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## Colorado Water Conservation Board

### Water Plan Grant Application

#### Instructions

To receive funding for a Water Plan Grant, applicant must demonstrate how the project, activity, or process (collectively referred to as “project”) funded by the CWCB will help meet the measurable objectives and critical actions in the Water Plan. Grant guidelines are available on the CWCB website.

If you have questions, please contact CWCB at (303) 866-3441 or email the following staff to assist you with applications in the following areas:

Supply and Demand Gap Projects	Gregory.Johnson@state.co.us
Water Storage Projects	Anna.Mauss@state.co.us
Conservation, Land Use Planning	Kevin.Reidy@state.co.us
Engagement & Innovation Activities	Mara.MacKillop@state.co.us
Agricultural Projects	Brent.Newman@state.co.us
Environmental & Recreation Projects	Linda.Bassi@state.co.us

Applicants interested in submitting an ‘Intent to Apply’ in the future are encouraged to check here ☐ and fill in all sections with the best information available at the time. Exhibits may be excluded.

This “Intent to Apply” will help CWCB prioritize Projects that are not ready for fully completed Water Plan Grant Application due to the initial timeframe and required deadlines.

**FINAL SUBMISSION:** Submit all application materials to [waterplan.grants@state.co.us](mailto:waterplan.grants@state.co.us) in the original file formats [Application (word); Statement of Work (word); Budget/Schedule (excel)]. Please do not combine documents.

#### Water Project Summary

Name of Applicant	Jesse Kruthaupt, Trout Unlimited
Name of Water Project	Lower Tomichi Water Conservation Project
CWP Grant Request Amount	\$ 150,000
Other Funding Sources <u>Will request SCPP</u>	\$ 55,000
Other Funding Sources <u>Partner Funding</u>	\$ 70,000
Applicant Funding Contribution – TU	\$ 25,000
Total Project Cost	\$ 300,000



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Applicant & Grantee Information	
Name of Grantee(s)	Trout Unlimited
Mailing Address	1777 N. Kent Street, Suite 100 Arlington, VA 22209
FEIN	38-1612715
Organization Contact	Danielle Typinski
Position/Title	Grant Compliance Coordinator
Email	dtypinski@tu.org
Phone	(703) 284-9429
Grant Management Contact	<u>Jesse Kruthaupt</u>
Position/Title	Upper Gunnison Project Specialist
Email	<u><a href="mailto:Jkruthaupt@tu.org">Jkruthaupt@tu.org</a></u>
Phone	(970)-209-0976
Name of Applicant (if different than grantee)	Trout Unlimited
Mailing Address	1777 N. Kent Street, Suite 100 Arlington, VA 22209
Position/Title	
Email	
Phone	

Description of Grantee/Applicant
Provide a brief description of the grantee's organization (100 words or less).
<p>Trout Unlimited (TU), the nation's largest coldwater conservation organization, representing more than 150,000 members and volunteers nationwide, including 10,000 in Colorado, has a program in the Upper Gunnison Basin focused on water use solutions that will benefit agricultural operations as well as protect and improve cold water trout habitat. Jesse Kruthaupt works for Trout Unlimited as the upper Gunnison project coordinator.</p>

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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.
	<b>Private Incorporated:</b> Mutual ditch companies, homeowners associations, corporations.
	<b>Private Individuals, Partnerships, and Sole Proprietors:</b> Private parties may be eligible for funding.
x	<b>Non-governmental organizations (NGO):</b> Organization that is not part of the government and is non-profit in nature.
	<b>Covered Entity:</b> As defined in <a href="#">Section 37-60-126 Colorado Revised Statutes</a> .

