

**Water Supply Reserve Account – Grant and Loan Program**  
**Water Activity Summary Sheet**  
**September 19, 2018**  
**Agenda Item 12(c)**

**Applicant:** Beaver Park Water Incorporated

**Water Activity Name:** Upper Canal Lining Removal and Replacement – Phase 2

**Water Activity Purpose:** Agricultural, Municipal/Industrial, Non-consumptive (Recreational)

**County:** Fremont

**Drainage Basin:** Arkansas

**Water Source:** Beaver Creek, Brush Hollow Creek and Brush Hollow Reservoir

**Amount Requested/Source of Funds:**

\$8,000	Arkansas Basin Account
<u>\$80,000</u>	<u>Statewide Account</u>
\$88,000	Total Grant Request

**Matching Funds:** Basin Account Match (\$8,000) = 10% of Statewide Account request (meets 10% min);  
Applicant's cash & in-kind Match (\$40,000) = 50% of Statewide Account request (meets 10% min);  
Total Match (Basin & Applicant Match of \$48,000 = 60% of Statewide Account request (meets 50% min).  
(refer to *Funding Summary/Matching Funds* section)

<b>Staff Recommendation:</b>
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Staff recommends approval of up to \$8,000 from the Arkansas Basin Account; and \$80,000 from the Statewide Account to help fund the project titled: Upper Canal Lining Removal and Replacement Project – Phase 2
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**Water Activity Summary:**

If funded, the objectives of this project are to: continue Phase 2 to remove failed concrete sections of the Beaver Park Water Inc's (BPWI) Upper Canal and replace them with new formed concrete. A total of 4,526 linear feet of canal side has been currently identified by the applicant as being in need of removal and replacement. The applicant is in the process of completing Phase 1, removing and replacing 1,200 linear feet. Approximately 1,150 linear feet is being proposed for replacement in Phase 2.

This canal diverts water under the water rights owned by BPWI from Beaver Creek and supplies water to direct irrigation use for the shareholders of BPWI. The canal additionally delivers water to BPWI's Brush Hollow Reservoir for delivery to BPWI's Lower Canal for direct irrigation use and delivers these waters into storage in Brush Hollow Reservoir for later irrigation use. The BPWI

Upper Canal additionally delivers Beaver Creek waters to the Penrose Water District (PWD). The PWD has a direct water treatment plant intake from the BPWI Upper Canal and diverts and treats these waters daily to supply its domestic and municipal customers.

The total estimated water efficiency savings from this proposed water activity is 1,100 acre-feet/year. Approximately one quarter of this savings would be yielded from the Phase 1 work. The applicant states the water efficiency savings will be used to increase the availability of water supplies to the BPWI, the dependability of water deliveries to the PWD and increase typical storage levels in Brush Hollow Reservoir to the benefit of both the BPWI and wildlife, recreation and fishery interests of the Colorado Parks & Wildlife.

**Discussion:** The removal and replacement of the canal lining supports Chapter 10 Measurable Objective D: Agriculture Goal in the Colorado Water Plan; *“Maintain Agricultural Viability: Maintain agricultural productivity, support of rural economies and food security”*. By reducing the ditch canal seepage losses, this project helps fulfill the Critical Action: *Support Agricultural Conservation and Efficiency: make it more efficient, resilient and able to reduce water consumption without impacting agricultural productivity*.

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

**Eligibility Requirements:** The application meets requirements of the three subsections of the Eligibility Requirements: General Eligibility, Entity Eligibility, and Water Activity Eligibility.

**Eligibility Based on Funding Match Requirements:**

The application meets the Statewide Account Matching requirements.

**Evaluation Criteria:**

This activity has undergone review and evaluation and staff has determined that it satisfies the Evaluation Criteria. Please refer to WSRF Application for applicant’s detailed response.

<b><u>Funding Source</u></b>	<b><u>Cash</u></b>	<b><u>In-kind</u></b>	<b><u>Total</u></b>
Beaver Park Water Inc.	\$20,000	\$10,000	\$30,000
Beaver Park Mutual Capital Account	\$5,000	\$0	\$5,000
Penrose Water District	\$5,000	\$0	\$5,000
Sub-total	\$30,000	\$10,000	\$40,000
WSRF Arkansas Basin Account	\$8,000	n/a	\$8,000
WSRF Statewide Account	\$80,000	n/a	\$80,000
<b>Total Project Costs</b>	<b>\$118,000</b>	<b>\$10,000</b>	<b>\$128,000</b>

**CWCB Project Manager:** Ben Wade

# Arkansas Basin Roundtable

July 25, 2018

Via Electronic Mail: [ben.wade@state.co.us](mailto:ben.wade@state.co.us)

Mr. Ben Wade  
Colorado Water Conservation Board  
1313 Sherman Street, Room 721  
Denver, CO 80203

Re: Water Supply Reserve Fund Grant Application: Beaver Park Water Upper Canal Lining, Removal and Replacement Project Phase 2

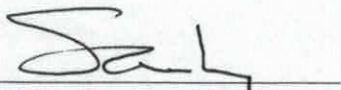
Dear Ben:

At its July 10, 2018 meeting, the Arkansas Basin Roundtable (ABRT) approved the Public Education, Participation and Outreach grant for Arkansas Basin Website grant application for \$8,000 in Basin Funds and \$80,000 in Statewide Funds. The applicant is providing \$40,000 in cash and in-kind contributions. There were no dissenting opinions expressed in the consensus decision. This agricultural infrastructure restoration project is Phase 2 of a multi-year program to reduce canal seepage and sustain an efficient delivery system.

