

**Water Supply Reserve Fund – Grant and Loan Program**  
**Water Activity Summary Sheet**  
**July 15, 2020**  
**Agenda Item 16(a)**

**Applicants & Grantee:** Trout Unlimited

**Water Activity Name:** Boles and Manny Ditch Infrastructure Improvement Project

**Water Activity Purpose:** Ag & Env/Study & Implementation

**County:** Delta

**Drainage Basin:** Gunnison

**Water Source:** Uncompahgre River

**Amount Requested:** \$33,500 Gunnison Basin Account

**Matching Funds:** Applicant & 3<sup>rd</sup> Party Match (cash & in-kind) = \$25,350  
• 76% of the Basin Account request (meets 25% min)

<b>Staff Recommendation:</b>
Staff recommends approval of up to \$33,500 from the Gunnison Basin Account to help fund the project titled: Boles and Manny Ditch Infrastructure Improvement Project.

**Water Activity Summary:** WSRF grant funds, if approved, will assist Trout Unlimited and the Boles and Manny Ditch water users address aging infrastructure and deferred maintenance by installing new infrastructure including: in-river diversion weir; headgate; measurement weir; and control structures in the proper locations at the heading of the ditch. This work will include grading and placement of material adjacent to the Uncompahgre River that will promote healthy riparian growth and stabilized banks. Contractors will also spread native seed mix on disturbed areas. These initial improvements will allow water users to access water for all lands under the ditch, which is not now possible. The water users intend to contract with an engineer to complete a ditch-wide assessment, which will guide future improvements including lining, piping and other upgrades related to water efficiency and salinity control.

**Discussion:** This effort will assist the Gunnison Basin Roundtable meet the goals 5, 7 & 8 of their Basin Implementation Plan by: protecting environmental and recreational water uses; encourage beneficial relationship between agricultural and environmental & recreational water uses; and restoring and modernizing infrastructure.

**Issues/Additional Needs:** The applicant must provide all outstanding letters of matching commitment prior to entering into a grant contract with the state, otherwise no issues or additional needs have been identified.

**Eligibility Requirements:** The application meets requirements of all eligibility components: General Eligibility, Entity Eligibility, Water Activity Eligibility, and Eligibility Based on Match Requirements.

**Evaluation Criteria:** n/a

<b>Funding Sources/Match</b>	<b>Cash</b>	<b>In-kind</b>	<b>Total</b>	<b>Status</b>
Trout Unlimited	\$0	\$6,000	\$6,000	Secured
USFWS Partners Program	\$2,500	\$0	\$2,500	Pending
Boles and Manny water users	\$9,000	\$7,850	\$16,850	Pending
<b>Sub-total Matching Funds</b>	<b>\$11,500</b>	<b>\$13,850</b>	<b>\$25,350</b>	
WSRF Gunnison Basin Account	\$33,500	\$0	\$33,500	Secured
<b>Total Project Costs</b>	<b>\$45,000</b>	<b>\$13,850</b>	<b>\$58,850</b>	

**CWCB Project Manager:** Craig Godbout

May 26, 2020

Craig Godbout  
Colorado Water Conservation Board  
1313 Sherman Street  
Denver, CO 80203

Re: Gunnison Basin Roundtable Approval of Boles Manny Diversion Improvement WSRF  
Application

Dear Mr. Godbout,

I am writing on behalf of the Gunnison Basin Roundtable to let you know that the members have approved a request for funding from the Water Supply Reserve Fund for the Boles Manny Diversion Improvement Project. The request was for \$33,500 of Basin funds for a total project cost of \$67,650 to replace a diversion from the Uncompaghre River just above Delta and install a measuring weir. This diversion irrigates approximately 400 acres of farm land south of Delta and has been deteriorating for some time.

Boles Manny serves 10 landowners with 3 decrees, two of which are pre-Compact water rights. Although not mentioned in the BIP, the project is in line with numerous Basin goals including preservation of current uses, improving aging infrastructure, maintaining agricultural use and improving the environment (minimizing the disturbance of the Uncompaghre River as well as reclaiming a wetlands area near the diversion). The project is supported by US Fish and Wildlife funds, Trout Unlimited and the water rights owners.

If you need additional information, please let us know. Thank you very much for your consideration.