Type of Water Project (check all that apply)	
x	Study
	Construction
	Identified Projects and Processes (IPP)
x	Other – water conservation program

Category of Water Project (check all that apply and include relevant tasks)	
x	Supply and Demand Gap - Multi-beneficial projects and those projects identified in basin implementation plans to address the water supply and demand gap. <i>Applicable Exhibit A Task(s):</i>
	Water Storage - Projects that facilitate the development of additional storage, artificial aquifer recharge, and dredging existing reservoirs to restore the reservoirs' full decreed capacity. <i>Applicable Exhibit A Task(s):</i>
x	Conservation and Land Use Planning - Activities and projects that implement long-term strategies for conservation, land use, and drought planning. <i>Applicable Exhibit A Task(s):</i>
	Engagement & Innovation - Activities and projects that support water education, outreach, and innovation efforts. Please fill out the Supplemental Application on the website. <i>Applicable Exhibit A Task(s):</i>
	Agricultural - Projects that provide technical assistance and improve agricultural efficiency. <i>Applicable Exhibit A Task(s):</i>
x	Environmental & Recreation - Projects that promote watershed health, environmental health, and recreation. <i>Applicable Exhibit A Task(s):</i>

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	Other	Explain:
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Location of Water Project	
Please provide the general county and coordinates of the proposed project below in <b>decimal degrees</b> . The Applicant shall also provide, in Exhibit C, a site map if applicable.	
County/Counties	Gunnison, CO
Latitude	38°31'46.57"N
Longitude	106°53'53.06"W

Water Project Overview
<p>Please provide a summary of the proposed water project (200 words or less). Include a description of the project and what the CWP Grant funding will be used for specifically (e.g., studies, permitting process, construction). Provide a description of the water supply source to be utilized or the water body affected by the project, where applicable. 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, and area of habitat improvements, where applicable. If this project addresses multiple purposes or spans multiple basins, please explain.</p> <p>The Applicant shall also provide, in Exhibit A, a detailed Statement of Work, Budget, Other Funding Sources/Amounts and Schedule.</p>

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## Water Project Overview

This agricultural water conservation project proposal is located in the upper Gunnison basin on Tomichi Creek, tributary to the Gunnison River above Blue Mesa Reservoir. Trout Unlimited has helped organize this proposal in coordination with six individual land owners, local water leaders, and The Nature Conservancy. This three-year water conservation project will involve regional coordination to improve environmental and recreational flows through the Tomichi State Wildlife Area, as well as to reduce agricultural shortages below the SWA. The program will also provide an example of how temporary, voluntary, and compensated reduction of consumptive use can be used to reduce local watershed shortages during drought years and protect water users from increasing water demands on the Colorado River.

The lower Tomichi Creek region was chosen as the demonstration site because existing relationships and past coordination will provide a project that is ready for implementation. Trout Unlimited has consulted with water users in the project area but will not seek commitment until funding is available.

This water conservation approach will be transferable to other areas in the upper Gunnison and western Colorado. Documents used for contracting, accounting, verification, and monitoring will be provided as project deliverables to support future innovative water conservation efforts throughout the state.

## Measurable Results

To catalog measurable results achieved with the CWP Grant funds, please provide any of the following values as applicable:

	New Storage Created (acre-feet)
1000	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive
	Existing Storage Preserved or Enhanced (acre-feet)
5 miles	Length of Stream Restored or Protected (linear feet)
	Efficiency Savings (indicate acre-feet/year OR dollars/year)
	Area of Restored or Preserved Habitat (acres)
1000	Quantity of Water Shared through Alternative Transfer Mechanisms
	Number of Coloradans Impacted by Incorporating Water-Saving Actions into Land Use Planning
	Number of Coloradans Impacted by Engagement Activity

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Measurable Results		
	Other	Explain:

### Water Project Justification

Provide a description of how this water project supports the goals of [Colorado's Water Plan](#), the most recent [Statewide Water Supply Initiative](#), and the applicable Roundtable [Basin Implementation Plan](#) and [Education Action Plan](#). 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).