The project meets the same goals as in Phase 1 (2017). The Beaver Park Water Upper Canal Lining, Removal and Replacement Project directly supports Objective D. Agriculture: *"Maintain Agricultural Viability: Maintain Colorado's agricultural productivity, support of rural economies, and food security (through meaningful incentives and grassroots efforts)."* Perhaps more significantly, the Project will demonstrably reduce ditch canal seepage losses, fulfilling the Critical Action: *"Support Agricultural Conservation and Efficiency: Support Colorado's agricultural industry to make it more efficient, resilient, and able to reduce water consumption without impacting agricultural productivity."*

Should you have any questions or concerns, please feel free to contact me either by telephone, 719-742-6164, or by email, [sandy@white-jankowski.com](mailto:sandy@white-jankowski.com).

With warm regards



Michael D. (Sandy) White  
Chair

Copy via email:  
Applicant  
ABRT Executive Committee



Last Update: August 3, 2017

## Colorado Water Conservation Board

### Water Supply Reserve Fund Grant Application

#### Instructions

All WSRF grant applications shall conform to the current [2016 WSRF Criteria and Guidelines](#).

To receive funding from the WSRF, a proposed water activity must be approved by a Roundtable(s) **AND** the Colorado Water Conservation Board (CWCB). The process for Roundtable consideration and recommendation is outlined in the 2016 WSRF Criteria and Guidelines. The CWCB meets bimonthly according to the schedule on page 2 of this application.

If you have questions, please contact the current CWCB staff Roundtable liaison:

#### Arkansas

Ben Wade  
[ben.wade@state.co.us](mailto:ben.wade@state.co.us)  
303-866-3441 x3238

#### Gunnison | North Platte | South Platte | Yampa/White

Craig Godbout  
[craig.godbout@state.co.us](mailto:craig.godbout@state.co.us)  
303-866-3441 x3210

#### Colorado | Metro | Rio Grande | Southwest

Megan Holcomb  
[megan.holcomb@state.co.us](mailto:megan.holcomb@state.co.us)  
303-866-3441 x3222

#### WSRF Submittal Checklist (Required)

X	I acknowledge this request for funding was recommended for CWCB approval by the sponsoring Basin Roundtable(s).
X	I acknowledge I have read and understand the <a href="#">2016 WSRF Criteria and Guidelines</a> .
X	I acknowledge the Grantee will be able to contract with CWCB using the <a href="#">Standard Contract</a> . <sup>(1)</sup>
Exhibit A	
X	<a href="#">Statement of Work</a> <sup>(2)</sup> (Word – see Exhibit A Template)
X	<a href="#">Budget &amp; Schedule</a> <sup>(2)</sup> (Excel Spreadsheet – see Exhibit A Template)
	Letters of Matching and/or Pending 3 <sup>rd</sup> Party Commitments <sup>(2)</sup>
Exhibit C	
	Map <sup>(2)</sup>
	Photos/Drawings/Reports
X	Letters of Support
	Certificate of Insurance <sup>(3)</sup> (General, Auto, & Workers' Comp.)
Contracting Documents	
	Certificate of Good Standing <sup>(3)</sup>
	W-9 <sup>(3)</sup>
	Independent Contractor Form <sup>(3)</sup> (If applicant is individual, not company/organization)
	Electronic Funds Transfer (ETF) Form <sup>(3)</sup>

(1) Click "Grant Agreements". For reference only/do not fill out or submit/required for contracting

(2) Required with application if applicable.

(3) Required for contracting. While optional at the time of this application, submission can expedite contracting upon CWCB Board approval.



Last Update: August 3, 2017

Schedule		
CWCB Meeting	Application Submittal Dates	Type of Request
January	December 1	Basin Account; BIP
March	February 1	Basin/Statewide Account; BIP
May	April 1	Basin Account; BIP
July	June 1	Basin Account; BIP
September	August 1	Basin/Statewide Account; BIP
November	October 1	Basin Account/BIP

Desired Timeline	
Desired CWCB Hearing Month:	September 2018
Desired Notice to Proceed Date:	December 1, 2018

Water Activity Summary	
Name of Applicant	Beaver Park Water Incorporated
Name of Water Activity	Upper Canal Lining Removal and Replacement (Phase 2)
Approving Roundtable(s)	Basin Account Request(s) <sup>(1)</sup>
Arkansas Basin Roundtable	\$ 8,000
Basin Account Request Subtotal	\$ 8,000
Statewide Account Request <sup>(1)</sup>	\$ 80,000
Total WSRF Funds Requested (Basin & Statewide)	\$ 88,000
Total Project Costs	\$ 128,000

(1) Please indicate the amount recommended for approval by the Roundtable(s)



Last Update: August 3, 2017

Grantee and Applicant Information	
Name of Grantee(s)	Beaver Park Water Incorporated
Mailing Address	P.O. Box 286, Penrose CO 81252
FEIN	84-0721934
Grantee's Organization Contact <sup>(1)</sup>	Gary Ratkovich
Position/Title	Beaver Park Water Inc. Board President
Email	<a href="mailto:ratkovich@bresnan.net">ratkovich@bresnan.net</a>
Phone	719-429-6762
Grant Management Contact <sup>(2)</sup>	Dawn Daniels
Position/Title	Office Manager
Email	<a href="mailto:ddaniels@beaverpark.water.net">ddaniels@beaverpark.water.net</a>
Phone	719-372-3664
Name of Applicant (if different than grantee)	
Mailing Address	
Position/Title	
Email	
Phone	

(1) Person with signatory authority

(2) Person responsible for creating reimbursement invoices (Invoice for Services) and corresponding with CWCB staff.