Best Regards,

*Kathleen Curry*

Kathleen Curry, Chair  
Gunnison Basin Roundtable  
54542 US Highway 50  
Gunnison, CO 81230  
[kathleencurry@montrose.net](mailto:kathleencurry@montrose.net)  
Cell 970-209-5537  
Home 970-641-0699



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<b>Colorado Water Conservation Board</b>
<b>Water Supply Reserve Fund Grant Application</b>

<b>Instructions</b>
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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

<b>WSRF Submittal Checklist (Required)</b>
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X	I acknowledge this request was recommended for CWCB approval by the sponsoring roundtable.
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>
<b>Application Documents</b>	
X	Exhibit A: Statement of Work <sup>(2)</sup> ( <i>Word – see Template</i> )
X	Exhibit B: Budget & Schedule <sup>(2)</sup> ( <i>Excel Spreadsheet – see Template</i> )
	Letters of Matching and/or Pending 3 <sup>rd</sup> Party Commitments <sup>(2)</sup>
X	Map <sup>(2)</sup>
X	Photos/Drawings/Reports
	Letters of Support
<b>Contracting Documents<sup>(3)</sup></b>	
X	Detailed/Itemized Budget <sup>(3)</sup> ( <i>Excel Spreadsheet – see Template</i> )
X	Certificate of Insurance <sup>(4)</sup> ( <i>General, Auto, &amp; Workers' Comp.</i> )
X	Certificate of Good Standing <sup>(4)</sup>
	W-9 Form <sup>(4)</sup>
	Independent Contractor Form <sup>(4)</sup> ( <i>If applicant is individual, not company/organization</i> )
	Electronic Funds Transfer (ETF) Form <sup>(4)</sup>

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

(2) Required with application if applicable.

(3) Additional documentation providing a Detailed/Itemized Budget maybe required for contracting. Applicants are encouraged to coordinate with the CWCB Project Manager to determine specifics.

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

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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:	March
Desired Notice to Proceed Date:	July, 2020

Water Activity Summary		
Name of Applicant	Trout Unlimited	
Name of Water Activity	Boles and Manny Ditch Infrastructure Improvement Project	
Approving Roundtable(s)	Basin Account Request(s) <sup>(1)</sup>	
Gunnison	\$33,500	
Basin Account Request Subtotal	\$33,500	
Statewide Account Request <sup>(1)</sup>	\$0	
Total WSRF Funds Requested (Basin & Statewide)	\$33,500	
Total Project Costs	\$58,850	

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



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Grantee and Applicant Information	
Name of Grantee(s)	Trout Unlimited
Mailing Address	1777 N. Kent Street Suite 100, Arlington VA 92001
FEIN	38-1612715
Grantee's Organization Contact <sup>(1)</sup>	Cary Denison
Position/Title	Project Manager
Email	cdenison@tu.org
Phone	970-596-3291
Grant Management Contact <sup>(2)</sup>	Danielle Typinski
Position/Title	Grants Compliance Officer
Email	<a href="mailto:dtypinski@tu.org">dtypinski@tu.org</a>
Phone	(703) 284-9429
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).
Trout Unlimited (TU) is the nation's largest coldwater conservation organization with approximately 150,000 volunteers and roughly 277 employees nationwide working to protect, reconnect, restore and sustain America's fisheries. TU's volunteers and their local chapter groups work on a variety of initiatives that meet the unique needs of their watersheds.
TU's focus in the Gunnison Basin is to find win-win solutions to water supply and infrastructure issues by collaborating with water users

Type of Eligible Entity (check one)
<input type="checkbox"/> <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.



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Type of Eligible Entity (check one)	
<input type="checkbox"/>	<b>Public (Districts):</b> authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises
<input type="checkbox"/>	<b>Private Incorporated:</b> mutual ditch companies, homeowners associations, corporations
<input type="checkbox"/>	<b>Private Individuals, Partnerships, and Sole Proprietors:</b> are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
<input type="checkbox"/>	<b>Non-governmental organizations:</b> broadly, any organization that is not part of the government
<input type="checkbox"/>	<b>Covered Entity:</b> as defined in <a href="#">Section 37-60-126 Colorado Revised Statutes</a>

Type of Water Activity (check one)	
<input checked="" type="checkbox"/>	Study
<input checked="" type="checkbox"/>	Implementation

Category of Water Activity (check all that apply)		
<input checked="" type="checkbox"/>	Nonconsumptive (Environmental)	
<input type="checkbox"/>	Nonconsumptive (Recreational)	
<input checked="" type="checkbox"/>	Agricultural	
<input type="checkbox"/>	Municipal/Industrial	
<input type="checkbox"/>	Needs Assessment	
<input type="checkbox"/>	Education & Outreach	
<input type="checkbox"/>	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	Delta
Latitude	38.67743N
Longitude	108.01989W

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



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### Water Activity Overview

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.