The proposed water project shall be evaluated based upon how well the proposal conforms to Colorado's Water Plan Framework for State of Colorado Support for a Water Project (CWP, Section 9.4, pp. 9-43 to 9-44;)

Participating water rights will reduce irrigation withdraws from the stream during critical times and benefit stream flows, satisfy downstream senior rights and potentially prevent a watershed call. The method for conserving water is temporary, voluntary, and compensated so the participating water right owners will maintain ownership and management of their water rights for existing and future uses. For those reasons this conservation approach will help address the Gunnison BIP Goal 1: Protect Existing Uses; and Goal 2: Discourage the conversion of productive agricultural land to other uses within the context of private property rights (Gunnison BIP, pp 30-31).

This section of Tomichi Creek can experience low flows causing agricultural shortages, increased water temperatures and less than desirable aquatic habitat. Irrigation shortages on Tomichi creek are described in the Gunnison BIP on page 50, Table 13, as being 12,600 acre feet annually. This project will have the potential conserve 1000 acre feet on lower Tomichi Creek during the implementation year and will improve stream flows, angling opportunities thru the Tomichi SWA and help reduce irrigation shortages on lower Tomichi Creek.

The Gunnison BIP also mentions on page 71, that ideal solutions to address environmental and recreational needs while preserving existing agricultural uses include temporary and voluntary instream flow leasing arrangements that sustain flows during critical drought periods. A temporary and voluntary leasing arrangement is exactly the approach proposed for this conservation program.

The Colorado Water Plan Water Plan frequently references collaboration and multiple use projects. In section 6.6, page 6-157, the third goal listed is "Support the development of multipurpose projects and methods that benefit environmental and recreational water needs as well as water needs for communities or agriculture". This project will involve coordination between NGO's, private land owners, and state agencies. It is specifically designed to benefit multiple uses. Four of the use types that will benefit from this project are recreation, tourism, agriculture, and the environment. These four uses are also highlighted as Colorado's Water Values on page 1.6 of the Colorado Water Plan.

This project also addresses many of the goals listed in Section 6.4, Alternative Transfer Methods, including on page 6-115 "Colorado's Water Plan will respect property rights and the contributions of the agricultural industry by maximizing options for alternatives to permanent agricultural dry-up." This project example will be transferable to other areas in the upper Gunnison and western Colorado as an

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### Water Project Justification

alternative to permanent dry up.

Furthermore, the proposed split-season conservation methodology, streamlined contracting, and associated monitoring is also emphasized as “Actions” in Section 6.4, on pages 6-125-126. For example, Action Number 2 states, “Encourage funding grants that focus on implementing on-the-ground ATM projects, data collection, agile administration practices, ATM affordability, basin-specific ATM projects, and infrastructure modernization.”

### Related Studies

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

D. H. Smith, J. E. Brummer, D. E. Temple (2006). "Consumptive Irrigation Water Use in the Upper Gunnison River Basin", Upper Gunnison River Water Conservancy District.

Smith, D. H. (2008). “Consumptive Irrigation Water Use Intermountain Meadows of Colorado”, Colorado Water, Newsletter of the Water Center of Colorado State University, January/February 2008

Colorado Water Bank Feasibility Study, Phase 1 and 2. Completed for the Colorado River Water Conservancy District.

### Previous CWCB Grants, Loans or Other Funding

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; 6) Percentage of other CWCB funding for your overall project.

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Previous CWCB Grants, Loans or Other Funding				
Grant Name	Agreement Number	Amount	Start Date	End Date
Irrigators in Kremmling	CTGG1 2017-0667	\$465,400	11/29/2016	9/30/2018
Redburn Ranch Diversion Dam	CTGG1 2015-2791	\$148,500	1/27/2015	6/1/2018
San Miguel River Stream Management Plan Pilot	POGG1 2016-0800	\$96,413	3/22/2016	6/1/2018
Ware Hinds Fish Bypass	POGG1 2017-0749	\$63,500	2/14/2017	12/31/2018
Windy Gap Reservoir Bypass	POGG1 2016-0900	\$30,000	5/18/2016	1/31/2017
W-Mountain Ranch Restoration	POGG1 2016-0610	\$15,000	1/8/2015	5/31/2017
Kerber Creek Restoration	POGG1 2015-0286	\$30,000	6/10/2015	10/31/2016
River Ranch Irrigation Diversion	CTGG1 2015-3313	\$113,000	6/9/2015	5/31/2016
South Arkansas River Restoration	POGG1 2015-0175	\$10,000	11/14/2014	10/31/2016
Upper Ohio Creek Flow Restoration	POGG1 2015-0161	\$6,000	10/10/2014	12/31/2014