Description of Grantee
Provide a brief description of the grantee's organization (100 words or less).
<p>The Beaver Park Water Inc. (BPWI) is a mutual ditch company. The company owns water rights decreed to be diverted from Beaver Creek and Brush Hollow Creek in Fremont County, Colorado. The water diverted is used for direct irrigation and domestic uses as well as stored for these same uses.</p> <p>BPWI has approximately 575 shareholders with approximately 2,000 acres being irrigated under the BPWI water system. BPWI is additionally the principal water supplier to the Penrose Water District (PWD). PWD serves the domestic, municipal and commercial water needs of the Penrose, CO area.</p> <p>BPWI additionally owns Brush Hollow Reservoir. This reservoir is an on-channel reservoir on Brush Hollow Creek and is principally supplied water from Beaver Creek by BPWI's Upper Canal. This reservoir is principally an irrigation water supply reservoir but additionally stores reserve water supplies for the PWD sourced from PWD's own pump and pipeline system from the Arkansas River. By contract between BPWI and the Colorado Parks &amp; Wildlife, Brush Hollow Reservoir also serves as a fish, wildlife and public recreational water supply by means of a minimum pool reservation.</p>



Last Update: August 3, 2017

Type of Eligible Entity (check one)	
	<b>Public (Government):</b> municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities. Federal agencies are eligible, but only if they can make a compelling case for why a local partner cannot be the grant recipient.
	<b>Public (Districts):</b> authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises
X	<b>Private Incorporated:</b> mutual ditch companies, homeowners associations, corporations
	<b>Private Individuals, Partnerships, and Sole Proprietors:</b> are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
	<b>Non-governmental organizations:</b> broadly, any organization that is not part of the government
	<b>Covered Entity:</b> as defined in <a href="#">Section 37-60-126 Colorado Revised Statutes</a>

Type of Water Activity (check one)	
	Study
	Implementation

Category of Water Activity (check all that apply)		
	Nonconsumptive (Environmental)	
X	Nonconsumptive (Recreational)	
X	Agricultural	
X	Municipal/Industrial	
	Needs Assessment	
	Education & Outreach	
	Other	Explain:

Location of Water Activity	
Please provide the general county and coordinates of the proposed activity below in <b>decimal degrees</b> . The Applicant shall also provide, in Exhibit C, a site map if applicable.	
County/Counties	Fremont County
Latitude	N 38° 27.1'
Longitude	W 105° 1.1'





Last Update: August 3, 2017

### Water Activity Overview

Please provide a summary of the proposed water activity (200 words or less). Include a description of the activity and what the WSRF funding will be used for specifically (e.g. studies, permitting, construction). Provide a description of the water supply source to be utilized or the water body affected by the activity. Include details such as acres under irrigation, types of crops irrigated, number of residential and commercial taps, length of ditch improvements, length of pipe installed, area of habitat improvements. If this project addresses multiple purposes or spans multiple basins, please explain. The Applicant shall also provide, in Exhibit A, a detailed Statement of Work, Budget, and Schedule.

Phase two of this project will remove and replace the next identified (Phase 2) section of damaged BPWI canal lining. Due to its use year-round in delivering water for direct irrigation use and winter period storage deliveries, the Upper Canal has suffered damage and failure to sections of the concrete lining of this canal. This damage has caused increased transit losses of water and erosion of soil material. It is thought that freezing and thawing of these seepage waters have also contributed to the failure of the canal sides.

The proposed water activity is to remove these failed concrete sections and replace them with new formed concrete. A total of 4,526 linear feet of canal side has been currently identified as needing removal and replacement. This amount of replacement is planned to be accomplished, pending funding, over a four-year period. Phase one of the project is still underway with 776 liner feet complete to date. An additional 424 liner feet will be repaired through Phase 1 funding at the end of the irrigation season. Funding for Phase 2 will continue the rehabilitation of the canal including an additional 1,150 liner-feet of replacement. Phase 2 will bring the implementation of the project to approximately 50% of completion. Due to the dry conditions this year, it is expected that repairs can be made throughout the winter months, expediting the process.

The total estimated water efficiency savings from this proposed water activity is 1,100 acre-feet/year. Approximately one half of this savings would be yielded from this proposal for Phase 2 of the project. These water efficiency savings will be used to increase the availability of waters supplies to the BPWI, the dependability of water deliveries to the PWD and increase typical storage levels in Brush Hollow.

### Measurable Results

To catalog measurable results achieved with WSRF funds please provide any of the following values.

	New Storage Created (acre-feet)
	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive
4,185.62	Existing Storage Preserved or Enhanced (acre-feet)
	Length of Stream Restored or Protected (linear feet)
275 acre-feet/year (total 1,100 acre-feet in 4- years)	Efficiency Savings (indicate acre-feet/year OR dollars/year)
	Area of Restored or Preserved Habitat (acres)
1,150 feet of canal/phase	Length of Pipe/Canal Built or Improved





Last Update: August 3, 2017

### Water Activity Justification

Provide a description of how this water activity supports the goals of [Colorado's Water Plan](#), the most recent [Statewide Water Supply Initiative](#), and the respective [Roundtable Basin Implementation Plan and Education Action Plan](#) <sup>(1)</sup>. The Applicant is required to reference specific needs, goals, themes, or Identified Projects and Processes (IPPs), including citations (e.g. document, chapters, sections, or page numbers).

For applications that include a request for funds from the Statewide Account, the proposed water activity shall be evaluated based upon how well the proposal conforms to Colorado's Water Plan criteria for state support (CWP, Section 9.4, pp. 9-43 to 9-44;) (Also listed pp. 4-5 in [2016 WSRF Criteria and Guidelines](#)).

