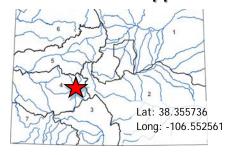


Upper Gunnison Multiple Diversion Improvement Project Trout Unlimited

July 2020 Board Meeting

Water Plan Grant Application



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154 DETAILS
Total Project Cost: \$154,406
Water Plan Grant Request: \$52,731
Recommended Amount: \$52,731
Other CWCB Funding: \$19,000 (pending)
Other Funding Amount: \$76,032
Applicant Match: \$6,525
Project Type(s): Construction
Project Category(Categories): Agricultural
Measurable Result: Agricultural water efficiency/conservation (\$1,500 AF/yr), 1,300 linear feet of stream restored

This project is a cooperative effort coordinated by Trout Unlimited (TU) with the Upper Gunnison River Water Conservancy District, United States Fish and Wildlife Service Partners for Fish and Wildlife, Gunnison Angling Society, and several private landowner partners to reconstruct three separate diversion structures in the Upper Gunnison Basin.

Two of the diversions (Buckey Lehman Ditch and Hyzer Ditch) are located on Ohio Creek, a tributary to the Gunnison River. One diversion (Marshall No. 2), is located on the mainstem Gunnison, 6 miles north of the town of Gunnison. These diversions have similar characteristics in that they are all contributing to channel excessive erosion during high flow periods and do not effectively divert water rights during low flow periods. The new structures will be constructed to eliminate the need for regular in-channel disturbance and allow access to decreed water rights at a range of flow levels. Structure design will also provide quality aquatic habitat and refuge for trout. These three diversions are used to divert water to over 600 acres of grass pasture and hay meadow. A total of 13 individual water right owners will benefit from this project. Each site will include localized riparian and habitat restoration totaling 1000 feet.

Projects were identified through the Upper Gunnison Watershed Assessment and Stream Management Planning Effort funded in part through a CWCB Watershed Restoration Grant. The goal of this planning effort is to help protect existing water uses and watershed health in the Upper Gunnison Basin in the face of increased water demands and permanent reductions in the overall water supply. Providing Colorado Water Plan Grant dollars to further these integrated watershed and stream management planning efforts helps further several goals in the Colorado Water Plan and will help encourage more involvement in future planning efforts.

Staff recommends Board approval of the full grant amount requested. This project furthers several of Colorado's Water Plan critical action goals relating to agriculture, including encouraging agriculture efficiency and resiliency while promoting agricultural productivity. The project also supports collaboration, bringing a diverse group of stakeholders together to leverage resources and furthering CWP stream management planning goals. Finally, this project will provide multiple benefits, including demonstrating innovative efficiency practices, creating fish passage, and maintaining flows for an important, recreational cold-water fishery.



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:

Water Storage Projects
Conservation, Land Use Planning
Engagement & Innovation Activities
Agricultural Projects
Environmental & Recreation
Projects

Anna.Mauss@state.co.us Kevin.Reidy@state.co.us Ben.Wade@state.co.us Alexander.Funk@state.co.us Chris.Sturm@state.co.us

FINAL SUBMISSION: Submit all application materials in one email to waterplan.grants@state.co.us

in the original file formats [Application (word); Statement of Work (word); Budget/Schedule (excel)]. Please do not combine documents. In the subject line, please include the funding category and name of the project.

	Water Projec	t Summary	
Name of Applicant	Trout Unlimited		
Name of Water Project Upper Gunnisc		n Multiple Diversion Improvement Project	
CWP Grant Request Amount		\$52,731	
Other Funding Sources Partners for Wildlife – committed	or Fish and	\$14000	
Other Funding Sources Eagle Ridg committed	ge Ranch	\$ 6,500	
Other Funding Sources Slo Down committed	Ranch –	\$4000 (Cash)	
Other Funding Sources Slo Down committed	Ranch –	\$2000 (inkind)	
Other Funding Sources Horse Mea committed	dows HOA –	\$3000 (Cash)	
Other Funding Sources Horse Mea committed	dows HOA –	\$700 (inkind)	



Phone

Other Funding Sources Cranor ranch – committed	\$ 6000 (cash)
Other Funding Sources: WSRF Gunnison pending	\$19,000 (cash)
Other Funding Sources: UGRWCD committed	\$33,575 (cash)
GTVAD Owners Contribution committed	\$6275
Applicant Funding Contribution	\$ 6525
Total Project Cost	\$154,406

Applicant & Grantee Information		
Name of Grantee(s) Trout Unlimited		
Mailing Address: 1777 North Kent Street, Suite 100 Arlington VA, 22209		
FEIN: 38-161215		
Organization Contact: Danielle Typinski		
Position/Title: Grant Compliance Coordinator		
Email: danielle.typinski@tu.org		
Phone: (703)284-9429		
Grant Management Contact: Jesse Kruthaupt		
Position/Title; Upper Gunnison Project Manager		
Email; jesse.kruthaupt@tu.org		
Phone: 970-209-0976		
Name of Applicant (if different than grantee)		
Mailing Address		
Position/Title		
Email		

Description of Grantee/Applicant

Provide a brief description of the grantee's organization (100 words or less).



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 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 manager.

	Type of Eligible Entity (check one)				
	Public (Government): 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.				
	Public (Districts): Authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises.				
	Private Incorporated: Mutual ditch companies, homeowners associations, corporations.				
	Private Individuals, Partnerships, and Sole Proprietors: Private parties may be eligible for funding.				
х	Non-governmental organizations (NGO): Organization that is not part of the government and is non-profit in nature.				
	Covered Entity: As defined in Section 37-60-126 Colorado Revised Statutes.				

Type of Water Project (check all that apply)					
	Study				
Х	x Construction				
	Identified Projects and Processes (IPP)				
	Other				

Category of Water Project (check the primary category that applies and include		
relevant tasks)		



	Water Storage - Projects that facilitate the development of additional storage, artificial aquifer recharge, and dredging existing reservoirs to restore the reservoirs' full decreed capacity and 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>				
	Conservation and Land Use Planning - Activities and projects that implement long-term strategies for conservation, land use, and drought planning. Applicable Exhibit A Task(s):				
	Engagement & Innovation - Activities and projects that support water education, outreach, and innovation efforts. Please fill out the Supplemental Application on the website. Applicable Exhibit A Task(s):				
х	Agricultural - Projects that provide technical assistance and improve agricultural efficiency. Applicable Exhibit A Task(s):				
	Environmental & Recreation - Projects that promote watershed health, environmental health, and recreation. Applicable Exhibit A Task(s):				
	Other Explain:				

Location of Water Project			
Please provide the general county and coordinates of the proposed project below in decimal degrees The Applicant shall also provide, in Exhibit C, a site map if applicable.			
County/Counties	Gunnison		
Latitude	38°35'57.36"N		
Longitude	106°55'25.61"W		

Water Project Overview

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.

The Applicant shall also provide, in Exhibit A, a detailed Statement of Work, Budget, Other Funding Sources/Amounts and Schedule.



This project is a collaborate effort between Trout Unlimited, Gunnison Angling Society, the Upper Gunnison River Water Conservancy District, and several private landowner partners to reconstruct upgrade four separate diversion structures in the Upper Gunnison Basin.

Two of the diversions, Buckey Lehman Ditch and Hyzer Ditch, are located on Ohio Creek, a tributary to the Gunnison River. Two diversions, the Marshall No. 2, and Gunnison and Tomichi Valley Ditch are located on the mainstem Gunnison, approximately 6 miles north of the town of Gunnison.

These diversions have similar characteristics. The headgates are antiquated and difficult to operate, the dams require regular maintenance that contribute to channel erosion during high flow periods and three of the four do not effectively divert water rights during low flow periods. The new structures will be constructed to eliminate the need for regular in-channel disturbance and allow access to decreed water rights at a range of flow levels. Structure design will also provide quality aquatic habitat and refuge for trout.

These four diversions are used to divert water to over 1000 acres of grass pasture and hay meadow in the Gunnison Basin. A total of 16 individual water right owners will benefit from this project. Each site will include localized riparian and habitat restoration that will total approximately 1000 feet.

