

### 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 National Forest F		Foundation
Name of Water Project	Taylor Park, Gu Stream Restora	nnison County, Watershed Erosion Control and tion
CWP Grant Request Amount		\$10,000
Other Funding Sources Gunnison County (supplying boulders, cash value)		\$3,000
Other Funding Sources US Forest Service (cash \$1,000, in-kind 6,000)		\$7,000
Other Funding Sources Gunnison Valley O.H.V Alliance of Trailriders (The GOATs) (\$1,00 in-kind, \$1,000 cash pending)		\$2,000
Applicant Funding Contribution		\$1,000
Total Project Cost		\$23,000



Applicant & Grantee Information

Name of Grantee(s): National Forest Foundation

Mailing Address: 390 Union Blvd, Ste 400, Denver, CO 80228-1556

FEIN: 52-1786332

Organization Contact: Emily Olsen

Position/Title: Colorado Program Manager

Email: eolsen@nationalforests.org

Phone: 720-219-0682

Grant Management Contact: Emily Olsen

Position/Title: Colorado Program Manager

Email: eolsen@nationalforests.org

Phone: 720-219-0682

Name of Applicant

(if different than grantee)

**Mailing Address** 

Position/Title

Email

Phone

### Description of Grantee/Applicant

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



Chartered by Congress, the National Forest Foundation was created in 1993 with a simple mission: bring people together to restore and enhance our National Forests and Grasslands. As the nonprofit partner of the U.S. Forest Service, we work with the agency and public each year to promote the health and enjoyment of our 193-million-acre National Forest System. We believe that communities should play a leading role in determining the future of our Forests, so we focus our efforts on connecting these communities, and the people who comprise them, to the tools, knowledge, and funding to become active and devoted stewards.

	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.
X	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.

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

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



Last Updated: N	lovember	201	8
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	recharge, Multi-bene the water s	rage - Projects that facilitate the development of additional storage, artificial aquifer and dredging existing reservoirs to restore the reservoirs' full decreed capacity and ficial projects and those projects identified in basin implementation plans to address supply and demand gap  Exhibit A Task(s):
	strategies	ion and Land Use Planning - Activities and projects that implement long-term for conservation, land use, and drought planning.  Exhibit A Task(s):
	innovation	ent & Innovation - Activities and projects that support water education, outreach, and efforts. Please fill out the Supplemental Application on the website.  Exhibit A Task(s):
		l - Projects that provide technical assistance and improve agricultural efficiency.  Exhibit A Task(s):
×	recreation.	ental & Recreation - Projects that promote watershed health, environmental health, and Exhibit A Task(s):
х	Other	Explain: Meeting the Clean Water Act and preventing streams in the project area from becoming listed as a 303d impaired stream for sedimentation issues. Also Closing 10 miles of illegal routes.

	Location of Water Project
	eral county and coordinates of the proposed project below in <b>decimal degrees</b> . o provide, in Exhibit C, a site map if applicable.
County/Counties	Gunnison County
Latitude	38°49'17.78"N
Longitude	106°33'8.70"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, which has broad support from local government and the Forest Service, will address Illegal roads and routes created by Off-Highway Vehicles (OHVs) in the Taylor Park area of Gunnison County, Colorado – one of the largest threats to clean water in Gunnison County. Every year, OHVs create dozens of illegal routes, leading to extensive erosion and problematic stream crossings across this important landscape. We propose to close the routes with signs and boulders, and then restore the road bed to a natural state. To accomplish the work, we will employ an excavator to close the road bed, followed by seeding with native seed mixes. We will repair the stream crossings with boulder work and willow transplants. See exhibit C for photo examples of the types of illegal routes we are looking to close.