**The water activity addresses multiple needs or issues-** *The proposed water activity will at least in part address the significant transit losses within the BPWI Upper Canal. The resulting benefit of water savings will benefit BPWI's shareholder irrigation interests, the PWD water supply interests by increasing dependability of BPWI deliveries and reducing the turbidity levels of these deliveries. The increased water savings will additionally result in greater amounts of water delivered to Brush Hollow Reservoir resulting in increased reservoir levels to this reservoir thus providing for greater wildlife, recreation and fishery benefits as sought by the Colorado Parks & Wildlife.*

**Promote cooperation and collaboration among traditional consumptive and/or non-consumptive interests-** *Support by the Colorado Parks & Wildlife in cooperation with the BPWI will result in a collaboration between the traditional BPWI irrigation consumptive water interest and the Colorado Parks & Wildlife non-consumptive interests at Brush Hollow Reservoir.*

**Addresses the gap areas between available water supply and future need as identified in SWSI or a roundtable's basin-wide water needs assessment-** *the proposed water activity is ultimately estimated to result in up to 1,100 acre-feet of efficiency savings per year. This water savings will result in a greater irrigation water supply to the historically water short BPWI irrigation system and will potentially during drought periods increase the dependability and quantity of water available from BPWI to the PWD.*

**Funding from this Account will reduce the uncertainty that the water activity will be implemented-** *due to existing expenses of operating a small mutual irrigation system, BPWI cannot solely fund the proposed water activity. The level and quantity of needed repairs to the principle water delivery component of BPWI's irrigation system is beyond BPWI's sole financial ability to fully repair.*

**The water activity helps sustain agriculture & open space, or meets environmental or recreational needs-** *One of the principle objectives of the BPWI board of directors is to maintain the irrigated rural atmosphere and environment of the Penrose area. Maintenance and repair of the BPWI irrigation system is paramount to this objective. Inability to maintain the functionality of this irrigation system would ultimately result in the drying up of the presently irrigated 2,000 acres of land, an inability to provide principle physical water supply to the PWD and the cessation of water storage in Brush Hollow Reservoir. Solely funding this water actively by BPWI would require a company share assessment beyond the agricultural economic ability of the shareholders to maintain. This cost increase would entail a negative future benefit of agricultural activities under the BPWI system thus eventually leading to a cessation of irrigation under this system. This would be counter to sustaining agriculture and the corresponding open spaces related to agriculture.*

(1) Access Basin Implementation Plans or Education Action Plans from Basin drop down menu.



Last Update: August 3, 2017

### Matching Requirements: Basin Account Requests

**Basin (only) Account** grant requests require a 25% match (cash and/or in-kind) from the Applicant or 3<sup>rd</sup> party and shall be accompanied by a **letter of commitment** as described in the 2016 WSRF Criteria and Guidelines (submitted on the contributing entity's letterhead). Attach additional sheet if necessary.

Contributing Entity	Amount and Form of Match (note cash or in-kind)
Total Match	\$
If you requested a Waiver to the Basin Account matching requirements, indicate the percentage you wish waived.	

### Matching Requirements: Statewide Account Requests

**Statewide Account** grant requests require a 50% match as described in the 2016 WSRF Criteria and Guidelines. A minimum of 10% match shall be from Basin Account funds (cash only). A minimum of 10% match shall be provided by the applicant or 3<sup>rd</sup> party (cash, in-kind, or combination). The remaining 30% of the required match may be provided from any other source (Basin, applicant, or 3<sup>rd</sup> party) and shall be accompanied by a **letter of commitment**. Attach additional sheet if necessary.

Contributing Entity	Amount and Form of Match (note cash or in-kind):
Beaver Park	\$20,000
Beaver Park Mutual Capital Account	\$5,000
Beaver Park In-Kind	\$10,000
Penrose Water District	\$5,000
Arkansas Basin Roundtable	\$8,000
Total Match	\$48,000
If you requested a Waiver to the Statewide Account matching, indicate % you wish waived. (Max 50% reduction of requirement).	



Last Update: August 3, 2017

### Related Studies

Please provide a list of any related studies, including if the water activity is complimentary to or assists in the implementation of other CWCB programs.

This proposal is phase two of a previously funded WSRF application. This project is complimentary to the CWCB's water conservation and irrigated agricultural programs.

### Previous CWCB Grants

List all previous or current CWCB grants (including WSRF) awarded to both the Applicant and Grantee. Include: 1) Applicant name; 2) Water activity name; 3) Approving RT(s); 4) CWCB board meeting date; 5) Contract number or purchase order

Yes, this is phase 2 of a previously awarded WSRF grant

- (1) Beaver Park Water Incorporated, (2) Beaver Park Water Incorporated - Upper Canal Lining Removal and Replacement Project (3) Arkansas Basin Roundtable (4) September 2017 (5) CTGG1 2018-992.

### Tax Payer Bill of Rights

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.

BPWI is a private mutual ditch company. BPWI is not affected by TABOR restrictions.



