should include a description of applicable water rights, and water rights issues, and the name/location of water bodies affected by the water activity.

The intent of the Stream Management Plan is to refine non-consumptive flow needs for this reach of the Yampa River and then to assess the availability of direct flow and/or storage water rights that could help to meet that target flow. Assessing which water supplies could be utilized to support stream flows in the Yampa River from the Chuck Lewis State Wildlife Area to the City of Steamboat Springs Wastewater Treatment Facility is a component of the project.

2. Please provide a brief narrative of any related studies or permitting issues.

The City has access to a number of existing plans, reports, and data that have already been collected or created that will inform the development of the Stream Management Plan.

Water Supply Reserve Account – Application Form

Revised October 2013

- Aquatic and terrestrial habitat conditions were evaluated between 2004 and 2008 and this info will be cross referenced and compared with new studies to see if any changes have occurred.
- The 2003 Yampa River Management Plan provided a thorough analysis of the geomorphic conditions of this reach and made management and data collection strategy recommendations, many of which have been implemented over the last 13-years. Given the dynamic natural system of the Yampa River, plan recommendations do not reflect the current state of the river, recent challenges such as the proliferation of invasive species like Northern Pike, flood events that have shifted hydrology followed by multi-year droughts, increased water demand, emerging water quality impairments such as temperature, and an increase in recreational use of the river that has triggered conflict in the community, or recent opportunities such as legislation and State Engineer policies that allow for more flexible flow deliveries for non-consumptive needs and the understanding that was gained by modeling the basin for Roundtable's BIP.
- The USGS Water Quality Assessment and Macro-Invertebrate Data for the Upper Yampa Watershed, Colorado 1975-2009 compiled and analyzed data from the watershed, predicted load-sources, and identified trends. The assessment provides statistically relevant data sets from the 5th Street Bridge Stream Gauge within downtown Steamboat Springs. Trend data will help to predict stream flow and water quality needs for the river.
- The Upper Yampa Watershed Group produced the 2014 State of the Upper Yampa Watershed Report that took a watershed-scale look at stream health, water quality, and factors that influence both. The Report identified several concerns for the city reach of the Yampa, including hydrologic conditions that advantage non-native species, warming temperatures, low flow drought conditions, nutrient-loading, and recreational conflicts. A Watershed Action Plan that prioritizes projects that address these concerns is under development with a current draft calling for an update to the Yampa River Management Plan and a *Preferred Target Flow*.
- The Yampa/White/Green BIP modeled current and future flow conditions that help to predict water supplies to proposed consumptive and non-consumptive needs, such as the Steamboat Springs Yampa River *Preferred Target Flow*. It also identified eight basin goals, including the goals to quantify and protect non-consumptive water uses and to develop an integrated system of water use, storage, administration and delivery to reduce water shortages and meet environmental and recreational needs. The proposed Stream Management Plan will be the next step as outlined in the Yampa/White/Green's BIP.

3. Statement of Work, Detailed Budget, and Project Schedule

The statement of work will form the basis for the contract between the Applicant and the State of Colorado. In

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short, the Applicant is agreeing to undertake the work for the compensation outlined in the statement of work and budget, and in return, the State of Colorado is receiving the deliverables/products specified. **Please note that costs incurred prior to execution of a contract or purchase order are not subject to reimbursement.** All WSRA funds are disbursed on a reimbursement basis after review invoices and appropriate backup material.

Please provide a detailed statement of work using the template in Exhibit A. Additional sections or modifications may be included as necessary. Please define all acronyms and include page numbers.

REPORTING AND FINAL DELIVERABLE

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the statement of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

PAYMENT

Payment will be made based on actual expenditures and invoicing by the applicant. Invoices from any other entity (i.e. subcontractors) cannot be processed by the State. The request for payment must include a description of the work accomplished by major task, and estimate of the percent completion for individual tasks and the entire water activity in relation to the percentage of budget spent, identification of any major issues and proposed or implemented corrective actions. The last 10 percent of the entire water activity budget will be withheld until final project/water activity documentation is completed. All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and help promote the development of a common technical platform.