		Measurable Results		
To catalog measurable values as applicable:	results achie	ved with the CWP Grant funds, please provide any of the following		
	New Sto	orage Created (acre-feet)		
AND CONTRACT THE		nual Water Supplies Developed or Conserved (acre-feet), nptive or Nonconsumptive		
	Existing	Storage Preserved or Enhanced (acre-feet)		
X 300'	Length	of Stream Restored or Protected (linear feet)		
	Efficience	cy Savings (indicate acre-feet/year OR dollars/year)		
X 50 acres	Area of	Restored or Preserved Habitat (acres)		
	Quantity	Quantity of Water Shared through Alternative Transfer Mechanisms		
		r of Coloradans Impacted by Incorporating Water-Saving Actions and Use Planning		
84.908.000 00 008.0000	Number	r of Coloradans Impacted by Engagement Activity		
x	Other	Explain: Meeting the Clean Water Act and preventing streams in the project area from becoming listed as a 303d impaired stream sedimentation issue. Also Closing 10miles of illegal routes.		



### **Water Project Justification**

Provide a description of how this water project supports the goals of <u>Colorado's Water Plan</u>, the most recent <u>Statewide Water Supply Initiative</u>, and the applicable Roundtable <u>Basin Implementation Plan</u> and <u>Education Action Plan</u>. 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;)

As emphasized in Chapter 1 of Colorado's Water Plan, this is a collaborative project that will compliment two of the three values listed in the same chapter: "Efficient and effective water infrastructure promoting smart land use; and a strong environment that includes healthy watersheds, rivers and streams, and wildlife." (Chapter 1, page 6 CWP)

Additionally, this project will protect existing uses in the Gunnison Basin, including recreation and tourism near Taylor Park, a major economic driver for the Gunnison Basin, thereby achieving goal number one of the Gunnison Basin Implementation Plan.

This project will also compliment goal number 5 of the Gunnison BIP; Quantify and protect environmental and recreational water uses.

As mentioned on page 20 of the Gunnison BIP under Water Related Recreation; the Gunnison basin supports a "robust recreational economy, much of which is tied directly to water." This project will help support and protect this vital segment of the economy.

### **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.

The Gunnison Angling Society, a local chapter of Trout Unlimited, has submitted a 2019 grant application to the CWCB titled 'Addressing Water Quality with a Vault Toilet at Cottonwood Pass Day Use Area'. The TU grant and this one are complementary to each other in that they both address water quality issues associated with recreation in the same Taylor Park watershed. The combination of these two grants would add a comprehensive approach to restoring watershed health to the area as a whole.

# 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.

National Forest Foundation, Camp Hale – Eagle River Headwaters, Chris Sturm, CWCB board meeting date of 10-31-13, PO number OE PDA 14000000048.

No other CWCB funding was received to support the project. The \$20,000 grant represented 28% of the total project cost.

# Taxpayer Bill of Rights

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.

N/A



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

<sup>(1)</sup> Required with application.

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



### ENGAGEMENT & INNOVATION GRANT FUND SUPPLEMENTAL APPLICATION

### Introduction & Purpose

Colorado's Water Plan calls for an outreach, education, public engagement, and innovation grant fund in Chapter 9.5.

The overall goal of the Engagement & Innovation Grant Fund is to enhance Colorado's water communication, outreach, education, and public engagement efforts; advance Colorado's water supply planning process; and support a statewide water innovation ecosystem.

The grant fund aims to engage the public to promote well-informed community discourse regarding balanced water solutions statewide. The grant fund aims to support water innovation in Colorado. The grant fund prioritizes measuring and evaluating the success of programs, projects, and initiatives. The grant fund prioritizes efforts designed using research, data, and best practices. The grant fund prioritizes a commitment to collaboration and community engagement. The grant fund will support local and statewide efforts.

The grant fund is divided into two tracks: engagement and innovation. The Engagement Track supports education, outreach, communication, and public participation efforts related to water. The Innovation Track supports efforts that advance the water innovation ecosystem in Colorado.

## **Application Questions**

\*The grant fund request is referred to as "project" in this application.

Overview (answer for both tracks)
In a few sentences, what is the overall goal of this project? How does it achieve the stated purpose of this grant fund (above)?
Who is/are the target audience(s)? How will you reach them? How will you involve the community?
Describe how the project is collaborative or engages a diverse group of stakeholders. Who are the partners in the project? Do you have other funding partners or sources?