Last Update: May 19, 2017

<b>Colorado Water Conservation Board</b>	
<b>Water Supply Reserve Fund</b>	
<b><u>Exhibit A - Statement of Work</u></b>	
<b>Date:</b>	7/19/2018
<b>Water Activity Name:</b>	Upper Canal Lining Removal and Replacement (Phase 2)
<b>Grant Recipient:</b>	Beaver Park Water Incorporated
<b>Funding Source:</b>	WSRF
<b>Water Activity Overview and Objectives:</b> (Please provide brief description of the proposed water activity (no more than 200 words). Include a description of the overall water activity and specifically what the WSRF funding will be used for.	
<p>The proposed water activity is to remove failed concrete sections and replace them with new formed concrete. A total of 4,526 linear feet of canal side has been currently identified as needing removal and replacement. This amount of replacement is planned to be accomplished, pending funding, over a four-year period. Phase one of the project is still underway with 776 liner feet complete to date. An additional 424 liner feet will be repaired through Phase 1 funding at the end of the irrigation season. Funding for Phase 2 will continue the rehabilitation of the canal including an additional 1,150 liner-feet of replacement. Phase 2 will bring the implementation of the project to approximately 50% of completion. Due to the dry conditions this year, it is expected that repairs can be made throughout the winter months, expediting the process.</p> <p>The total estimated water efficiency savings from this proposed water activity is 1,100 acre-feet/year. Approximately one half of this savings would be yielded from this proposal for Phase 2 of the project. These water efficiency savings will be used to increase the availability of waters supplies to the BPWI, the dependability of water deliveries to the PWD and increase typical storage levels in Brush Hollow.</p>	



Last Update: May 19, 2017

Tasks
Provide a detailed description of each task using the following format:
<b><u>Task 1 – Removal and Replacement of Concrete</u></b>
Description of Task:  Task 1 is the primary task and includes all construction and implementation for this phase of the project. Task 1 will implement the removal and replacement of approximately 1,150 linear feet of damaged canal lining. This task also includes the disposal and hauling of materials from the site.
Method/Procedure: <ul style="list-style-type: none"><li>• Remove approximately 1,150 linear feet of existing failed concrete canal lining on either the north or south half of the canal as appropriate.</li><li>• Grade and prepare soil for installation of new concrete lining. Form and place new reinforced concrete canal half sections.</li><li>• Import additional soil as necessary to fill any voids on the back side and top of new concreted lined sections. Place and compact this additional soil as appropriate to prevent infiltration of any surface waters behind new concreted canal sections. Grade and finish soils at new canal sections to proper grade for correct drainage.</li><li>• Hauling and disposal of any materials</li></ul>
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
Grantee deliverables include the removal and replacement of Phase 2 section of the BPWI Upper Canal which includes approximately 1,150 linear feet.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
The deliverable the grantee will provide the CWCB will be any associated, photographic evidence of the work performed including before and after photographs and contractor invoices.



Last Update: May 19, 2017

Tasks
Provide a detailed description of each task using the following format:
<b><u>Task 2 – Engineering Inspection, Project Management and Final Reporting</u></b>
Description of Task:  Staff Engineer will provide project management throughout the project process including: engineering inspections of construction preparation, installation, and finishing. The Staff Engineer will also provide a final report for the project.
Method/Procedure: <ul style="list-style-type: none"><li>• Provide project management and engineering inspections throughout the project</li><li>• Develop a final report and provide documentation of project completion (photos, maps, graphs)</li></ul>
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
Staff Engineer provides adequate oversight throughout the project timeline and provides a detailed final report.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
Final engineering report, documentation, and associated invoices.



Last Update: May 19, 2017

Tasks
Provide a detailed description of each task using the following format:
<b><u>Task 3 – Grant Management</u></b>
Description of Task:  Beaver Park Administrative Staff will provide grant management as an in-kind match for the project duration.
Method/Procedure: <ul style="list-style-type: none"><li>• Provide 6-month progress reports</li><li>• Provide reimbursement documentation</li><li>• Provide final deliverables (engineering report, invoicing, reimbursement documents)</li><li>• Provide management of project deadlines and requirements</li></ul>
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
Successful management of grant funds throughout the project including reporting and grant reimbursements
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
Successful delivery of progress reports and reimbursement documentation on time and in completion to CWCB Staff



**COLORADO**Colorado Water  
Conservation Board

Department of Natural Resources

**Colorado Water Conservation Board****Water Supply Reserve Fund****EXHIBIT B - BUDGET AND SCHEDULE - Direct & Indirect (Administrative) Costs****Date: September 2018****Water Activity Name: Upper Canal Lining Removal & Replacement Phase 2****Grantee Name: Beaver Park Water**

<b>Task No.</b> <sup>(1)</sup>	<b>Description</b>	<b>Start Date</b> <sup>(2)</sup>	<b>End Date</b>	<b>Matching Funds</b> (cash & in-kind) <sup>(3)</sup>	<b>WSRF Funds</b> (Basin & Statewide combined) <sup>(3)</sup>	<b>Total</b>
<b>1</b>	Removal and Replacement	12/15/2018	11/15/2022	\$ 37,200	\$ 88,000	\$ 125,200
<b>2</b>	Engineering Inspection & Management	12/15/2018	11/15/2022	\$ 1,800	\$ -	\$ 1,800
<b>3</b>	Grant Management	12/15/2018	11/15/2022	\$ 1,000	\$ -	\$ 1,000
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
<b>Total</b>				<b>\$40,000</b>	<b>\$88,000</b>	<b>\$128,000</b>

**(1)** The single task that include costs for Grant Administration must provide a labor breakdown (see Indirect Costs tab below) where the total WSRF Grant contribution towards that task does not exceed 15% of the total WSRF Grant amount.

**(2)** Start Date for funding under \$100K - 45 Days from Board Approval; Start Date for funding over \$100K - 90 Days from Board Approval.