Taxpayer Bill of Rights
<p>The Taxpayer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect your application.</p>
<p>None</p>





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Submittal Checklist	
x	I acknowledge the Grantee will be able to contract with CWCB using the <a href="#">Standard Contract</a> .
Exhibit A	
x	Statement of Work <sup>(1)</sup>
x	Budget & Schedule <sup>(1)</sup>
x	Letters of Matching and/or Pending 3 <sup>rd</sup> Party Commitments <sup>(1)</sup>
Exhibit C	
x	Map (if applicable) <sup>(1)</sup>
	Photos/Drawings/Reports
	Letters of Support (Support letter from Basin Roundtable encouraged)
	Certificate of Insurance (General, Auto, & Workers' Comp.) <sup>(2)</sup>
	Certificate of Good Standing with Colorado Secretary of State <sup>(2)</sup>
	W-9 <sup>(2)</sup>
	Independent Contractor Form <sup>(2)</sup> (If applicant is individual, not company/organization)
Engagement & Innovation Grant Applicants ONLY	
	Engagement & Innovation Supplemental Application <sup>(1)</sup>

(1) Required with application.

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

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Colorado Water Conservation Board	
Water Plan Grant - Exhibit A	

Statement Of Work	
<b>Date:</b>	9/27/2017
<b>Name of Applicant:</b>	Jesse Kruthaupt
<b>Name of Water Project:</b>	Tomichi Water Conservation Program
<b>Funding Source:</b>	CWP implementation grants
<p><b>Water Project Overview:</b> Please provide a summary of the proposed water project (200 words or less). The same summary can be used from Page 5 of the CWP Grant Application.</p> <p>This agricultural water conservation project proposal is located in the upper Gunnison basin on Tomichi Creek, tributary to the Gunnison River above Blue Mesa Reservoir. Trout Unlimited has helped organize this proposal in coordination with six individual land owners, local water leaders, and the Nature Conservancy. This three-year water conservation project will involve regional coordination to improve environmental and recreational flows through the Tomichi State Wildlife Area, as well as to reduce agricultural shortages below the SWA. The program will also provide an example of how temporary, voluntary, and compensated reduction of consumptive use can be used to reduce local watershed shortages during drought years and protect water users from increasing water demands on the Colorado River.</p> <p>The lower Tomichi Creek region was chosen as the demonstration site because existing relationships and past coordination will provide a project that is ready for implementation. Trout Unlimited has consulted with water users in the project area but will not seek commitment until funding is available.</p> <p>This water conservation approach will be transferable to other areas in the upper Gunnison and western Colorado. Documents used for contracting, accounting, verification, and monitoring will be provided as project deliverables to support future innovative water conservation efforts throughout the state.</p>	
<p><b>Objectives:</b> List the objectives of the project.</p>	

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Develop a program that will demonstrate how temporary and coordinated split-season agricultural water conservation can provide the flexibly necessary to sustain robust agriculture and healthy streams in the upper Gunnison Basin.

The primary focus of this proposal will be will to reduce local shortages during drought years. The secondary goal is to provide a conservation program template that will be useful in the future.