The users of the Boles and Manny ditch, located near Delta Colorado, have been addressing aging infrastructure and maintenance issues that has affected the usefulness of the ditch over the past year. The Boles and Manny ditch provides water to 10 users on approximately 400 acres of land. The users wish to build upon recent efforts to improve efficiency and address operational issues. Trout Unlimited, in partnership with the users of the ditch, are applying for grant assistance to assist the users with making necessary upgrades to diversion and water control infrastructure and to analyze the system for future improvements. TU is assisting in the project because the improvements to the infrastructure will reduce impacts on the Uncompahgre river and lead to more efficient use of water. The Boles and Manny is not an incorporated ditch company which makes contracting grant funds difficult.

Specifically, the ditch users wish to construct a diversion from the Uncompahgre River that does not require frequent maintenance and is not a detriment to the health of the river and the riparian lands nearby. The ditch company also plans to install a new headgate structure, measurement weir at the diversion and near the end of the ditch as well as adequate splitter boxes in at least 2 locations.

The water users intend to contract with an engineer to complete a ditch-wide assessment which will guide future improvements including lining, piping and other upgrades related to water efficiency and salinity control.

The ditch company diverts water under irrigation rights adjudicated in 1890, 1914, and 1941. The total amount decreed to the ditch is 17.96cfs

### Measurable Results

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

	New Storage Created (acre-feet)
200	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive
	Existing Storage Preserved or Enhanced (acre-feet)
250	Length of Stream Restored or Protected (linear feet)
200 acre-feet	Efficiency Savings (indicate acre-feet/year OR dollars/year)
1	Area of Restored or Preserved Habitat (acres)
	Length of Pipe/Canal Built or Improved
	Other Explain:

### Water Activity Justification

Provide a description of how this water activity supports the goals of [Colorado's Water Plan](#), the most





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### Water Activity Justification

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](#)).

This infrastructure improvement project is being undertaken in large part to address multiple needs including those of neighboring water users and the environment. On page 4 of the first chapter of the water plan, the need for – “implementing projects and methods that take into account potential multiple beneficiaries, potential multiple uses, and the effects on river systems on which all Coloradans rely” is addressed.

By implementing this project, the ditch users, with help from the State will be addressing what the Water Plan refers to as one of the key Values which is - A strong environment that includes healthy watersheds, rivers and streams, and wildlife. (Chapter 1 page 6 WP)

The concept of protecting agriculture along with the environment is discussed on page 18 of Section 6.2 – Water Supply Management. This project addresses that common concept by assisting in protecting senior water rights while reducing impacts on the environment. By completing the structural improvements and planning, the ditch company and partners will ensure that all lands under the ditch will have access to water which is not now the case.

The goal of promoting “restoration, recovery, sustainability, and resiliency of endangered, threatened, and imperiled aquatic- and riparian-dependent species and plant communities” is listed on page one of Section 6.6 of the Water Plan. While the primary goal of this project is to restore agricultural irrigation infrastructure it will also meet the environmental goals listed by the Water Plan.

This project will help achieve the following basin goals listed on page 28 of the BIP:

The primary goal is to protect existing water uses this will be achieved by improving the infrastructure necessary to divert, measure and control water. The Boles and Manny Ditch was originally put into use in 1881 and was adjudicated in 1890 and has been used since that time.

The project will also support the second goal of discouraging conversion of productive agricultural land to other uses by ensuring that the lands under the ditch can easily access the amount of water they need to produce crops.

By improving the efficiency along with the diversion structure and reclaiming the disturbed lands around the diversion, the project will meet goal 5 – protecting environmental and recreational water uses, as well as goal 7 – encourage beneficial relationship between agricultural and environmental & recreational water uses. There are populations of bluehead sucker, flannelmouth sucker, and roundtail Chub, the species commonly referred to as the “three species” which are listed by US Fish and Wildlife service as species of special concern, in the Uncompahgre near Delta as well as resident populations of bluehead suckers in the Uncompahgre upstream from the project site. It can be inferred that these important native fish rely on this portion of the river and will benefit from efficiency and restoration practices.