**(3)** Round values up to the nearest hundred dollars.

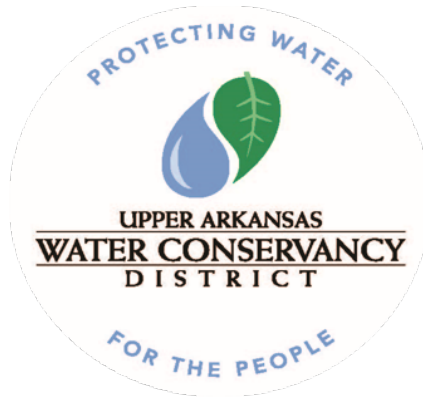
- Reimbursement eligibility commences upon the grantee's receipt of a Notice to Proceed (NTP)

- NTP will not be accepted as a start date. Project activities may commence as soon as the grantee enters contract and receives formal signed State Agreement.

The CWCB will pay the last 10% of the entire water activity budget when the Final Report is completed to the satisfaction of the CWCB staff project manager. Once the Final Report has been accepted, the final payment has been issued, the water activity and purchase order (PO) or contract will be closed without any further payment. Any entity that fails to complete a satisfactory Final Report and submit to the CWCB with 90 days of the expiration of the PO or contract may be denied consideration for future funding of any type from the CWCB.

- Additionally, the applicant shall provide a progress report every 6 months, beginning from the date of contract execution

- Standard contracting procedures dictate that the Expiration Date of the contract shall be 5 years from the Effective Date.



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August 1, 2018

Ben Wade  
Colorado Water Conservation Board  
1313 Sherman Street, Room 718  
Denver, CO 80203

RE: Letter of Support/Matching Commitment – Monarch Pass Forest and Watershed Health Project

Dear Mr. Wade:

We appreciate the opportunity to support the Monarch Pass Forest and Watershed Health Project. The Monarch Pass Forest and Watershed Health Project is a collaborative effort to address extreme forest degradation in the Upper Arkansas Basin and will lead as an example by utilizing new fuel reduction techniques, promoting industry, and creating integrated partnerships to leverage funding and reduce the threat of catastrophic forest fires, protecting watershed health.

The project aims to reduce the extent of the spruce beetle infestation, western balsam bark beetle infestation, improve forest resiliency to insect and disease, improve watershed health and aquatic habitat, reduce fuel loading, protect infrastructure, and developed sites, and provide for firefighter and public safety. A significant portion of the impaired forested area is located on steep slopes on Monarch Pass. Historically, it has been too expensive and unsafe to treat these steep slopes. This project is geared toward solving these issues by introducing new technology and equipment to the State

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of Colorado that can safely and effectively treat steep slopes at a significantly reduced cost and with little environmental disturbance.

The project will provide a demonstration of new technologies that are needed in the State of Colorado to address forest and watershed health issues. Specifically, this project offers a solution to reduce fuel loading on steep slopes which provide our water supply and surround our most precious water resource infrastructure. Bringing this new technology to Colorado will not only increase treatment for some of our most critical forested areas but could also assist in the development of expanding the logging industry in local areas. The project brings together a diverse group of stakeholders and funding sources that will continue to work together on forest and watershed health projects across the Basin.

We, the Upper Arkansas Water Conservancy District, are pleased to commit \$48,000 as matching funds towards the Monarch Pass Forest and Watershed Health Project and recognize the value of collaboration on a project of such significance.

Sincerely,



Chelsey R. Nutter  
Projects Manager



## **Chaffee County Board of Commissioners**

P.O. Box 699/104 Crestone Ave.  
Salida, CO 81201  
719.539.2218/[www.chaffeecounty.org](http://www.chaffeecounty.org)

July 17, 2018

Upper Arkansas Water Conservancy District  
P.O. Box 1090  
Salida, CO 81201

Re: Letter of Support for the Monarch Pass Forest  
and Watershed Health Project

Dear UAWCD:

We are excited to support the proposed Monarch Pass Forest and Watershed Health Project for Chaffee County! The Monarch Pass Forest and Watershed Health Project is a collaborative effort to address extreme forest degradation in the Upper Arkansas Basin and will lead as an example by utilizing new fuel reduction techniques, promoting industry, and creating integrated partnerships to leverage funding and reduce the threat of catastrophic forest fires, protecting watershed health.

The project aims to reduce the extent of the spruce beetle infestation, western balsam bark beetle infestation, improve forest resiliency to insect and disease, improve watershed health and aquatic habitat, reduce fuel loading, protect infrastructure, and developed sites, and provide for firefighter and public safety. A significant portion of the impaired forested area is located on steep slopes on Monarch Pass. Historically, it has been too expensive and unsafe to treat these steep slopes. This project is geared toward solving these issues by introducing new technology and equipment to the State of Colorado that can safely and effectively treat steep slopes at a significantly reduced cost and with little environmental disturbance.

The project will provide a demonstration of new technologies that are needed in the State of Colorado to address forest and watershed health issues. Specifically, this project offers a solution to reduce fuel loading on steep slopes which provide our water supply and surround our most precious water resource infrastructure. Bringing this new technology to Colorado will not only increase treatment for some of our most critical forested areas but could also assist in the development of expanding the logging industry in local areas. The project brings together a diverse group of stakeholders and funding sources that will continue to work together on forest and watershed health projects across the Basin.

Working with Monarch Ski Area to coordinate the logging mitigation project as it relates to the steep slopes in the area will also provide benefits to this proposal.

It is our understanding that as part of this project we have been asked to support a local cash match with our requested share of the local match of \$ 201,869 being \$ 48,000. We are in favor of supporting this cash match and will make the funds available when requested by you.

Thank you for taking steps to address the goal of improving forest resiliency for Chaffee County and we are committed to this type of collaborative effort!