Tasks
Provide a detailed description of each project task using the following format:
<b>Task 1 – Raise funding and enroll participants in voluntary conservation program</b>
Description of Task:
<p>Trout Unlimited will raise the money necessary to compensate water users for participation in the program and for their portion of reduced of consumptive use. Once sufficient funding is raised, Trout Unlimited will present water users on lower Tomichi Creek with the program and the opportunity for enrolment. To avoid potential negative impacts, participation will be limited to regionally coordinated split-season fallowing or deficit irrigation. Additionally, we will establish a stakeholder group to review the program.</p> <p><u>Background</u></p> <p>The upper Gunnison basin is unique among the valleys in western Colorado due to its elevation, short growing season, high quality grasses, broad irrigated floodplains, and proximity to Blue Mesa Reservoir. In most cases, irrigation practices in the upper Gunnison Basin mimic natural hydrology because water diverted during spring runoff flows into ditches and is spread throughout the floodplain, thereby recharging the fluvial aquafer. Seepage from the aquafer helps maintain base flows for environmental and other uses later in the season. However, this irrigation practice can be difficult during periods of below average water availability because significant carriage water is needed to effectively saturate the cobble substrate and soil profile.</p> <p>Furthermore, research suggests it can take several years for irrigated mountain meadow grasses in the Upper Gunnison to recover from a full season of fallowing. All these factors influence the effectiveness of agricultural water conservation in this region.</p> <p>This proposed conservation program is designed with the appropriate “side boards” to address common concerns like crop recovery, ground water recharge and release, and the relationship of irrigation practices between property boundaries. This program will be flexible and fine-tuned based on user experiences to</p>

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Tasks
<p>avoid the impacts a severe drought would have on the upper Gunnison community.</p>
<p>Method/Procedure:</p> <p>Outreach material will be developed describing the program and its purpose and will be provided to water users in the project area. Enrollment will be open to parties in the region from March 2018 until June 2018. Trout Unlimited will work individually with interested parties to develop a summary of the irrigated land, irrigation ditches, and the proposed conservation strategy. The summaries will be submitted to UGRWCD General Manager, Division 28 water commissioner, and other stakeholders on the watershed. Conservation strategies will be coordinated between water users with input from agency staff in an effort to avoid negative impacts.</p> <p>Conservation efforts will begin as early as June 25<sup>th</sup>, 2018 and the program will end in October 2021. Implementation of conservation measures will occur during one year in the three year period. Participants will receive a base rate of \$20 per acre to incentivize three year enrollment. Water users will be compensated per acre foot of water conserved during the year conservation actions take place. Implementation of the water conservation program on the chosen year will be contingent on water availability as predicted by the Colorado River Water Forecast Center. Climate criteria for implementation will be developed with water user input and by modeling completed by Wilson Water Group.</p> <p>Trout Unlimited will individually contract with participating water users. The rate for reduced consumptive use will be negotiated and agreed upon the spring prior to any conservation measures taken place. This rate will not exceed \$180 an acre foot.</p>
<p>Grantee Deliverable: Describe the deliverable the grantee expects from this task</p>
<p>Enrollment of 6 property owners and Colorado Parks and Wildlife resulting in 800-1000 acre feet of conserved water and a 5-10% increase in flows through the State Wildlife area during critical low flow periods.</p>
<p>CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task</p>

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Tasks
<ol style="list-style-type: none"> <li>1. Outreach documents for program enrollment</li> <li>2. Summary of conservation plans for participating lands</li> <li>3. TU, water user contracts.</li> </ol>

Tasks
Provide a detailed description of each task using the following format:
<b>Task 2 – Estimate and verify reduced consumptive use and resulting overall impacts</b>
Description of Task:
<p>Trout Unlimited will hire Wilson Water Group and coordinate with water users to appropriately estimate and verify reduction of consumptive use and document the resulting stream flow impacts. This task will also collect and summarize input from participating water users including production estimates and challenges with implementation.</p>
Method/Procedure:
<p><u>Method Procedure</u></p> <p>Trout Unlimited will contract with Wilson Water Group to model how the chosen split-season water conservation strategies will impact water availability through and downstream of the project area during average and dry water year types. Wilson Water Group will also be contracted to model reduced consumptive use for the proposed conservation actions with StateCU software.</p> <p>Trout Unlimited will coordinate with water user's to photo the participating ditch headgate and irrigated field before and after the agreed shutoff date. These will be accompanied by a monthly site visit and report. Soil moisture sensors and an atmometer will be installed to monitor available soil moisture and evaporation in the project area. Measurements will be referenced to Gunnison COAgMet station located 5 miles to the north of the project site to estimate actual vs.</p>