Measurable Results				
To catalog measurable results achieved with the CWP Grant funds, please provide any of the following values as applicable:				
	New S	torage Created (acre-feet)		
	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive			
	Existing Storage Preserved or Enhanced (acre-feet)			
1,300 Length of Stream Restored or Protected (linear feet)				
\$1,500/year Efficiency Savings (indicate acre-feet/year OR dollars/year)				
	Area of Restored or Preserved Habitat (acres)			
	Quantity of Water Shared through Alternative Transfer Mechanisms			
Number of Coloradans Impacted be into Land Use Planning		er of Coloradans Impacted by Incorporating Water-Saving Actions nd Use Planning		
	Number of Coloradans Impacted by Engagement Activity			
Recreational benefits	Other	Explain: Reduce risk rafters flipping from diversion drop structure and river aesthetic on a highly used section of the Gunnison River		



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:)

This project will help meet the following 3 of the goals listed in the Gunnison BIP, pp 30-31. Primary Goal:

1. Protect existing uses: The infrastructure and habitat improvements planned will protect and improve environmental, agricultural, and recreational uses in the Gunnison River Basin.

Complementary Goals

6. Maintain or, where necessary, improve water quality throughout the Gunnison Basin: The proposed in channel improvements will reduce erosion and improve channel stability. Over time, two of the structures on Ohio Creek will help transform the channel to a narrower deeper profile leading to lower water temperatures and providing better refuge for trout.

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 local agencies to address environmental, recreational, and agricultural water needs. It will protect pre-compact agricultural water rights, improve cold water trout habitat, reduce risk of flipping for rafters, and reduce the amount of labor necessary to annually maintain diversions.

In on page 1-6 of the Colorado Water plan sites three core water values. The second value is "Efficient and effective water infrastructure promoting smart land use." This project will upgrade ranch infrastructure and demonstrate how irrigation diversion design can be used to manage healthy riverine ecosystems and productive agriculture.

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.



- Gunnison River Riparian Assessment
- Upper Gunnison Watershed Assessment and Stream Management Plan

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.

Grant Name	Agreement Numbe	r Amount	t Start Date	End Date
	_		11/29/201	L
Irrigators in Kremmling	CTGG1 2017-0667	\$465,40	00 6	9/30/201
Redburn Ranch Diversion Dam	CTGG1 2015-2791	\$148,50	00 1/27/2015	6/1/201
San Miguel River Stream				
Management Plan Pilot	POGG1 2016-0800	\$96,41	3/22/2016	6/1/201
Ware Hinds Fish Bypass	POGG1 2017-0749	\$63,50	00 2/14/2017	7 12/31/201
Windy Gap Reservoir Bypass	POGG1 2016-0900	\$30,00	00 5/18/2016	5 1/31/201
W-Mountain Ranch Restoration	POGG1 2016-0610	\$15,00	00 1/8/2015	5 5/31/201
Kerber Creek Restoration	POGG1 2015-0286	\$30,00	00 6/10/2015	5 10/31/201
River Ranch Irrigation Diversion	CTGG1 2015-3313	\$113,00	00 6/9/2015	5/31/201
			11/14/201	
South Arkansas River Restoration	POGG1 2015-0175	\$10,00		
Upper Ohio Creek Flow			10/10/201	
Restoration	POGG1 2015-0161	\$6,00	00 4	12/31/201
Tomichi Water Conservation	POGG1 2018-901	\$109,500		
Program	&902	(50%)	5/4/2018	5/4/2018
Cimarron Canal Diversion Gate				
Replacement and Water Management	POGG1,PDAA,202			
Planning Project	000002130	\$30,418	8/15/2019	7/31/2021
	POGG1,PDAA,20			6/30/2020
Wilbur Ditch Improvement	1900002930	\$20,500	6/3/2019	· ·
	Taxpayer Bill of R	ights		



Edot Opdatod: July 2010
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.
None

	Submittal Checklist						
Х	I acknowledge the Grantee will be able to contract with CWCB using the Standard Contract.						
Exhi	bit A						
Х	Statement of Work ⁽¹⁾						
Х	Budget & Schedule ⁽¹⁾						
	Engineer's statement of probable cost (projects over \$100,000)						
Х	Letters of Matching and/or Pending 3 rd Party Commitments ⁽¹⁾						
Exhi	bit C						
Х	Map (if applicable) ⁽¹⁾						
Х	Photos/Drawings/Reports						
Х	Letters of Support (Optional)						
	Certificate of Insurance (General, Auto, & Workers' Comp.) (2)						
	Certificate of Good Standing with Colorado Secretary of State ⁽²⁾						
	W-9 ⁽²⁾						
	Independent Contractor Form ⁽²⁾ (If applicant is individual, not company/organization)						
Eng	agement & Innovation Grant Applicants ONLY						
	Engagement & Innovation Supplemental Application ⁽¹⁾						

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



Colorado Water Conservation Board

Water Plan Grant - Exhibit A

Statement Of Work						
Date:	1/20/2020					
Name of Grantee:	Trout Unlimited					
Name of Water Project:	Upper Gunnison Diversion					
Funding Source:	Colorado Water Plan Grants, Agricultural category					

Water Project Overview:

This project is a collaborate effort between Trout Unlimited, Gunnison Angling Society, the Upper Gunnison River Water Conservancy District, and several private landowner partners to reconstruct upgrade four separate diversion structures in the Upper Gunnison Basin.

Two of the diversions, Buckey Lehman Ditch and Hyzer Ditch, are located on Ohio Creek, a tributary to the Gunnison River. Two diversions, the Marshall No. 2, and Gunnison and Tomichi Valley Ditch are located on the mainstem Gunnison, approximately 6 miles north of the town of Gunnison.

These diversions have similar characteristics. The headgates are antiquated and difficult to operate, the dams require regular maintenance that contribute to channel erosion during high flow periods and three of the four do not effectively divert water rights during low flow periods. The new structures will be constructed to eliminate the need for regular in-channel disturbance and allow access to decreed water rights at a range of flow levels. Structure design will also provide quality aquatic habitat and refuge for trout.

These four diversions are used to divert water to over 1000 acres of grass pasture and hay meadow in the Gunnison Basin. A total of 16 individual water right owners will benefit from this project. Each site will include localized riparian and habitat restoration that will total approximately 1000 feet.

Project Objectives:

Objectives for this project include:

- Improve access and control of pre compact water rights.
- Reduce in channel disturbance caused by diversion maintenance.
- Reduce risk of diversion failure during high flow periods.
- Improve channel stability and instream habitat.



Tasks

Task 1 - Marshall No. 2 Diversion Improvement

Description of Task:

This task will involve moving the Marshall No. 2 point of diversion upstream 600 feet, constructing a headgate at the new point of diversion, and constructing a ditch to convey water from the new headgate to the existing ditch. This task also involves restoring a section of ditch near the Marshall No. 2 that was eroded during the spring of 2019.

The Marshall No. 2 is used to irrigate 300 acres of grass meadow owned by the Cranor Ranch and Slo Down Ranch. These ranches are managed for agricultural production and provide open space and wildlife habitat in the upper Gunnison Valley. The Marshall No. 2 ditch has two water rights, one decreed for 11.14 CFS adjudicated in 1906, and one decreed for 31.55 CFS adjudicated in 1941. The diversion is located on the Gunnison River approximately 6 miles north of the city of Gunnison on a section of the Gunnison that is popular for rafting, kayaking, and float fishermen.

Due to its positioning on the inside bend of the river, this diversion has been historically difficult to get water during low flow periods as cobble and sediment regularly deposit near the ditch inlet. In 2018, owners constructed a cross vane to direct water to the ditch inlet at extremely low flow periods. Unfortunately, this vane contributed to erosion on the opposing bank in the spring of 2019. The Upper Gunnison River Water Conservancy District commissioned Merrick Engineering to evaluate the existing diversion positioning and propose alternatives to address issues. Marshall No. 2 owners have selected the alternative that involves moving the ditch inlet upstream to a location that will not have deposition and maintenance issues owners historically dealt with. This new location sits 2 feet higher in elevation than the existing ditch inlet thereby reducing the need for a channel wide cross vane.