Sincerely,

CHAFFEE COUNTY BOARD OF COMMISSIONERS



Dave Potts



Greg Felt



Keith Baker



07/23/18

Ben Wade  
Colorado Water Conservation Board  
1313 Sherman Street, Room 718  
Denver, CO 80203

RE: Letter of Support/ Matching Commitment – Monarch Pass Forest and Watershed Health Project

Dear Mr. Wade:

We appreciate the opportunity to support the Monarch Pass Forest and Watershed Health Project. The Monarch Pass Forest and Watershed Health Project is a collaborative effort to address extreme forest degradation in the Upper Arkansas Basin and will lead as an example by utilizing new fuel reduction techniques, promoting industry, and creating integrated partnerships to leverage funding and reduce the threat of catastrophic forest fires, protecting watershed health.

The project aims to reduce the extent of the spruce beetle infestation, western balsam bark beetle infestation, improve forest resiliency to insect and disease, improve watershed health and aquatic habitat, reduce fuel loading, protect infrastructure, and developed sites, and provide for firefighter and public safety. A significant portion of the impaired forested area is located on steep slopes on Monarch Pass. Historically, it has been too expensive and unsafe to treat these steep slopes. This project is geared toward solving these issues by introducing new technology and equipment to the State of Colorado that can safely and effectively treat steep slopes at a significantly reduced cost and with little environmental disturbance.

The project will provide a demonstration of new technologies that are needed in the State of Colorado to address forest and watershed health issues. Specifically, this project offers a solution to reduce fuel loading on steep slopes which provide our water supply and surround our most precious water resource infrastructure. Bringing this new technology to Colorado will not only increase treatment for some of our most critical forested areas but could also assist in the development of expanding the logging industry in local areas. The project brings together a diverse group of stakeholders and funding sources that will continue to work together on forest and watershed health projects across the Basin.

We, the City of Salida, are pleased to commit \$20,869.00 as matching funds towards the Monarch Pass Forest and Watershed Health Project and recognize the value of collaboration on a project of such significance.

Sincerely,

A handwritten signature in black ink, appearing to be 'P.T. Wood', with a long horizontal flourish extending to the right.

Mayor P.T. Wood





## Colorado Springs Utilities

*It's how we're all connected*

July 27, 2018

Ben Wade  
Colorado Water Conservation Board  
1313 Sherman Street, Room 718  
Denver, CO 80203

RE: Letter of Support and Funding Commitment for the Monarch Pass Forest and Watershed Health Project

Dear  ~~Mr. Wade~~:

Colorado Springs Utilities is pleased to support the Monarch Pass Forest and Watershed Health Project. This project is a great example of a collaborative effort to improve forest health in the Upper Arkansas River Basin, demonstrate the use of new fuel reduction techniques and equipment within Colorado, and promote the forest product industry within the region. By creating an integrated partnership to leverage multiple funding sources, this project will help reduce the threat of catastrophic wildfire in this region of the Upper Arkansas River Basin and protect watershed health at a meaningful landscape scale.

Specifically, the project aims to reduce the extent of forest disease and insect infestation within the San Isabel Forest, and will also help improve aquatic habitat, reduce forest fuel loads, protect important public and private infrastructure, and provide for firefighter and public safety.

Of significant interest to Colorado Springs Utilities, a large portion of the project will be conducted on steep slopes (~30%-60%) on Monarch Pass. Typically, forest management projects on such extreme terrain have been prohibitively expensive and unsafe. This project will demonstrate a potential solution to this limitation by using a new type of equipment within Colorado that can safely and cost-effectively treat steep slopes, while also limiting environmental impacts such as soil compaction and erosion.

As such, this project will provide an important demonstration of new technologies needed in Colorado to help address forest and watershed health issues, and help mitigate the likelihood, intensity and post-fire impacts of wildfire within our state. Specifically important to water providers, this project offers a potential solution to reduce forest fuel loads on steep slopes adjacent to precious water supplies and critical water infrastructure. Previous wildfire risk assessments show over 20,000 acres of steep slope forests within priority watersheds within the Upper Arkansas River Basin alone. (See attached map.)

For these reasons, we're pleased to contribute \$30,000 of matching funds for the Monarch Pass Forest and Watershed Health Project, and appreciate CWCB's supports for a project of this importance.

Sincerely,



Mark Shea  
Watershed Planning Supervisor  
Colorado Springs Utilities

1521 South Hancock Expressway  
P.O. Box 1103, Mail Code 1825  
Colorado Springs, CO 80947-1825

July 30, 2018

Colorado Water Conservation Board  
Attn: Ben Wade  
1313 Sherman Street, Room 718  
Denver, CO 80203

**Re: Letter of Support/Financial Commitment – Monarch Pass Forest and Watershed Health Project**

Dear Mr. Wade,

The Town of Poncha Springs would like to express its support of the Monarch Pass Forest and Watershed Health Project with this letter; as well as, a \$10,000 financial commitment in the coming years. The Town recognizes the value of collaboration and importance of this project.

The proposed location of the innovative process is directly upstream of the Town's water supply and is situated in our Source Water Protection Area. The accelerating degradation of the forest over Monarch Pass due to beetle kill has become increasingly visible in just the last few years. Visually, as you drive west from Poncha Springs up the pass the vast number of dead trees is both sad and terrifying. A project of this nature is imperative, and should it come to fruition, would provide an invaluable example of what can and needs to be done as fuel loads continue to increase in direct vicinity of the Town, it's source water, and water infrastructure. The successes can also be translated statewide as other communities realize what can be accomplished when multiple stakeholders and entities work together to make such a project possible.