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Tasks
<p>modeled conserved water.</p> <p>Participate summaries will include production estimate for the year participating vs. typical operations (bale count, grazing days, residual forage) and a short survey on participation experience.</p> <p>Trout Unlimited will measure stream flow and temperature at the western end of the Tomichi State Wildlife Area prior to and after the irrigation shut off date. These measurements will be compared to Tomichi at Gunnison USGS gauge located 3 miles downstream. The relationship between these two measurements will illustrate the amount of conserved and water diverted for irrigation use below the project area. Additional site specific monitoring may be included depending on individual contracts and selected conservation strategies.</p>
Grantee Deliverable: Describe the deliverable the grantee expects from this task
Project partners are interested in a better understanding of changes to stream flow and actual conserved water.
CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task
<ol style="list-style-type: none"> <li>1. Verification plan, photos, and reports for each site visit.</li> <li>2. Modeled stream flow through the project area depicting changes resulting from conservation measures during average and dry water years.</li> <li>3. Report summarizing relationship between scenario model runs and actual flow and temperature monitoring during implementation</li> <li>4. Report summarizing participants input and concerns.</li> </ol>

Tasks
Provide a detailed description of each task using the following format:
<b>Task 3 – Secure water right protections</b>
Description of Task:

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Tasks
<p>By using existing legislation (SB 19) water users can participate in this water conservation program without risking abandonment or reduction in historic consumptive use.</p>
<p>Method/Procedure:</p>
<p>The participating water rights will be included in a package application describing the conservation effort. This application will be submitted to the Colorado River District or Colorado Water Conservation Board to request approval as a sponsored water conservation program and provide the water rights the protection of SB 19. The local water commissioner will be provided this application and notified prior to any conservation actions.</p>
<p>Grantee Deliverable: Describe the deliverable the grantee expects from this task</p>
<p>Receive approval as a sponsored conservation program and demonstrate to other irrigators that Senate Bill 19 is a tool available for those willing to take conservation measures.</p>
<p>CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task</p>
<ol style="list-style-type: none"> <li>1. Package application requesting approval as sponsored water conservation program</li> <li>2. Approval letter from sponsoring agency</li> </ol>

Tasks
<p>Provide a detailed description of each task using the following format:</p>
<p><b>Task 4 – Evaluate opportunities to bank conserved water in Aspinall Unit.</b></p>
<p>Description of Task:</p>

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Tasks
<p>This task will outline and evaluate if contracting with the Bureau of Reclamation and storing upper Gunnison conserved water in the Aspinall Unit is a realistic option to protect a wide range of junior water rights in the upper Gunnison Basin during consecutive drought years.</p> <p>The analysis and monitoring in Task 2 will help inform this task by providing a better understanding of actual consumptive use savings potential.</p>
<p>Method/Procedure:</p>
<p>This task would need to be completed in coordination with the Upper Gunnison River Water Conservancy District, the Colorado River Water Conservancy District, the Colorado Division of Water Resources, the Bureau of Reclamation, The Nature Conservancy, Uncompahgre Valley Water Users Association, and other members of the Water Bank Working Group.</p> <p>Trout Unlimited with assistance from the partners listed above will meet with the Bureau of Reclamation and request input on the steps necessary to allow contracting for one year of substitute storage of conserved water in the Aspinall Unit or Taylor Reservoir.</p> <p>We will use BOR recommendations, stream flow monitoring, and consumptive use reduction analysis to evaluate the feasibility of pursuing a permanent arrangement with the BOR. If the evaluation demonstrates that storing conserved water in Blue Mesa is not feasible then this task will be considered completed.</p> <p>If contracting storage water in Blue Mesa is possible partners will further analyze, refine and fund the following methodology. The first priority would be to use upper Gunnison conserved water to offset a Gunnison Tunnel call during back-to-back dry years. If a tunnel call is not expected, the water will be released during Aspinall Spring Operations and flow to Lake Powell.</p>
<p>Grantee Deliverable: Describe the deliverable the grantee expects from this task</p>
<p>Same as below.</p>
<p>CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task</p>
<ol style="list-style-type: none"> <li>1. BOR recommendations on necessary steps to allow contracting of stored water for one year.</li> <li>2. Pilot contracting template with BOR.</li> </ol>



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## Tasks

## Budget and Schedule

This Statement of Work shall be accompanied by a combined Budget and Schedule that reflects the Tasks identified in the Statement of Work and shall be submitted to CWCB in excel format.