Method/Procedure:

The new point of diversion location has been selected. Ditch alignment to most efficiently convey water from the new point of diversion location and the existing ditch will be, surveyed, flagged and cleared of trees and other debris. The landowner who owns the property which the ditch runs through is willing to provide labor and equipment to assist in clearing the new ditch line.

Water right owners will select an excavation contractor to remove the old headgate, sluice gate, and rock vane from the existing diversion location. This area will be regraded and revegetated. The selected contractor will also dig the new ditch to connect the existing ditch to the new point of diversion. The ditch will be sufficiently in-land and the river side embankment will be graded and revegetated to withstand flood events.

A new concrete ditch headgate will be designed and a contractor will be hired to pour the structure. Rock riprap will be used to prevent erosion near the headgate structure and eliminate the risk of wash out. Rather than a full cross vane to raise the elevation of the river, a small jetty has been discussed to direct adequate water into the ditch. Rock used from the cross vane at the old point of diversion will be transported up stream and used to armor the headgate and segments of ditch.

A simple point of diversion change application will not be needed as the new location will is less than 500 feet from the decreed point of diversion.

The work on the Marshall No. 2 is planned for late summer or fall of 2020.

Deliverable:



Tasks

- Design of new ditch headgate.
- Photos and summary report documenting construction and completion of the Marshall No. 2 headgate and new ditch alignment.
- Photos documenting bank restoration and repair of George Owens ditch.

Tasks

Task 2 - Buckey Lehman Diversion Improvement

Description of Task:

This task will involve upgrading the existing Buckey Lehman diversion from a cobble push-up dam to a permanent rock cross-vane structure. This task will also include replacing the existing headgate with a more operable headgate and installing a sluice gate to better control fine sediment near the ditch inlet.

The Buckey Lehman ditch diverts water from Ohio Creek and is used to irrigate grass meadow on Eagle Ridge Ranch (ERR). The ditch has three decreed water rights totaling 15.5 CFS; 3.125 CFS adjudicated in 1906, 9.37 adjudicated in 1941, and 3.0 CFS adjudicated in 1994.

Eagle Ridge Ranch is a 4900-acre ranch located 15 miles north of the town of Gunnison. This property is operated as a Homeowners Association. Hay and livestock production on the ranch is leased to a private agricultural producer. Environmental conservation efforts on the ranch encompass wildlife habitat conservation, along with maintaining good water quality for Ohio Creek.

Eagle Ridge Ranch has been an active participant in the Upper Gunnison Watershed Management Planning effort. This project was developed as a result of that effort. Partners for Fish and Wildlife are also a contributing partner to this project.

Method/Procedure:



Tasks

Creekside Angling and Environmental has been contracted to assist ERR in designing the structure and will construct the new diversion. Eagle Ridge Ranch will provide labor with all facets of the project. Trout Unlimited has also committed to assisting with design, project coordination, and grant reporting for this project.

The newly constructed diversion will be a permanent rock weir structure constructed with 2-4 foot boulders. The diversion will be shaped as a downstream widening arch. This will raise water surface elevation and prevent over toping flows from eroding or out flanking the structure. In cross section, the arch will be lower in the center of the channel to concentrate low flows, allow fish passage, and prevent deposition directly upstream of the structure. This elevation will be equivalent to the minimum elevation necessary to divert water rights into the ditch.

Rock material and the headgate assembly will be purchased and hauled to the project site in the fall of 2020. At that time an excavator will be onsite to begin construction. A coffer dam will be constructed to divert the channel to the west bank and dewater the headgate area and allow construction of the rock vane. The crossvane will be constructed upon footer rocks to prevent scour and settling. Water will be directed back to the east side of the channel and work will commence on the west side. The vane will be keyed into each bank and rip-rap will be used near the ditch inlet to prevent out flanking. A second vane may be necessary as grade control if the drop on the first vane is greater and 12 inches.

Construction is will be complete by December 1, 2020.

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- ·Design of new ditch headgate.
- Photos and summary report documenting construction and completion cross vane and headgate.

Tasks

Task 3 - Hyzer Ditch Diversion Improvement

Description of Task:



Tasks

This task will involve reconstructing the Hyzer Ditch diversion to a permanent rock vane structure. The wing from the historic diversion to the headgate has washed out and the diversion no longer functions. Water users have repeatedly used tarps and heavy equipment to build up the diversion. This maintenance has become tiresome and irritating to the property owner where the diversion is located. In addition to those issues, cobble has deposited upstream of this diversion and in the ditch inlet.

The Hyzer Ditch diverts water from Ohio Creek and is used to irrigate grass meadow on Horse Meadows subdivision and lower Castle Mountain. The ditch has four decreed water rights totaling 14.166 CFS; .4 CFS and 3.871 CFS adjudicated in 1906 (separate appropriation dates), .9 CFS adjudicated in 1941, and 8.995 CFS adjudicated in 1941.

The Horse meadow subdivision consists of 10 owners with common land that is leased for hay and livestock production. Other property owners also have smaller shares in the ditch on adjacent land to the Horse Meadows subdivision.

Several of the landowners have been active participants in the Upper Gunnison Watershed Management Planning effort. This project was developed as a result of the effort.

Method/Procedure:

Trout Unlimited will work with the water right owners to survey and finalize an appropriate cross vane design for the site. A consultant will be hired to draw the design specifications so it can be shared with all project participants. TU has also committed to assisting project coordination and grant reporting for this project.

The design currently conceptualized is a rock cross-vane that ties into the existing ditch wing. The newly constructed vane will be constructed in two layers of 2-4 foot boulders. The lower layer will act as a footer to support the upper layer and reduce scour from undermining the structure. In cross section, the vane will be lower in the center of the channel to concentrate low flows, allow fish passage, and prevent deposition directly upstream of the structure. This elevation will be equivalent to the minimum elevation necessary to divert water rights into the ditch. The vane will be keyed into each bank and sloped downward at less than 1.5% grade toward the center of the channel. This will help dissipate high flow energy and prevent water from out flanking the structure.

A qualified contractor will be selected to construct the vane. Rock material will be purchased and hauled to the project site after August 2020. At that time an excavator will be onsite to begin construction. A coffer dam will be necessary to divert water around the work area during construction. A second vane is planned as grade control downstream of the main diversion vane.

Construction is scheduled for completion by December 1, 2020.

Deliverable:



Tasks

- •Design of new diversion.
- Photos and summary report documenting construction and completion cross vane and headgate.

Tasks

Task 4 - Gunnison and Tomichi Valley Association Ditch Diversion Improvement

Description of Task:

This task is a collaborative effort between the owners of the Gunnison and Tomichi Valley Association (GVTA) Ditch, and Trout Unlimited, to replace the GVTA Ditch headgate, stabilize a section of eroded ditch bank near the headgate, and install an irrigation return/sluice gate at the point of diversion.

The GVTA Ditch delivers irrigation water from the Gunnison River to over 600 acres of grass hay meadow and pasture in the Gunnison and Tomichi Valleys. This ditch carries water from the point of diversion, 5 miles north of Gunnison near County Road 10, to the Gunnison Cemetery 1 mile east of Gunnison. In route, water is delivered to 5 ditch owners and irrigation returns from land served east of Gunnison, in the Tomichi Valley, bolster flows in lower Tomichi Creek near the Tomichi Creek State Wildlife Area.

There are eight absolute water rights decreed for the GTVA Ditch totaling 61.125 cfs. Three of these rights are decreed for a total 17.125 CFS with adjudication dates from 1906. The remaining rights decreed for a total of 44 CFS have adjudicated dates ranging from 1921 to 2006.

The proposed improvements to the GVTA Ditch will promote the use of well-established Gunnison Valley water rights and will allow for better control of irrigation water at the point of diversion.