Goal 8 of the BIP will be supported by restoring and modernizing the infrastructure along the ditch. Some of the lands around and under the ditch have been altered by development which has changed how the ditch can and should be operated. By investing in improved control structures, pipe or lining the



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### Water Activity Justification

ditch company can continue to provide water to those users who are still irrigating without creating conflict.

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

### 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)
US Fish and Wildlife Partners Program	\$2,500 (cash)
Trout Unlimited	\$6,000 (in-kind)
Boles & Manny water users	\$9,000 (cash)
Boles & Manny water users	\$7,850 (in-kind)
Total Match	\$25,350
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):



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Matching Requirements: Statewide Account Requests	
Total Match	\$
If you requested a Waiver to the Statewide Account matching, indicate % you wish waived. (Max 50% reduction of requirement).	

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.
None

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			
Grant Name	Agreement Number	Amount	Total Grant Amount
Innovative Irrigation Efficiency for Mountain Meadows	not executed yet	\$54,048	\$112,908
Octate Properties Channel and Irrigation Improvement	not executed yet	\$11,589	\$141,589
Cimmaron Canal Diversion Gate Replacement/Water Mgt. Plan	POGG1 2020-2130	\$18,918	\$48,418
Cimmaron Canal Diversion Gate Replacement/Water Mgt. Plan	not executed yet	\$11,500	



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Previous CWCB Grants			
Blue River Integrated Water Mgt. Plan	CTGG12020-032	\$126,819	<b>\$253,639</b>
Blue River Integrated Water Mgt. Plan	CTGG12020-032	\$30,000	
Blue River Integrated Water Mgt. Plan	CTGG12020-032	\$16,000	
Blue River Integrated Water Mgt. Plan	CTGG12020-032	\$17,110	
Monarch Pass Gravel Pit Reclamation	not executed yet	\$77,389	
Tomichi Creek Flow Restoration	CTGG1 2018-902	\$75,000	
Tomichi Creek Flow Restoration-WSRF Grant	CTGG1 2018-901	\$34,500	
Colorado Abrams Creek Cutthroat	CTGG1 2018-298	\$364,711	<b>\$1,341,650</b>
Ware Hinds Fish Bypass	POGG1 2017-0749	\$63,500	<b>\$174,930</b>
Irrigators in Kremmling	CTGG1 2017-0667	\$465,400	
Windy Gap Reservoir Bypass	POGG1 2016-0900	\$30,000	
Windy Gap Reservoir Bypass Project	CTGG1 2019-2233	\$325,237	<b>\$2,129,147</b>
San Miguel River Stream Management Plan Pilot	POGG1 2016-0800	\$96,413	<b>\$128,551</b>
Kerber Creek Restoration	POGG1 2015-0286	\$30,000	
Wilbur Ditch Diversion Improvement Project	POGG1 2019-2930	\$20,500	\$50,500
River Ranch Irrigation Diversion	CTGG1 2015-3313	\$113,000	<b>\$183,000</b>
Redburn Ranch Diversion Dam	CTGG1 2015-2791	\$148,500	
W-Mountain Ranch Restoration	POGG1 2016-0610	\$15,000	
South Arkansas River Restoration	POGG1 2015-0175	\$10,000	
Upper Ohio Creek Flow Restoration	POGG1 2015-0161	\$6,000	