## Reporting Requirements

**Progress Reports:** The applicant 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.

**Final Report:** At completion of the project, the applicant shall provide the CWCB a Final Report on the applicant's letterhead that:

- Summarizes the project and how the project was completed.
- Describes any obstacles encountered, and how these obstacles were overcome.
- Confirms that all matching commitments have been fulfilled.
- Includes photographs, summaries of meetings and engineering reports/designs.

The CWCB will withhold disbursement the last 10% of the budget until 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 purchase order or grant will be closed without any further payment.

## Payment

Payment will be made based on actual expenditures and must include invoices for all work completed. 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.

Project costs not covered by this or other grants are the responsibility of the grantee. Project costs that are eligible for CWCB funds will be disbursed at the following percentages: 50% Water Plan Grant funds to 50% matching funds.

Costs incurred prior to the effective date of this contract are not reimbursable. The last 10% of the entire grant will be paid out when the final deliverable has been received. All products, data and information developed as a result of this contract must be provided to CWCB in hard copy and electronic format as part of the project documentation.

## Performance Measures

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### Performance Measures

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 Water Plan Grant Guidelines, the CWCB will pay out the last 10% of the 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 purchase order or grant will be closed without any further payment.
- (b) Accountability: Per Water Plan 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 Water Plan 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.

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**COLORADO**  
Colorado Water  
Conservation Board  
Department of Natural Resources

## Colorado Water Conservation Board

### Water Plan Grant - Exhibit A Budget and Schedule

Date: 10/10/17

Name of Applicant: Trout Unlimited

Name of Water Project: Tomichi Water Conservation Program

Task No.	Task Description	Start Date <sup>(1)</sup>	End Date			Grant Funding Request	Cash Match Funding	In-kind Match Funding	Total
1	Implement Voluntary Conservation program	2/1/2018	2/1/2021	Unit #	Unit cost	\$ 120,000.00	\$ 80,000.00	\$ 11,200.00	\$ 211,200.00
	Landowner program Enrollment payment			1000 acres	\$ 20.00	\$ 20,000.00		\$ -	\$ 20,000.00
	Payments for reduced Consumptive Use			1000 acre ft	\$ 180.00	\$ 100,000.00	\$ 80,000.00	\$ -	\$ 180,000.00
	Program Facilitation, outreach and meetings			100hrs	\$ 40.00			\$ 4,000.00	\$ 4,000.00
	Program contracting			60hrs	\$ 120.00			\$ 7,200.00	\$ 7,200.00
2	Estimate and Verify CU and Impacts	2/1/2018	2/1/2021				\$ 15,150.00	\$ 5,700.00	\$ 20,850.00
	Estimate CU using StateMod			30hrs	\$ 120.00		\$ 3,600.00	\$ -	\$ 3,600.00
	Scenario model of stream flow changes			40hrs	\$ 120.00		\$ 4,800.00	\$ -	\$ 4,800.00
	Soil moisture sensors and install			5	\$ 150.00		\$ 750.00	\$ 2,500.00	\$ 3,250.00
	Engineering actual CU with CoAgMet Refer.			50hrs	\$ 120.00		\$ 6,000.00	\$ -	\$ 6,000.00
	Site and streamflow monitoring/measurements			80hrs	\$ 40.00		\$ -	\$ 3,200.00	\$ 3,200.00
3	Water Rights Protection	5/1/2018	2/1/2021				\$ -	\$ 4,400.00	\$ 4,400.00
	Application assembly and submittal			50hrs	\$ 40.00			\$ 2,000.00	\$ 2,000.00
	Legal Review			20hrs	\$ 120.00			\$ 2,400.00	\$ 2,400.00
4	Evaluate Bank strategies in Blue Mesa	10/1/2018	2/1/2021				\$ -	\$ 19,000.00	\$ 19,000.00
	Legal Analysis			125hrs	\$120.00			\$ 15,000.00	\$ 15,000.00
	Meeting Coordination and Travel							\$ 3,000.00	\$ 3,000.00
	Meeting expense							\$ 1,000.00	\$ 1,000.00
5	Admin and Overhead					\$ 25,000.00			\$ 25,000.00
<b>Total</b>						\$ 145,000.00	\$ 95,150.00	\$ 40,300.00	\$ 280,450.00