The Town of Poncha Springs is glad to support the application both with this letter and in the form of a financial commitment, unanimously approved by the Board of Trustees. Your consideration of this application is greatly appreciated.

Sincerely,



Ben Scanga

Mayor, Town of Poncha Springs



Jason Willis, P.E. – CO AML Program Manager  
128 East 1<sup>st</sup> Street, Salida, CO 81201  
[jwillis@tu.org](mailto:jwillis@tu.org) – (719) 221-0411

July 30, 2018

RE: Letter of support/matching commitment – Monarch Pass Forest and Watershed Health Project

Ben Wade  
Colorado Water Conservation Board  
1313 Sherman Street, Room 718  
Denver, CO 80203

Dear Mr. Wade,

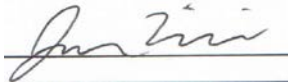
We appreciate the opportunity to support and be a part of the Monarch Pass Forest and Watershed Health Project. This project is a collaborative effort to address extreme forest degradation in the Upper Arkansas Basin and will lead as an example by utilizing new fuel reduction techniques, promoting industry, and creating integrated partnerships to leverage funding and reduce the threat of catastrophic forest fires. These efforts will also have a reciprocal effect on protecting watershed health and water quality for downstream segments of the South Arkansas River, which is an important goal of Trout Unlimited Inc (TU).

The project aims to reduce the extent of the spruce beetle infestation, western balsam bark beetle infestation, improve forest resiliency to insect and disease, improve watershed health and aquatic habitat, reduce fuel loading, protect infrastructure, and provide for firefighter and public safety. A significant portion of the impaired forested area is located on steep slopes on Monarch Pass. Historically, it has been too expensive and unsafe to treat these steep slopes. This project is geared toward solving these issues by introducing new technology and equipment to the State of Colorado that can safely and effectively treat steep slopes at a significantly reduced cost and with little environmental disturbance. In addition to the innovative fuel reduction techniques, reclamation of an abandoned gravel mine will also improve watershed health through re-vegetation techniques that will reduce sediment loading to downstream sources. This sediment reduction will reduce O&M of receiving ponds, while promoting a long-term solution to the barren slopes that currently exist on Monarch Pass.

As one of the leading cold-water conservation organizations, TU strives to protect, restore, reconnect, and sustain our nation's waterways. Since TU was founded in 1959, on-the-ground restoration of streams, watersheds, and fisheries has been our hallmark. TU has been supporting project work across Colorado since the early 2000's. Specifically, TU has completed reclamation projects in Saguache, Lake, Clear Creek, Chaffee, Summit, and Boulder Counties. Being locally located in Salida, TU is excited about the opportunity to work with UAWCD, ARWC, USFS, and other partners on this project. The project brings together a diverse group of stakeholders and funding sources that will be utilized to improve forest and watershed health projects across the Basin. In a time where increasing population and infrastructure needs pose challenges to future generations, water quality/quantity projects like this one will become even more important for long-term sustainability.

Trout Unlimited Inc. is pleased to commit \$13,000 as matching funds towards the Monarch Pass Forest and Watershed Health Project and recognize the value of collaboration on a project of such significance. TU fully supports this project, which aligns with our goals to protect the nation's cold-water resources.

Best Regards,

A handwritten signature in dark ink, appearing to read "Jason Willis", is written over a horizontal line.

Jason Willis, P.E.  
CO AML Program Manager



July 25, 2018

Mr. Ben Wade  
Colorado Water Conservation Board  
1313 Sherman Street, Room 718  
Denver, CO 80203

Dear Mr. Wade:

The Central Colorado Conservancy is in full support and a participating partner in the Monarch Pass Forest and Watershed Health Project. This collaborative effort will address forest degradation in the Upper Arkansas Watershed, leading to new fuel reduction techniques with possible statewide application. The project will leverage partnerships helping to foster local business and bring needed funding to reduce the risk of catastrophic wildfire, therefore protecting watershed health, public water supply and infrastructure, and outdoor recreation.

Overall, the project will improve forest resiliency by reducing the extent of spruce beetle and western balsam bark beetle infestations. This will help reduce fuel loads and create a healthier forest ecosystem. Such a system will have more resilience to wildfire and will create an environment for better managing any future fires, resulting in improved watershed health. Much of the insect/disease impacted forest in the Upper Arkansas Watershed occurs on steep slopes, traditionally difficult, dangerous, and expensive to treat. The Monarch Pass Forest and Watershed Health Project will create a statewide model to deal with these issues by utilizing new technology and equipment that can safely and effectively treat steep slopes at a lower overall cost while minimizing ecological disturbance.

The Monarch Pass Forest and Watershed Health Project is an ideal model project demonstrating new technology, collaborative partnerships, and innovative thinking to solve complex issues related to our forests and watersheds. The Central Colorado Conservancy is pleased to assist in this project by helping with an associated old quarry restoration site, reducing sediment runoff into the South Arkansas River and providing interpretative educational opportunities for outdoor recreationists related to forest and watershed health. We recognize the value of this project and strongly support the work of the Upper Arkansas Water Conservancy District in bringing together a diverse array of stakeholders to deal with a pressing environmental issue in the upper watershed.

The Central Colorado Conservancy is hopeful that the Colorado Water Conservation Board will fund this project. We feel this project has exceptional merit not only for Central Colorado but the entire State. Thank you for considering this request.

Sincerely,

A handwritten signature in dark ink, appearing to read 'AJ Mackie', with a stylized, flowing script.

Andrew J. Mackie  
Executive Director