Method/Procedure:

KR welding and fabrication has developed a cost estimate, design for the proposed improvements, and will be selected to complete the work. The headgate will be retrofitted with two new metal power up/down gate inserts. Fabrication will be completed off site but some modification to the existing structure will be necessary. Existing concrete buttresses supporting the metal gates on the ditch headgate are good shape and will not be disturbed.

A short concrete wall will be constructed to reinforce the section of ditch bank that is eroding.

The sluice structure will be a concrete apron that ties into the existing headgate. Two buttress walls will sit on the apron and support a small walkway and an 8-foot adjustable gate. The gate that will be raised with two power-down wheels commonly used for headgate operation. The apron elevation will be set to match the elevation of the ditch inlet. Cost estimate and details on construction are included as an attachment to this application.

Deliverable:



Tasks						
•Photos and summary report documenting construction and completion of headgate and sluice gate.						
Tasks						
Task 5 Grant Administration and Project Management						
Description of Task: This task will involve contracting, project management, payments to contactors, reimbursement invoices to CWCB, and accounting of project expenses. No WSRF funds will be used for this task.						
Method/Procedure:						
15% of project equipment and contracted expenses is included in the budget.						
Deliverable:						



Tasks

• Project oversight, reporting and management of 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.

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 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.



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.

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

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.



Colorado Water Conservation Board

Water Plan Grant - Exhibit B Budget and Schedule

Prepared Date:1/30/2020

Name of Applicant:Trout Unlimited

Name of Water Project : Upper Gunnison Multiple Diversion Project

Project Start Date: 8/1/2020

Project End Date: 8/1/2023

Task No.	Task Description	Task Start Date	Task End Date		atching Funds (cash & in- kind) ⁽³⁾	Plan Grants		WSRF Funds (Basin & Statewide combined) ⁽³⁾		Total
1	Marshall No. 2 Diversion Improvement	8/1/2020	8/1/2023	\$	21,025.00	\$	26,400.00	\$	10,000.00	\$ 57,425.00
2	Buckey Lehman Diversion Improvement	8/1/2020	8/1/2023	\$	14,800.00	\$	9,990.00	\$	-	\$ 24,790.00
3	Hyzer Ditch Diversion Improvement	8/1/2020	8/1/2023	\$	11,300.00	\$	9,450.00	\$	1,000.00	\$ 21,750.00
4	Gunnison and Tomichi Valley Assoc. Ditch Diversion Improvement	8/1/2020	8/1/2023	\$	35,550.00	\$	-	\$	8,000.00	\$43,550.00
5	Grant Adminstation	8/1/2020	8/1/2023	\$	-	\$	6,891.00	\$	-	\$ 6,891.00
										\$0
										\$0
	Total						\$52,731.00		\$19,000.00	\$154,406.00

COLORADO Colorado Water Conservation Board Department of Natural Resources

Department of Natural Reso	urces															
				iter Cons												
				nt - Detail Reasonal		_		mate								
Prepared Date:	1/30/2020		an ana	rica 3011a1	DIC ESC	iiiiau										
Name of Applicant:	Trout Unlimit	ed														
Name of Water Project:	Upper Gunnis	son Multiple D	Diversio	n Project												
EXAMPLE C: Construction																
Tools 4 Manushall No. 2 Diversion Income	Start date	End Date														
Task 1 - Marshall No. 2 Diversion Improv	e 8/1/2020	8/1/2023														Other
													CW	'CB Funds	N	1a tchin
Sub-task				Unit	Quar	ntitv	Ur	nit Cost	Т	otal Cost	CW	CB (WSRF)	•••	WPG		Funds
Headgate spec. drawings			EA		4.00	1	\$	2,500	\$	2,500		,	\$	2,500	\$	
Headgate concrete construction			CY			20	\$	1,000	\$	20,000	\$	5,000		5,000		10,0
Excavate ditch and remove old headgate							•	,	•	.,	•	7		.,	•	-,-
diversion			Days			8	\$	2,000	\$	16,000			\$	12,000	\$	4,0
Sluice and ditch control gate			EA			2	\$	6,000	\$	12,000	\$	5,000	\$	7,000	\$	
Tree removal			HRS		\$	40	\$	100	\$	4,000			\$	-	\$	4,0
TU coordination and grant reporting			HRS			50	\$	45	\$	2,250			\$	-	\$	2,2
Ditch alignment and surveying			HRS			15	\$	45	\$	675			\$	-	\$	6
Sub-total									\$	57,425	\$	10,000	\$	26,500	\$	20,9
Task 2 - Buckey Lehman Diversion	8/1/2020	8/1/2023														
Improvement																
																Other
														CWCB	N	1a tch i n
Sub-task				Unit	Quar	•		nit Cost		Total Cost		CB (WSRF)		nds WPG		Funds
Rock rip-rap material and hauling				Tons		222	\$	45	\$	9,990	\$	-	\$	9,990	-	
Excavation and mobilization				HRS		53	\$	180	\$	9,500		-	\$	-	\$	9,5
Headgate structure				EA		1	\$	3,500	\$	3,500	\$	-	\$ ¢	-	\$	3,5
TU coordination and reporting	11	1		HRS		40	\$	45	\$	1,800			<u>ې</u> اا د	0.000	\$	1,8
Sub-total	- 0/4/0000	0/4/0000							\$	24,790	\	-	\$	9,990	\$	14,8
Task 3- Hyzer Ditch Diversion Improvem	e 8/1/2020	8/1/2023														Other
															Λ.	la tchin
Sub-task				Unit	Quar	\+i+\/	Hr	nit Cost	-	Total Cost	CW	CB (WSRF)	C	NCB WPG	IV	Funds
Structure design				HRS	Quai	15	\$	150	\$	2,250	\$	- CD (W3INI)	\$	450	\$	1,8
Rock rip-rap				Tons		218	\$	45	\$	9,800	\$	1,000	\$	5,400	\$	3,4
Headgate modification				HRS		8	\$	88	\$	700	\$	-	\$	- -	ς ς	7
Excavation and rock placement				HRS		40	\$	180	\$	7,200	\$	_	\$	3,600	\$	3,6
TU coordination and grant reporting				HRS		40	\$	45	\$	1,800	Y		\$	-	\$	1,8
Sub-total									\$	21,750	\$	1,000	\$	9,450	\$	11,3
Task 4 - Gunnison and Tomichi Assoc.			_							<u> </u>		<u> </u>		<u> </u>		<u> </u>
Ditch Diversion Improvement	8/1/2020	8/1/202	23													
р	-, , -	-, , -														Other
															Ν	1a tchin
Sub-task				Unit	Quar	ntity	Ur	nit Cost	7	Total Cost	CW	CB (WSRF)	C۱	NCB WPG		Funds
Materials (rock and concrete)			CU						\$	24,000	\$	-	\$	-	\$	24,0
Headgate Fabrication									\$	10,450	\$	8,000	\$	-	\$	2,4
Excavation and Labor									\$	9,100	\$	-	\$		\$	9,1
Sub-total									\$	43,550	\$	8,000	\$	-	\$	35,5
Task 5 - Grant Administration	8/1/2020	8/1/2023														
TU grant admin overhead						0.15	\$	45,940	\$	6,891	\$	-	\$	6,891	\$	-
Sub-total									\$		\$	-	\$	6,891	\$	47,1
TOTAL									\$	154,406	\$	19,000	\$	52,831	\$	82,5

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

Re: Upper Gunnison Multiple Diversion Project, GBRT Grant Application Approval

Dear Mr. Godbout,

I am writing on behalf of the Gunnison Basin Roundtable to advise you that the membership has approved an application for improvements on three diversions in the Upper Gunnison area, one on Ohio Creek and two above the City of Gunnison. All three of these projects involve improving the efficiency and alignment of existing diversions. These projects meet BIP goals of maintaining existing agricultural use, improving agricultural efficiency, and improving aging infrastructure. The GBRT approved \$19,000 in basin funds for these projects. The total original request was for \$44,476.

The GBRT supported \$10,000 for the Marshall #2 project; \$1000 for the Hyzer Ditch project on Ohio Creek; and \$8000 for the Gunnison and Tomichi Valley project.