(1) Start Date for funding under \$100K, minimum 45 Days from Board Approval; Start Date for funding over \$100K, minimum 90 Days from Board Approval.

·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 grantee enters contract and receives formal NTP if prior to the listed "Start Date".

·The applicant shall provide a progress report every 6 months, beginning from the date of contract execution.

·CWCB will withhold disbursement of the last 10% of the total grant amount until a Final Report is completed to the satisfaction of CWCB staff (2017 CWP Grant Guidelines).

Tomichi Water Conservaiton Budget Breakdown		Cash Match (unconfirmed)	
Discription	CWCB Funds	UGRWCD	SCPP or Private Partners
Task 1. Implement Voluntary Conservation program	\$ 120,000.00	\$ -	\$ 80,000.00
Task 2. Estimate and Verify CU and Impacts	\$ -	\$ 15,150.00	\$ -
Task 3. Water Rights Protection	\$ -	\$ -	\$ -
Task 4. Evaluate Bank strategies in Blue Mesa	\$ -	\$ -	\$ -
Admin and overhead	\$ 25,000.00	\$ -	\$ -
<b>TOTAL</b>	<b>\$145,000</b>	<b>\$15,150</b>	<b>\$80,000</b>

In-kind Match (confirmed)			
TNC	HCCA	Trout Unlimited	Total
\$ -	\$ -	\$ 11,200.00	\$ 211,200.00
\$ -	\$ -	\$ 5,700.00	\$ 20,850.00
\$ -	\$ -	\$ 4,400.00	\$ 4,400.00
\$ 5,000.00	\$ 4,000.00	\$ 10,000.00	\$ 19,000.00
\$ -	\$ -	\$ -	\$ 25,000.00
<b>\$5,000</b>	<b>\$4,000</b>	<b>\$31,300</b>	<b>\$280,450</b>

September 29, 2017

Attn: Linda Bassi  
Colorado Water Conservation Board  
1313 Sherman St., Room 718  
Denver, CO 80203

RE: Tomichi Water Conservation Program Project Proposal

Dear CWCB Staff,

On behalf of The Nature Conservancy and our Colorado River Program, I am pleased to offer our support for the Tomichi Water Conservation Program grant application. This project is in line with our program's goal to protect and restore healthy stream flows in the Colorado River Basin and we believe it will help further develop the solutions necessary to maintain robust agriculture and healthy streams as we face increasing demands and decreasing supplies here in Colorado and throughout the broader river basin.

The Nature Conservancy has been an active leader in researching and developing innovative water conservation programs in Colorado, including investigation on how a water bank can work to address risks associated with drought and the Colorado River Compact. With this work, we frequently face questions and concerns about how agricultural water conservation will affect operations, their surrounding communities, and how water banking scenarios will play out on the ground. Additionally, we have worked with Trout Unlimited and other partners in the Gunnison Basin to understand the legal and operational implications of water banking as it relates to local storage facilities. This project provides the opportunity to better understand those tough questions through on the ground research and project implementation.

The Conservancy is a committed partner in the Tomichi Water Conservation Project and I strongly encourage the Colorado Water Conservation Board to fully support the project.

Thank you for your time and consideration.

Sincerely,



Aaron Derwingson  
Agricultural Coordinator, Colorado River Program