Water Supply Reserve Account – Application Form

Revised October 2013

The above statements are true to the best of my knowledge:

Signature of Applicant:



Print Applicant's Name: Gary Suiter

Project Title: Interim City Manager, City of Steamboat Springs

Date: 5/26/16

Return an electronic version (hardcopy may also be submitted) of this application to:

Craig Godbout – WSRA Application
Colorado Water Conservation Board
1313 Sherman St., Room 721
Denver, CO 80203
303-866-3441, ext. 3210 (office)
303-547-8061 (cell)
craig.godbout@state.co.us

Exhibit A
Statement of Work
Date: May 31st, 2016

WATER ACTIVITY NAME - Steamboat Springs Yampa River Management Plan

GRANT RECIPIENT – City of Steamboat Springs

FUNDING SOURCE – Water Supply Reserve Account – Basin Account

Introduction and Background

As the last remaining wild free flowing river in the Colorado River Basin and one of the last free flowing rivers in the Western United States, the Yampa River is a natural asset for the Steamboat Springs community and Colorado alike. To protect this asset, the City of Steamboat Springs proposes to develop a Stream Management Plan for the Yampa River through Steamboat Springs to include the reach from the Chuck Lewis State Wildlife Area to the Steamboat Springs Waste Water Treatment Plant.

As the Yampa/White/Green Basin Roundtable's Basin Implementation Plan (BIP) and Colorado's Water Plan point out, the link between water quality and water supply is inseverable. As the Yampa River Basin experienced back to back years of drought in 2012 and 2013, employing flow management strategies to meet the non-consumptive needs, such as storage releases from Stagecoach Reservoir, helped to mitigate the potential environmental impacts to our river. But a long-term strategy for supplying non-consumptive needs of the Yampa River has yet to be secured.

Therefore, the City is proposing to develop a Stream Management Plan that engages its community and acts upon the guidance of the 2003 Yampa River Management Plan, the State of the Watershed Report, and the Yampa/White/Green's Basin Implementation Plan. By assessing water quality, aquatic life, and channel morphology, we can refine flow targets that are data-based and that fit within the context water rights administration. Warming temperatures have emerged as a water quality concern and this reach of the river has been placed on the State's 303d Impaired Waterbody List for temperature. Temperature and the concern that nutrients, channel geometry, invasive species and over-use by recreation are putting our unique waterbody at risk are evidence that our community must collaborate on a Stream Management Plan that advises how to prevent our river from crossing a threshold that cannot be reversed.

Objectives

This project to develop a Stream Management Plan has the objectives of protection of a natural resource, engagement and buy-in from stakeholders, and creation of clearly defined prioritized projects for moving forward. Our steps to achieve these objectives are:

- 1) Convene a project team

-
- 2) Develop a Stream Management Plan capable of identifying a preferred target flow, a baseflow that is needed to support temperature, water quality, and aquatic life for the Yampa River from the Chuck Lewis State Wildlife Area to the Steamboat Springs Wastewater Treatment Facility.
 - 3) Engage diverse stakeholders to inform and drive decisions on how best to accomplish the primary objective.
 - 4) Review existing water quality data from USGS stations and other sources located within the subwatershed to disseminate information, identify trends, and understand shortfalls within existing data and infrastructure.
 - 5) Analyze and review selected components of the Steamboat Springs' water rights portfolio to determine source, quantity, and location of right and determine how to apply water for river health benefits.
 - 6) Quantify historic wetland and riparian habitat and compare to water quantity and quality to help prioritize restorations and protections.
 - 7) Review water quantity and quality data to determine most strategic locations for stream and wetland enhancement, restoration, creation that may help address stream temperature, water quality, and aquatic life goals.
 - 8) Develop and deliver and final report.