If we can provide you with any additional information or answer any questions please let us know.

Best Regards,

Kathleen Curry

Kathleen Curry, Chair Gunnison Basin Roundtable 54542 US Highway 50 Gunnison, CO 81230 kathleencurry@montrose.net Cell 970-209-5537 Home 970-641-0699 Cranor Inc. 3600 County Rd. 10 Gunnison, CO 81230 970-209-1218 June 9, 2020

Colorado Water Conservation Board Colorado Water Plan Grants Agricultural Category

RE: Upper Gunnison Multiple Diversion Project

Dear Mr. Godbout.

Cranor Inc., a family Corporation owns a major share in the Marshall No. 2 ditch.

The Marshell No. 2 Ditch diversion has historically been difficult to operate and does not effectively divert water when the Gunnison River flows less than 700 cfs without the use of tarps or pushing up cobble. The structure requires regular maintenance which has led to erosion near the existing dam and ditch inlet.

During the last 18 months the owners of the Marshell No. 2 ditch have evaluated strategies to upgrade the diversion in a way that will reduce labor, reduce channel erosion near the site, eliminate the need for in-channel disturbance with heavy equipment, improve river aesthetics, and floating on this segment of the Gunnison River.

The opportunity to work with Trout Unlimited and utilize CWCB grant funding will enable water right owners to construct a diversion that will be functional for irrigation, recreational, and ecological needs during low flow and flood flow periods.

Cranor Inc. encourages the Colorado Water Conservation Board to grant Trout Unlimited funds requested for the Upper Gunnison Multiple Diversion Project.

Cranor Inc is offering to provide wheeled backhoe with operator as needed, concrete placement expertise and up to \$6000 cash for other work not done by us.

Thank you for taking the time to consider these projects.

Sincerely,

Walter J. Cranor, Pres.

Cranor Inc.



Upper Gunnison River Water Conservancy District

210 West Spencer Avenue, Suite B • Gunnison, Colorado 81230 (970) 641-6065 • www.ugrwcd.org

March 23, 2020

Trout Unlimited Jesse Kruthaupt 604 Elsa Court Gunnison, CO 81230

Re: Upper Gunnison Multiple Diversion Project

Dear Jesse,

This letter is to acknowledge the approval of your grant request submitted to the Upper Gunnison River Water Conservancy District (UGRWCD). You have been approved for a total of \$11,800 which includes \$6,000 from the UGRWCD Grant Program and \$5,800 from the Upper Gunnison Watershed Management Planning Program monies.

The program received grant requests for over \$340,000 for a wide range of well-qualified proposals, with requests ranging from \$3,000 to \$50,000. The total of the grant requests was well over the \$200,000 amount appropriated for 2020.

The release of these grant funds is subject to entering into a Funding Agreement which must be signed by both the UGRWCD and the awarded party. Please contact our office at 970-641-6065 to proceed with the Funding Agreement.

Congratulations,

Sonja Chavez

Sonja Chavez General Manager 2020, June 15

Colorado Water Conservation Board Water Supply Reserve Fund Gunnison Basin Roundtable

RE: Marshall No 2 Diversion Improvement Project

Dear Mr Godbout,

The Marshall No.2 Ditch Diversion has historically been difficult to operate and does not effectively divert water when the Gunnison River has low flows. During 2019, the owners of the Marshall No.2 ditch have evaluated strategies presented in a technical memorandum presented by Rick McLaughlin, PE of Merrick & Company. These strategies to upgrade the diversion will reduce labor, reduce channel erosion near the site, eliminate the need for in-channel disturbance with heavy equipment, and improve river aesthetics and habitat on this segment of the Gunnison River. John and Molly Sloan, from the Slo Down Ranch and part owners of the Marshall No.2 Ditch, encourages the Colorado Water Conservation Board to grant Trout Unlimited funds requested for the Marshall No.2 Diversion Improvement project.

We are willing to commit \$4000 cash as well as \$2000 dollars in kind to help fund this project. In kind to include skid steer and mini excavator equipment and operation as well as time spent daily assisting the project.

Thank you for your consideration of this project.

Sincerely,

John and Molly Sloan 450 Lost River Lane Gunnison, CO 81230 970-209-2912 (Johns cell)

Buckey Lehman Diversion

Proposed Improvements

Eagle Ridge Ranch

January 23, 2020

The Buckey Lehman Ditch is right #83 on Ohio Creek with 12.5 CFS decreed to Eagle Ridge Ranch HOA (ERR). The ditch is used to supply water to the Eagle Ridge Ranch fishing pond and subsequently can be utilized for irrigation or directed back to Ohio Creek. In the Fall of 2019 ERR, in conjunction with Partners for Fish and Wildlife (FWS) and Upper Gunnison River Water Conservation District, completed an irrigation improvement project that would allow irrigators to utilize Buckey Lehman Ditch water, as well as tailwater from the Teachout Ditch, much more efficiently while also augmenting shallow water wetland habitat. The proposed project will increase this water use efficiency and further improve the wetland wildlife habitat.

Historically the Buckey Lehman Diversion has required annual maintenance involving the mechanical 'push-up' of material to deliver water to the headgate structure. This activity is time consuming and disturbs the creek bed which effects water and habitat quality on Ohio Creek. The design calls for substantial rip-rap structures that can withstand high water flow events in the creek. This permanent rock structure will efficiently deliver irrigation water to a new headgate structure which will include a discharge gate back to the creek. The discharge gate will further improve the effectiveness and maintenance requirements of the diversion allowing for quick adjustments of water delivered to the ditch and cleaning of debris and sediment from the point of diversion.

Currently the proposed design calls for a budget as follows:

\$10,000.00 Rip-Rap Material and Hauling
 \$9,500.00 Excavation and Mobilization

- \$3,500.00 Headgate Structure

Total: \$23,000

Funding for the project will be structured as a cost share agreement between Eagle Ridge Ranch HOA, Partners for Fish and Wildlife and Colorado Water Conservation Board through a grant application submitted by Trout Unlimited. Proposed funding breakdown is as follows:

- \$6,500.00 Eagle Ridge Ranch HOA - \$6,500.00 Partners for Fish and Wildlife

- \$10,000.00 CWCB

Eagle Ridge Ranch believes this project will greatly improve the irrigation efficiency of the ranch while providing a final step to the previously completed projects. The advantages of the project will be numerous and will not only benefit ERR irrigators but also downstream stakeholders as well as migratory and local wildlife. Please feel free to contact me with any questions or concerning regarding this proposal.

Best Regards, Travis Brooks Ranch Manager, Eagle Ridge Ranch (970)901-0430



United States Department of the Interior

FISH AND WILDLIFE SERVICE 134 Union Blvd Lakewood, Colorado 80228



In Reply Refer to: FWS/IR05/IR07

29 January 2020

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

Subject: Water Plan Grant Application for Eagle Ridge Ranch – Buckey Lehman Diversion Project Proposal

Dear Water Plan Grant Review Committee:

The U.S. Fish and Wildlife Service, Colorado Partners for Fish and Wildlife program (CO PFW) strongly supports the Eagle Ridge Ranch – Buckey Lehman Diversion Project Proposal. CO PFW is actively working in partnership with Eagle Ridge Ranch by providing both technical and financial assistance to improve the Ranch's flood irrigation infrastructure. During 2019, CO PFW assisted Eagle Ridge Ranch in completing an irrigation improvement project that utilizes Buckey Lehman Ditch water and Teachout Ditch tailwater. The project resulted in more efficient use of irrigation water while also enhancing working wet meadows. The Buckey Lehman Diversion project proposal will significantly improve the "push-up" dam currently used to deliver Buckey Lehman Ditch water, while reducing damage to the streambed, reducing significant annual maintenance, increasing water use efficiency, bolstering prior flood irrigation infrastructure improvements, as well as supporting wildlife habitat.