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.
N/A



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<b>Colorado Water Conservation Board</b>	
<b>Water Supply Reserve Fund</b>	
<b><u>Exhibit A - Statement of Work</u></b>	
<b>Date:</b>	6/25/2020
<b>Water Activity Name:</b>	Boles and Manny Ditch Infrastructure Improvement Project
<b>Grant Recipient:</b>	Trout Unlimited
<b>Funding Source:</b>	CWCB WSRF- Gunnison Basin
<b>Water Activity Overview:</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>Over the past year, the water users on the Boles and Manny ditch have been addressing issues related to aging infrastructure and deferred maintenance including installation of a measurement weir and reconstruction of the diversion. These efforts have revealed the need for additional analysis and structural improvements that the water users cannot afford. The structural improvements needed are; a low profile in-river diversion, a new diversion control structure and pipe, water control devices, control boxes and pipe, and tail-water measurement. These initial improvements will allow water users to access water for all lands under the ditch which is not now possible.</p> <p>Additionally, the water users intend to use this project to complete a needs and infrastructure analysis that will guide future conservation and water management projects.</p> <p>The Boles and Manny water users have been working with Trout Unlimited to make sure these efforts align with conservation goals and mitigate impacts to the Uncompahgre River. TU will be the recipient of the grant funds.</p>	
<b>Objectives:</b> (List the objectives of the project)	
<ol style="list-style-type: none"><li>1. Protect water rights under the ditch including pre-compact rights</li><li>2. Provide access to irrigation water for all users under the ditch</li><li>3. Install a diversion structure that reduces impacts to the Uncompahgre river, fish and wildlife, and surrounding riparian areas.</li><li>4. Install measurement and control structures that reduce waste, improve access, and inform water management decisions.</li><li>5. Conserve water by reducing tail or waste water flows.</li><li>6. Create an improved understanding of the connection with the Seepage Feeder Ditch and other inflow.</li><li>7. Create plan for future infrastructure and management improvements.</li></ol>	



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Tasks
Provide a detailed description of each task using the following format:
<b><u>Task 1 –Engineering Consultant Selection</u></b>
Description of Task:
Water users under the ditch, with assistance from partners, will hire an engineer familiar with irrigation and agriculture to assess the ditch system.
Method/Procedure:
Boles and Manny users will interview irrigation engineers to find an engineer of firm who they feel can meet project objectives.
Grantee Deliverable:
Grantee expects to sign a contract with an engineer who can provide guidance on infrastructure design and future repairs.
CWCB Deliverable:
A description of the selection process along with description of scope of work for engineer.

Tasks
Provide a detailed description of each task using the following format:
<b><u>Task 2 – Construction</u></b>
Description of Task:
In this task, the water users of the Boles & Manny ditch with assistance from partners will install the infrastructure and materials necessary to divert and control water from the river, deliver water to users, measure tail waters, and reclaim diversion area.
Method/Procedure:
With heavy equipment contractors and assistance from partners, the Boles and Manny water users will install the infrastructure including in-river diversion weir, headgate, measurement weir, and control structures in the proper locations at the heading of the ditch. This work will include grading and placement of material adjacent to the Uncompahgre river that will promote healthy riparian growth and stabilized banks. Contractors will also spread native seed mix on disturbed areas.



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Tasks
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
Infrastructure installed to meet project objectives.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
Description of the process accompanied by photos of installed infrastructure as well as a description of any setbacks that were experienced.

Tasks
Provide a detailed description of each task using the following format:
<b><u>Task 3 – Irrigation System Analysis</u></b>
Description of Task:
In this task, TU along with the users of the Boles and Manny Ditch, will work with the selected engineer to evaluate diversion control and measurement need as to outline future projects that could increase efficiency, control salinity, and improve water management.
Method/Procedure:
The engineer will first evaluate needs for diversion measurement and control along with preliminary designs. Then the engineer will evaluate crop demands, overlap with other water sources, operations costs and issues, and preliminary salinity contribution.
Grantee Deliverable:
The engineer will provide suggestions and design assistance on the diversion structures and measurement weir and will provide a list of recommendations for future improvements.
CWCB Deliverable:
The process of analysis will be summarized and provided to the CWCB including recommendations.

Tasks
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Tasks
Provide a detailed description of each task using the following format:
<b><u>Task 4 – Grant Administration</u></b>
Description of Task:
In this task, TU will administer grant funds and provide accounting, oversight and reporting for the project.
Method/Procedure:
TU will process invoices, record match efforts and contributions, and write reports.
Grantee Deliverable:
Compliance with requirements of the CWCB grant and recording of the process to inform future projects.
CWCB Deliverable:
This task will provide the CWCB with reports on progress of the project including accounting of grant expenditures. Reports will also provide photos of project, summaries of engineering report, and valuable lessons learned during the project.

Budget and Schedule
<b><u>Exhibit B - Budget and Schedule:</u></b> This Statement of Work shall be accompanied by a combined <a href="#">Budget and Schedule</a> that reflects the Tasks identified in the Statement of Work and shall be submitted to CWCB in <u>excel format</u> . A separate <u>excel formatted</u> Budget is required for engineering costs to include rate and unit costs.