TASKS

Task 1 – Convene a Project Team, Refine Objectives, Contract a Project Manager

Description of Task: A Project Team will form to operate as a steering committee that refines objectives and that engages throughout the life of the project. The City will contract a qualified consulting Project Manager to develop and implement a Stakeholder Engagement Plan, to coordinate and facilitate meetings, to track project milestones, to review existing reports and literature (with the support of the Project Team), to compile Technical Summaries and stakeholder input, and to generate implementation scenarios within the Final Report.

Method/Procedure: Kelly Romero-Heaney, the City's Water Resources Manager, will lead the Project Team of representatives from the City's Parks & Community Services Division, Colorado Parks & Wildlife, the Colorado Water Trust, and the Project Manager. Other Project Team members may be identified as a component of this task. The Project Team will meet to refine the objectives. The City will incorporate these objectives into a Scope of Work or RFP for the Project Manager and will follow its contracts & procurement processes.

Deliverable: A Project Team kick-off meeting and a refined Scope of Work or RFP for a Project Manager. An executed contract with a Project Manager.

Task 2 –Develop and Implement a Stakeholder Engagement Plan

Description of Task: Input from diverse stakeholders will be crucial to successfully developing a SMP that is implementable due to substantial public support from engaged groups. The Project Team will convene general stakeholder meetings with topic-specific stakeholder meetings occurring as warranted to capture their insights, concerns, and needs and to adapt the plan to

address stakeholder input to the greatest extent possible. The Project Team will identify potential stakeholders, and to develop a Stakeholder Engagement & Communications Plan.

Method/Procedure: The Project Team will identify potential stakeholders and determine whether targeted or general outreach is appropriate for each entity. The Project Manager will then develop a Stakeholder Engagement Plan. The Project Team will use the Stakeholder Engagement Plan to establish regular meetings with stakeholders, including at least two public meetings for the general public to have input on the SMP. Communication will be conducted via email blasts, personal calls, and notification in the newspaper. Potential stakeholders may include but are not limited to:

- Division 6 Engineer, Erin Light
- Upper Yampa Watershed Group
- Upper Yampa Water Conservancy District
- Ducks Unlimited
- Colorado Parks & Wildlife
- Trout Unlimited
- Yampa Valley Flyfishers (Local TU Chapter)
- Colorado Water Trust
- Tri-State Generation
- Xcel
- Community Agricultural Alliance
- CSU Extension
- Routt County Conservation District
- Yampa Valley Land Trust
- Yampa/White/Green Basin Roundtable
- Routt County Environmental Health Department
- The Nature Conservancy
- Friends of the Yampa
- Flyfishing Businesses
- Mount Werner Water
- City of Steamboat Springs WWTF Manager
- CDPHE
- USGS
- NRCS
- US Forest Service
- US Fish & Wildlife
- Town of Hayden
- City of Steamboat City Council
- Routt County Board of Commissioners
- Yampatika
- River Watch
- Ranchers & Farmers
- Steamboat Ski & Resort Corp
- Yampa Valley Sustainability Council
- Town of Milner
- Yampa River Legacy Partners
- Tubing & Rafting Companies
- Steamboat Chamber of Commerce
- City of Steamboat Planning Department
- Routt County Planning Department
- CDOT
- CWCB
- Interested Community Members
- American Rivers
- American Whitewater

Deliverable: A Stakeholder Engagement Plan. Meeting minutes.

Task 3 – Evaluate Existing Reports & Water Quality/Habitat Data; Identify Data Gaps

Description of Task: Numerous studies, such as the 2003 Yampa River Management Plan, have been conducted on this reach of the Yampa River. The Project Team will review existing reports to determine which information is useful, capable of providing solid baseline information on water temperature and aquatic life, and to assure the SMP is working in conjunction with other previous plans. Using review of USGS station data, CDSN, Yampa River Monitoring Data 2004/2005 and other information sources, the team will determine a baseline for measuring future success in meeting stream health and water quality targets. Information will also be used to identify data and expertise gaps and to determine where additional monitoring should occur.