CO PFW recognizes the complexity and critical importance that flood irrigation practices have on keeping private ranch lands viable and benefits to a myriad of wildlife species. CO PFW expresses full support towards the success of this project and has committed \$6,500 of matching funds, in anticipation of receiving grant funding from the Colorado Water Conservation Board – Water Plan Grant. Thank you for considering CO PFW's support and this project. If you have any questions regarding the CO PFW program or details of this project, please contact Brandon Miller, CO PFW Private Lands Biologist, 307 N. Main St., Suite 2C, Gunnison, CO 81230; 970-615-0119; or brandon_miller@fws.gov.

Sincerely,

Dominic Barrett
State Coordinator

INTERIOR REGION 7
UPPER COLORADO RIVER BASIN

COLORADO, NEW MEXICO, UTAH, WYOMING

June 15, 2020

Attn: Craig Godbout Colorado Water Conservation Board Water Supply Reserve Fund Gunnison Basin

RE: Hyzer Ditch Diversion Improvement

Dear Mr. Godbout,

I am a homeowner in Horse Meadows subdivision. During the last several months we have spear headed an effort to address issues related to the Hyzer Ditch diversion. This effort has included HOA meetings and coordination with all the owners of the Hyzer ditch. Trout Unlimited's assistance in seeking funding for this project is the reason it is moving forward.

We have discussed alternatives to upgrade the diversion in a way that will reduce neighbor contention, reduce labor, eliminate the need for in-channel disturbance with heavy equipment, and improve habitat on this segment of Ohio Creek.

If the CWCB funding is awarded, the Horse Meadow subdivision will contribute \$3000 cash toward the diversion repair. Also, we are in the process of replacing the Hyzer ditch waste gate at a cost of \$700. Total contributions from Horse Meadows Subdivision is \$3000 cash and \$700 of in-kind labor.

I encourage the Colorado Water Conservation Board to grant Trout Unlimited funds requested for is project. I am confident this project will result in four functional diversions supporting irrigation and ecological needs during low flow and high flood flow periods

Thank you for taking the time to consider these projects.

Sincerely,

Eric Kowal, Horse Meadows HOA Vice President

39 Sydney Court Horse Meadows subdivision

Gunnison, CO 81230

Ere Kour

970-209-7045



Upper Gunnison River Water Conservancy District

210 West Spencer Avenue, Suite B • Gunnison, Colorado 81230 (970) 641-6065 • www.ugrwcd.org

March 23, 2020

Steve Guerrieri 1666 Highway 135 Gunnison, CO 81230

Re: Gunnison and Tomichi Valley Ditch Head Gate Modernization

Dear Steve,

This letter is to acknowledge the approval of your grant request submitted to the Upper Gunnison River Water Conservancy District (UGRWCD). You have been approved for \$21,775 in UGRWCD District Grant monies for the above referenced project.

The program received grant requests for over \$340,000 for a wide range of well-qualified proposals, with requests ranging from \$3,000 to \$50,000. The total of the grant requests was well over the \$200,000 amount appropriated for 2020.

The release of these grant funds is subject to entering into a Funding Agreement which must be signed by both the UGRWCD and the awarded party. Please contact our office at 970-641-6065 to proceed with the Funding Agreement.

Congratulations,
Sonja Chaves

Sonja Chavez General Manager June 15, 2020

Attn: Craig Godbout Colorado Water Conservation Board Water Supply Reserve Fund Gunnison Basin

RE: Gunnison and Tomichi Valley Association Ditch

Dear Mr. Godbout,

The Gunnison and Tomichi Valley Association Ditch (GTVAD) headgate modernization is part of Trout Unlimited's larger Upper Gunnison Multiple Diversion Grant proposal. The GTVAD component of the project will involve updating the headgate installing a sluice gate at the ditch point of diversion. These improvements will greatly reduce maintenance and improve our ability to manage water at high and low flow levels.

The estimated cost of these improvements is \$43,550. In coordination with Trout Unlimited, we have succeeded in securing \$21,775 from the Upper Gunnison River Water Conservancy District and \$7,500 from USFWS Partners for Fish and Wildlife Program. We are optimistic that the \$8,000 recommended by the Gunnison Basin Round Table will be approved by the CWCB board. If these funds are approved, GTVAD ditch owners are committed to paying the remaining \$6,275 necessary to complete the project.

We encourage the Colorado Water Conservation Board to grant Trout Unlimited funds requested for this project. The result will be four functional diversions that support irrigation and ecological needs in the Upper Gunnison Basin.

Sincerely

Burt Guerrieri

General Partner, Bar Slash Bar Ranch LLLP

June 15, 2020

Attn: Craig Godbout Colorado Water Conservation Board Water Supply Reserve Fund Gunnison Basin

RE: Gunnison and Tomichi Valley Association Ditch

Dear Mr. Godbout,

The Gunnison and Tomichi Valley Association Ditch (GTVAD) headgate modernization is part of Trout Unlimited's larger Upper Gunnison Multiple Diversion Grant proposal. The GTVAD component of the project will involve updating the headgate installing a sluice gate at the ditch point of diversion. These improvements will greatly reduce maintenance and improve our ability to manage water at high and low flow levels.

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We encourage the Colorado Water Conservation Board to grant Trout Unlimited funds requested for this project. The result will be four functional diversions that support irrigation and ecological needs in the Upper Gunnison Basin.

Sincerely.

9.0....

President Guerrieri Land & Cattle, Inc.

June 22, 2020

Attn: Craig Godbout Colorado Water Conservation Board Water Supply Reserve Fund Gunnison Basin

RE: Gunnison and Tomichi Valley Association Ditch

Dear Mr. Godbout,

The Gunnison and Tomichi Valley Association Ditch (GTVAD) headgate modernization is part of Trout Unlimited's larger Upper Gunnison Multiple Diversion Grant proposal. The GTVAD component of the project will involve updating the headgate installing a sluice gate at the ditch point of diversion. These improvements will greatly reduce maintenance and improve our ability to manage water at high and low flow levels.

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We encourage the Colorado Water Conservation Board to grant Trout Unlimited funds requested for this project. The result will be four functional diversions that support irrigation and ecological needs in the Upper Gunnison Basin.

Sincerely,

Gunnison Valley Properties LLC

By: L. Richard Bratton

Manager



United States Department of the Interior



FISH AND WILDLIFE SERVICE

COLORADO PARTNERS FOR FISH AND WILDLIFE 134 UNION BLVD.; SUITE 400C LAKEWOOD, COLORADO 80228 303-236-4341

Colorado Water Conservation Board ATTN: Craig Godbout 1313 Sherman Street, Room 718 Denver, CO 80203

Subject: Water Supply Reserve Fund Grant: Gunnison and Tomichi Valley Ditch Head-Gate Modernization Project

Dear Mr. Godbout,

The U.S. Fish and Wildlife Service, Colorado Partners for Fish and Wildlife (CO PFW) program strongly supports the Gunnison and Tomichi Valley Ditch Head-Gate Modernization Project. CO PFW is actively working in partnership with the owners of the Gunnison and Tomichi Valley Association (GVTA) Ditch, Trout Unlimited, and Colorado Parks and Wildlife (CPW) to replace the GVTA Ditch headgate, stabilize a section of eroded ditch bank near the headgate, and install an irrigation return/sluice gate at the point of diversion. These improvements will greatly reduce maintenance and improve the operator's ability to better manage water at high and low flow levels. CO PFW is committed to providing both technical assistance and committing financial assistance in order to make improvements to flood irrigation infrastructure. CO PFW also recognizes the complexity and critical importance that flood irrigation practices have on keeping private ranch lands viable, as well as benefits to a myriad of wildlife species.