Reporting Requirements
<b>Progress Reports:</b> The grantee shall provide the CWCB a progress report every 6 months, beginning from the date of issuance of a purchase order, or the execution of a contract. The progress report shall describe the status 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. The CWCB may withhold reimbursement until satisfactory progress reports have been submitted.
<b>Final Report:</b> At completion of the project, the grantee shall provide the CWCB a Final Report on the grantee's letterhead that: <ul style="list-style-type: none"><li>• Summarizes the project and how the project was completed.</li><li>• Describes any obstacles encountered, and how these obstacles were overcome.</li><li>• Confirms that all matching commitments have been fulfilled.</li><li>• Includes photographs, summaries of meetings and engineering reports/designs.</li></ul>
Payments





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### Reporting Requirements

Payment will be made based on actual expenditures, must include invoices for all work completed and must be on grantee's letterhead. The request for payment must include a description of the work accomplished by task, an estimate of the percent completion for individual tasks and the entire Project in relation to the percentage of budget spent, identification of any major issues, and proposed or implemented corrective actions.

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

### Performance Requirements

Performance measures for this contract shall include the following:

(a) Performance standards and evaluation: Grantee will produce detailed deliverables for each task as specified. Grantee shall maintain receipts for all project expenses and documentation of the minimum in-kind contributions (if applicable) per the budget in Exhibit B. Per Grant Guidelines, the CWCB will pay out the last 10% of the budget when the final deliverable is completed to the satisfaction of CWCB staff. Once the final deliverable has been accepted, and final payment has been issued, the purchase order or grant will be closed without any further payment.

(b) Accountability: Per the Grant Guidelines full documentation of project progress must be submitted with each invoice for reimbursement. Grantee must confirm that all grant conditions have been complied with on each invoice. In addition, per the Grant Guidelines, Progress Reports must be submitted at least once every 6 months. A Final Report must be submitted and approved before final project payment.

(c) Monitoring Requirements: Grantee is responsible for ongoing monitoring of project progress per Exhibit A. Progress shall be detailed in each invoice and in each Progress Report, as detailed above. Additional inspections or field consultations will be arranged as may be necessary.

(d) Noncompliance Resolution: Payment will be withheld if grantee is not current on all grant conditions. Flagrant disregard for grant conditions will result in a stop work order and cancellation of the Grant Agreement.

**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: 6/25/2020****Water Activity Name: Boles and Manny Ditch Infrastructure Improvement Project****Grantee Name: Trout Unlimited**

<u>Task No.</u> <sup>(1)</sup>	<u>Description</u>	<u>Start Date</u> <sup>(2)</sup>	<u>End Date</u>	<u>Matching Funds</u> (cash & in-kind) <sup>(3)</sup>	<u>WSRF Funds</u> (Basin & Statewide combined) <sup>(3)</sup>	<u>Total</u>
1	Engineering Consultant Selection	9/1/2020	9/1/2023	\$850		\$850
2	Construction	9/1/2020	9/1/2023	\$18,500	\$23,320	\$41,820
3	Irrigation System Analysis	9/1/2020	9/1/2023	\$4,000	\$7,500	\$11,500
4	Grant Administration	9/1/2020	9/1/2023	\$2,000	\$2,680	\$4,680
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
<b>Total</b>				\$25,350	\$33,500	\$58,850