Method/Procedure: The Project Team will review and compile information. The Project Team will review existing databases (USGS and CDSN) and will reach out to specific stakeholders to compile other data sources. The Project Team will determine the best water quality and habitat monitoring sites based on completeness of historic data and locations where stream improvements due to flow regimen and restoration changes may be evaluated.

Deliverable: Technical Summary to be used as addendum to interim and final reports. A Technical Summary of baseline conditions, stream health and water quality targets, and data gaps. Following review and comprehension of existing reports and data, the Project Team will identify shortfalls within the team's expertise and seek either in-kind or contracted expertise. Potential contractors may include fisheries biologists, fluvial geomorphologists, and data analysts. Additional contracts are beyond the scope of this grant and will be funded through other sources.

Task 4—Identification of Water Quality Targets and a *Preferred Target Flow*

Description of Task: The Project Team will identify Water Quality Targets and a *Preferred Target Flows* that support stream health parameters, such as temperature and aquatic life. Data analysis will inform the development of a discharge vs. temperature curve. It is anticipated that R2CROSS or some other method to identify aquatic life flow needs will be performed to refine the *Preferred Target Flow*.

Method/Procedure: The Project Team will synthesize the outcomes from Task #4 and stakeholder engagement to identify water quality and stream health targets. The Project Manager with the support of the Project Team will analyze stream health-flow relationships, such as temperature vs. discharge, to identify flow targets. In-kind expertise will be utilized to conduct R2CROSS or other aquatic life flow needs assessments.

Deliverable: A Technical Summary identifying the *Preferred Target Flow*.

Task 5 – Water Rights Research

Description of Task: The Colorado Water Trust will perform analysis of portions of the Steamboat Springs water rights portfolio including source, quantity, and location of application.

Method/Procedure: The CWT has already conducted significant review of Steamboat water rights, and will continue to provide that expertise. Note that components of this analysis must remain confidential due to the legal nature of water rights. It is anticipated that CWT will provide two versions of the Technical Summary—the first, a summary to be made publicly available, the second a more detailed yet privileged summary that will guide various scenarios aimed at meeting *Preferred Target Flows*. This

is a necessary step to protect the City's water rights portfolio and to ensure the long-term viability of the community's drinking water supplies.

Deliverable: Two versions of a Technical Summary (one confidential and the other to be included as an addendum to the Final Report) of opportunities identified to help meet the *Preferred Target Flow*.

Task 6 – Habitat Improvement, Protection, and Wetland Recharge

Description of Task: Wetland and riparian habitat provides many functions to improve life functions for wildlife, fish, water quantity and quality, and flood attenuation. The Project Team will explore existing data and perform stakeholder interviews to determine the potential for wetlands and riparian restoration to aid in water quality issues such as temperature, assess river base flow augmentation through wetland aquifer recharge, and identify opportunities for riparian enhancement.

Method/Procedure: The Project Team will review water quantity and quality data to determine most strategic locations for wetland and riparian habitat enhancement, restoration, creation that may help address stream temperature and aquatic life goals.

Deliverable: A Technical Summary will be developed for inclusion in interim and final reports.

Tasks 7 – Final Report

Description of Task: Completion of a Final Report

Method/Procedure: The Project Manager will compile Technical Summaries and stakeholder input to generate a Final Report with targets and implementation scenarios. The Project Team and other interested stakeholders will review draft versions of the report. The Final Report will be presented at a public stakeholder meeting.

Deliverable: Final Report & Presentation.

REPORTING AND FINAL DELIVERABLE

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the statement of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

BUDGET

Provide a detailed budget by task including number of hours and rates for labor and unit costs for other direct costs (i.e. mileage, \$/unit of material for construction, etc.). A detailed and perfectly balanced budget that shows all costs is required for the State's contracting and purchase order processes. Sample budget tables are provided below. Please note that these budget tables are examples and will need to be adapted to fit each individual application. Tasks should correspond to the tasks described above.