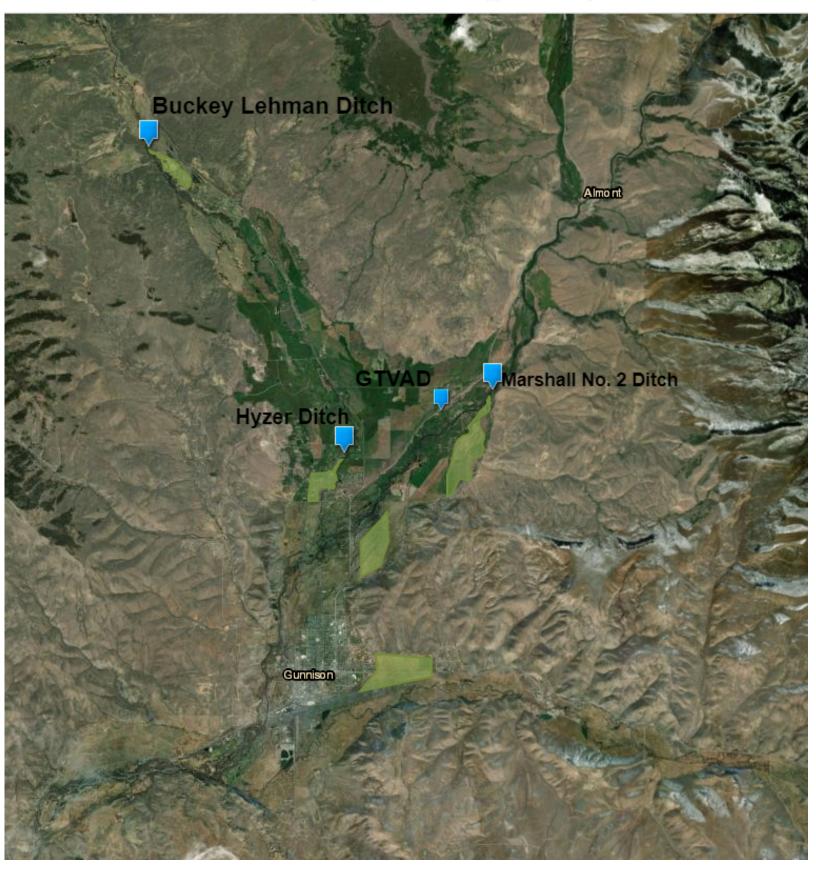
CO PFW expresses full support towards the success of this project and has secured \$7,500.00 in matching funds. Thank you for considering CO PFW's support and this project. If you have any questions regarding the CO PFW program and/or details of this project, please contact Brandon Miller, CO PFW Private Lands Biologist, 307 N. Main St., Suite 2C, Gunnison, CO 81230; 970-615-0119; or brandon miller@fws.gov.