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

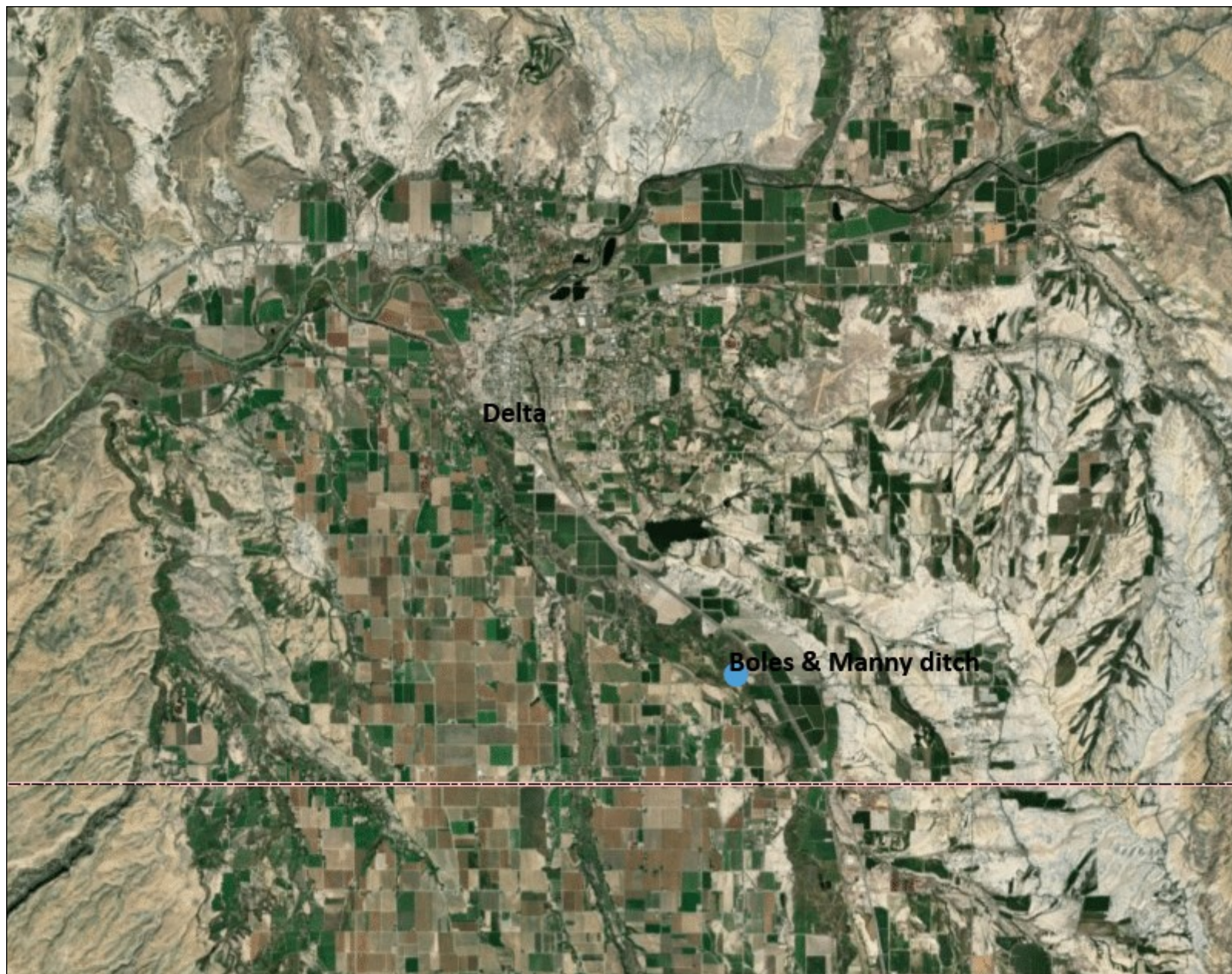
• Additional documentation providing a Detailed/Itemized Budget may be required for contracting. Applicants are encouraged to coordinate with the CWCB Project Manager to determine specifics.

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



## Boles & Manny Ditch



### Legend

 County

### Location



### Notes

3.54 0 1.77 3.54 Miles

1: 112,257



*This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.*

Date Prepared: 1/31/2020 3:31:02 PM



Eroded bank below diversion structure



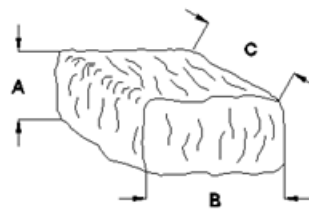
Diversion structure



Example of diversion weir design and rock requirement

#### Method B (Input Known Rock Size)

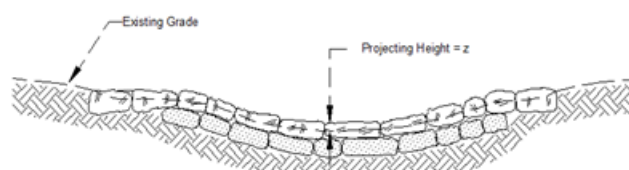
User Input Rock Size		
B =	1.90	ft
A =	1.27	ft
C =	2.53	ft



#### Step 5. Boulder Properties

Boulder Density		
User input	$\rho_b =$	165.00 lbs/ft <sup>3</sup>

Projecting Height		
User input	$\Delta z =$	0.50 ft



Damaged ditch and blown out box



Push-up dam