Task	Description	Target Start Date	Target Completion Date	CWCB Funds	Yampa/White/Green BRT WSRA Basin Account (Proposed)	Routt County Cash Match	Yampa Valley Flyfishers TU Cash Match	City Cash Match	City In-Kind Match	Total
1	Convene a Project Team, Refine Objectives, Contract a Project Manager	8/15/2016	11/15/2016						2,500.00	2,500.00
2	Identify and Implement a Stakeholder Engagement Plan	11/15/2016	3/30/2017	10,000.00					2,500.00	12,500.00
3	Evaluate Existing Reports & Water Quality/Habitat Data; Identify Data Gaps	12/12/2016	3/11/2017	3,875.00	6,000.00		2,500.00		2,500.00	14,875.00
4	Identification of Water Quality Targets and a Preferred Target Flow	3/11/2017	5/1/2017	18,000.00	5,000.00					23,000.00
5	Water Rights Research	1/1/2017	4/15/2017					15,000.00	2,000.00	17,000.00
6	Habitat Improvement, Protection, and Wetland Recharge	4/15/2017	9/15/2017	20,000.00			2,500.00			22,500.00
7	Final Report	9/15/2017	3/15/2018	0.00	10,000.00	5,000.00			2,500.00	17,500.00
				51,875.00	21,000.00	5,000.00	5,000.00	15,000.00	12,000.00	109,875.00
									Current Budget	\$109,875.00

In-Kind Contributions (If Applicable)				
Project Personnel:	City Water Resources Manager	City Parks, Open Space, & Trails Manager		
Hourly Rate:	(\$50)	(\$50)		Total
Task 1 - Convene a Project Team, Refine Objectives, Contract a Project Manager	2000	500		2,500
Task 2 - Identify and Implement a Stakeholder Engagement Plan	2,000	500		2,500
Task 3 - Evaluate Existing Reports & Water Quality/Habitat Data; Identify Data Gaps	2,000	500		2,500
Task 5 - Water Rights Research	2,000			2,000
Task 7 - Final Report	1,000	500		2,500
Total Hours:	200	40		240
Total Cost:	\$10,000	\$2,000		\$12,000