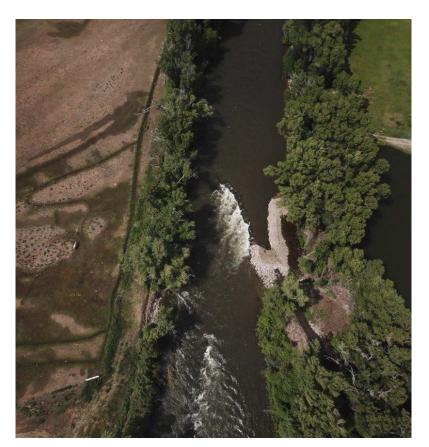
Sincerely,

Dominic Barrett State Coordinator



UG Multiple Diversions Regional Map



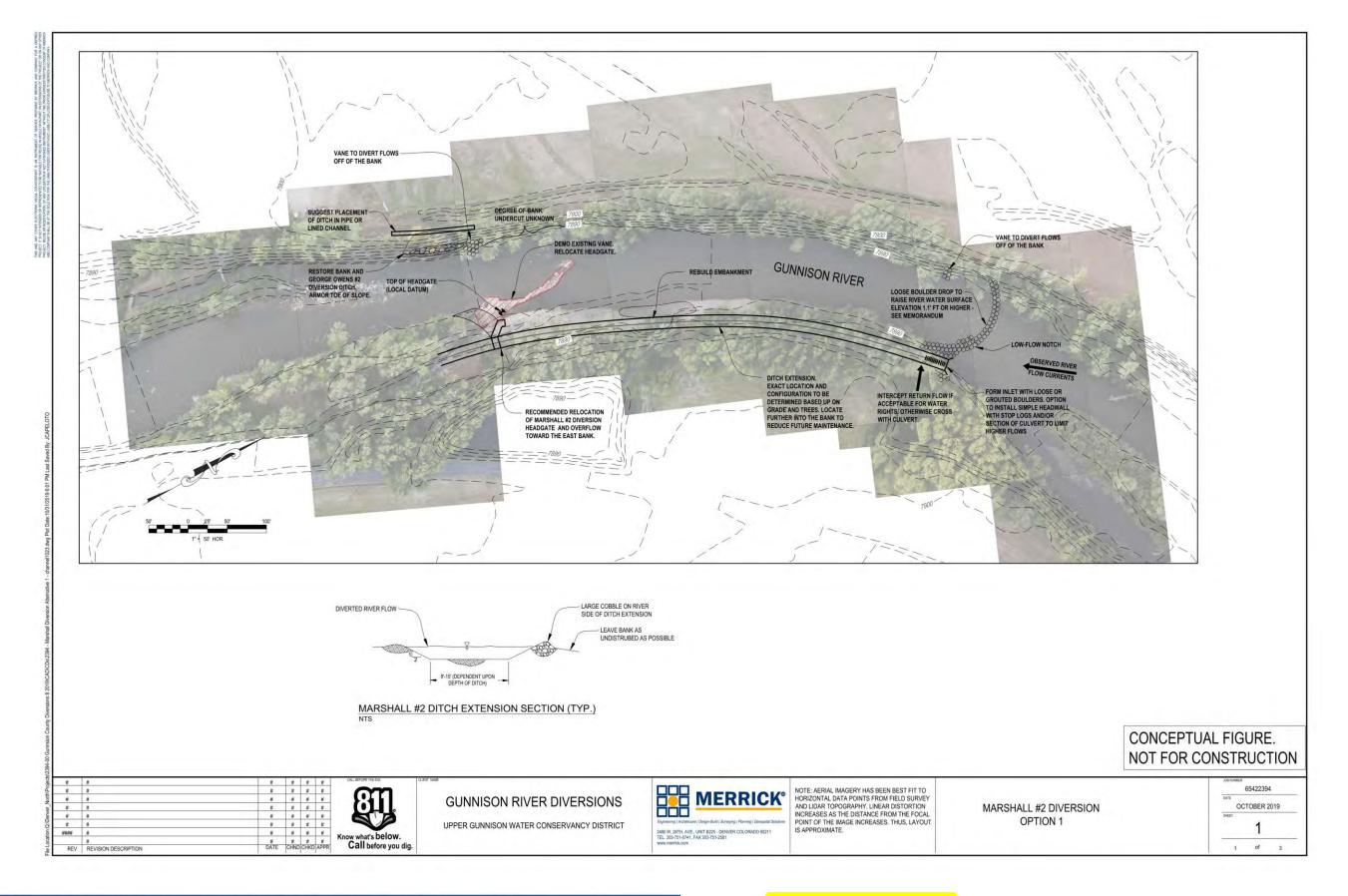


Marshall N. 2 during spring 2019



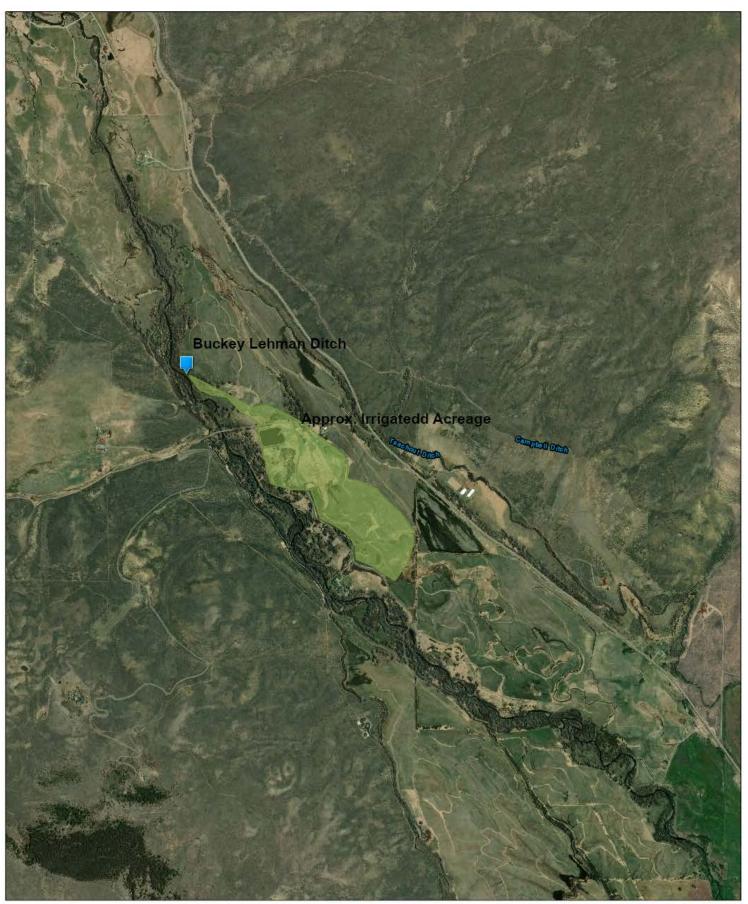






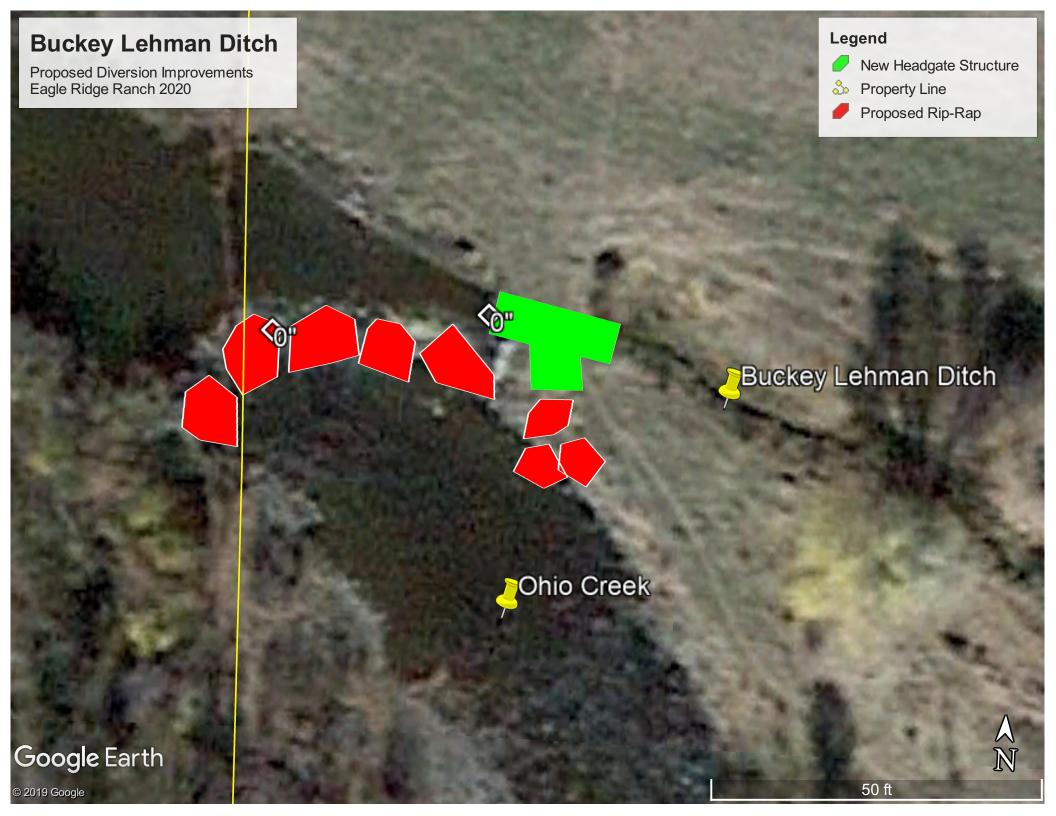
Employee Owned

Buckey Lehman Ditch



February 1, 2020

1:18,056



Hyzer Ditch Regional



February 1, 2020

1:18,056

Hyzer Existing Condition



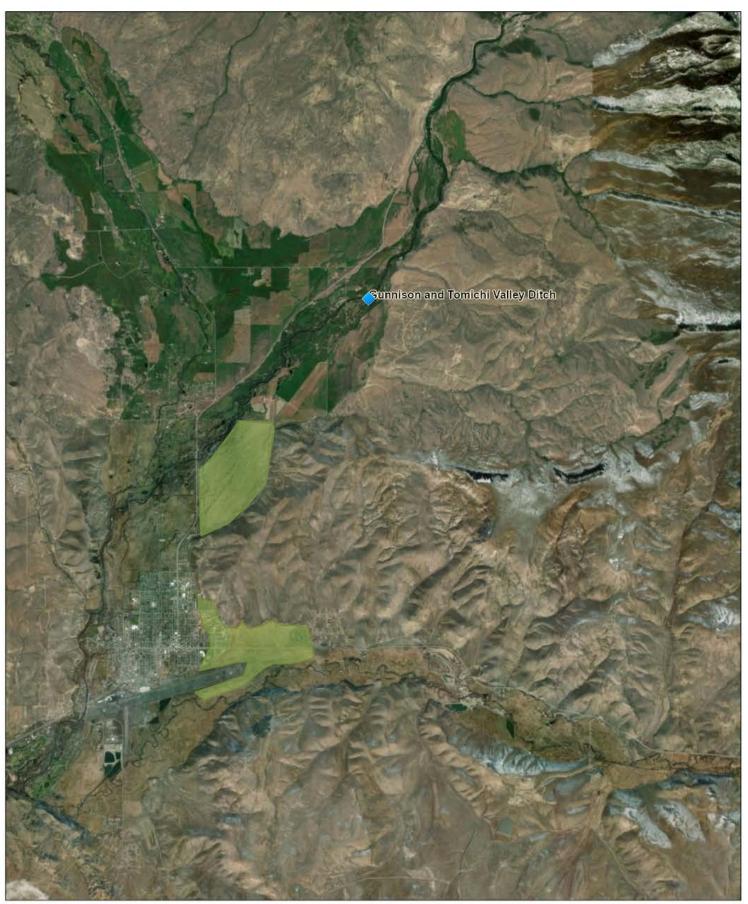
Gunnison and Tomichi Valley Ditch



February 28, 2020

1:2,257

Gunnison and Tomichi Valley Ditch Irrigated Area



February 28, 2020

1:72,224

K.R. Welding and Fabrication, LLC.

33 County Road 51 Gunnison, CO 81230 US 9702754455

krobbins2011@hotmail.com

ADDRESS

Jesse Kruthaupt **Trout Unlimited** 604 Elsa Ct. Gunnison, CO 81230

ESTIMATE #	DATE	
1029	02/27/2020	

Estimate

Gunnison and Tomichi Valley Assoc. Ditch

ACTIVITY	QTY	RATE	AMOUNT
Trucking Mobilization of equipment, materials and supplies to diversion job	1	500.00	500.00
Material 40 yards concrete in place, 6" thick walls 6' tall with 3' wide footers 1' thick, concrete slab at the height of existing ditch bottom 6" thick, wing wall from current head gate structure to culvert crossing C.R.9	1	24,000.00	24,000.00
Welding Fabrication, welding and material of two new head gates to replaced existing worn out gates.	1	2,500.00	2,500.00
Welding Fabrication and welding of new 10 wide spill way gate	1	5,500.00	5,500.00
Welding Fabrication and welding of an 8' wide by 10' long ATV bridge that is also to be used as the platform to adjust the spillway gate.	1	1,500.00	1,500.00
Machinery Hours Machinery hours to excavate spillway, regrade bottom of ditch for the slab and excavate for the wing wall back to the county road. Back fill and clean up, set steel and bridge	1	7,400.00	7,400.00
Welding On site welding and fabrication	1	950.00	950.00
Machinery Hours Machinery hours, labor and 20' of 24" culvert to extend already in place culvert to ensure a better seal of that ditch	1	1,200.00	1,200.00

Accepted By

Accepted Date