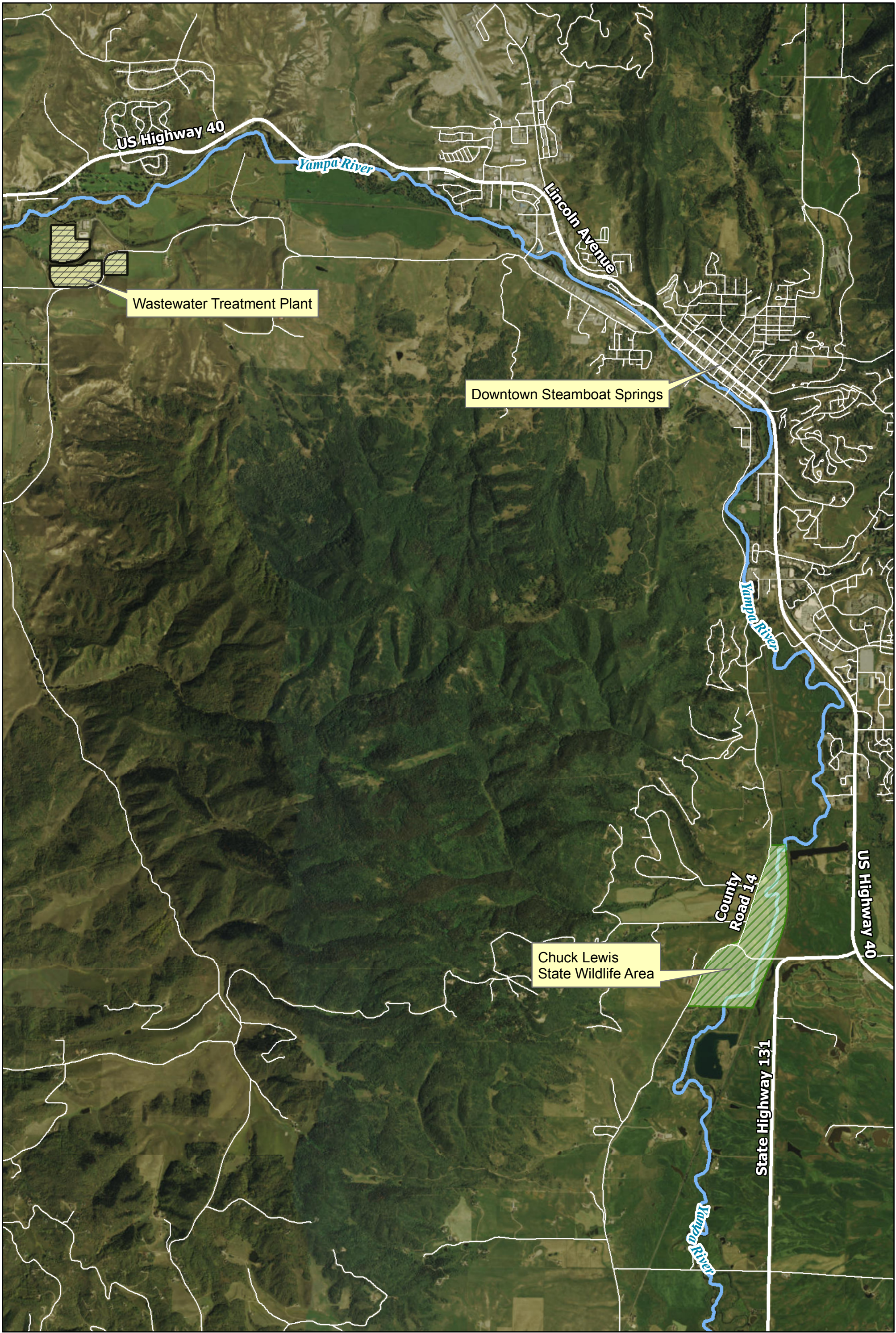
SCHEDULE

Provide a project schedule including key milestones for each task and the completion dates or time period from the Notice to Proceed (NTP). This dating method allows flexibility in the event of potential delays from the procurement process. Sample schedules are provided below. Please note that these schedules are examples and will need to be adapted to fit each individual application.

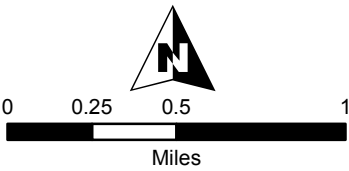
Water Supply Reserve Account - Yampa/White/Green BRT		Target Start Date	Target Completion Date
Steamboat Springs Yampa River Management Plan			
Task	Description		
1	Convene a Project Team, Refine Objectives, Contract a Project Manager	8/15/16	11/15/16
2	Identify and Implement a Stakeholder Engagement Plan	11/15/16	3/30/17
3	Evaluate Existing Reports & Water Quality/Habitat Data; Identify Data Gaps	12/12/16	3/11/17
4	Identification of Water Quality Targets and a <i>Preferred Target Flow</i>	3/11/17	5/1/17
5	Water Rights Research	1/1/17	4/15/17
6	Habitat Improvement, Protection, and Wetland Recharge	4/15/17	9/15/17
7	Final Report	9/15/17	3/15/18

PAYMENT

Payment will be made based on actual expenditures and invoicing by the applicant. Invoices from any other entity (i.e. subcontractors) cannot be processed by the State. The request for payment must include a description of the work accomplished by major task, and estimate of the percent completion for individual tasks and the entire water activity in relation to the percentage of budget spent, identification of any major issues and proposed or implemented corrective actions. The last 5 percent of the entire water activity budget will be withheld until final project/water activity documentation is completed. All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and help promote the development of a common technical platform.



Yampa River Management Plan Project Area
City of Steamboat Springs



Yampa River Photos

Recreation Photos – Tubers and Kayakers



Flyfishing at Chuck Lewis State Wildlife Area



Flyfishing at the A Hole



Rich Weiss Park



Fournier Open Space



Bear River Park



Flooding on the Yampa River



Before and After - Erosion at Bear River