Overview (answer for both tracks)
Describe how you plan to measure and evaluate the success and impact of the project?
What research, evidence, and data support your project?
Describe potential short- and long-term challenges with this project.

Please fill out the applicable questions for either the Engagement Track or Innovation Track, unless your project contains elements in both tracks. If a question does not relate to your project, just leave it blank. Please answer each question that relates to your project. Please reference the relevant documents and use chapters and page numbers (Colorado's Water Plan, Basin Implementation Plan, PEPO Education Action Plan, etc.).

# Describe how the project achieves the education, outreach, and public engagement measurable objective set forth in Colorado's Water Plan to "significantly improve the level of public awareness and engagement regarding water issues statewide by 2020, as determined by water awareness surveys." Describe how the project achieves the other measurable objectives and critical goals and actions laid out in Colorado's Water Plan around the supply and demand gap; conservation; land use; agriculture; storage; watershed health, environment, and recreation; funding; and additional. Describe how the project achieves the education, outreach, and public engagement goals set forth in the applicable Basin Implementation Plan(s).



Last Updated: November 2018
Describe how the project achieves the basin roundtable's PEPO Education Action Plans.
Innovation Track
Describe how the project enhances water innovation efforts and supports a water innovation ecosystem in Colorado.
Describe how the project engages/leverages Colorado's innovation community to help solve our state's water challenges.
Describe how the project helps advance or develop a solution to a water need identified through TAP-IN and other water innovation challenges. What is the problem/need/challenge?
Describe how this project impacts current or emerging trends; technologies; clusters, sectors, or groups in water innovation.



### **Colorado Water Conservation Board**

### Water Plan Grant - Exhibit A

30000	Statement Of W	ork				
Date:	1/31/2019					
Name of Grantee:	National Forest Foundation					
Name of Water Project:	Taylor Park. Gunnison County. Watershed Erosion Control and Stream Restoration					
Funding Source:	CWP Grant Request Amount	\$10,000				
	Other Funding Sources Gunnison County (supplying boulders, cash value)	\$3,000				
	Other Funding Sources US Forest Service (cash \$1,000, in-kind 6,000)	\$7,000				
	Other Funding Sources Gunnison Valley O.H.V Alliance of Trailriders (The GOATs) (\$1,00 in-kind, \$1,000 cash pending)	\$2,000				
	Applicant Funding Contribution	\$1,000				
	Total Project Cost	\$23,000				

### **Water Project Overview:**

This project, which has broad support from local government and the Forest Service, will address Illegal roads and routes created by Off-Highway Vehicles (OHVs) in the Taylor Park area of Gunnison County, Colorado – one of the largest threats to clean water in Gunnison County. Every year, OHVs create dozens of illegal routes, leading to extensive erosion and problematic stream crossings across this important landscape. We propose to close the routes with signs and boulders, and then restore the road bed to a natural state. To accomplish the work, we will employ an excavator to close the road bed, followed by seeding with native seed mixes. We will repair the stream crossings with boulder work and willow transplants. See exhibit C for photo examples of the types of illegal routes we are looking to close.

Project	ct (	)bi	ectiv	es:
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The objectives of the project are close illegal routes to achieve:

- Reduction in sedimentation delivery to streams
- Repair illegal stream crossing to native state and reduce bank erosion
- Reduce habitat fragmentation of the landscape
- Reduce redundant travel paths
- Reduce road density and disruption to the flow paths
- Revegetate bare ground to improve precipitation infiltration
- Repair viewshed from a scaring illegal travel routes

Tasks
Task 1 – Closure of illegal routes with excavator, signs and boulders
Description of Task:
Close and restore to natural illegal routes made by OHVs. Ideally these illegal routes would be invisible on the landscape within several years, after vegetation establishes and erosion is stopped.
Method/Procedure:
NFF will subcontract the work to the USFS. The USFS will rent heavy equipment appropriate for the job. Mostly a mini excavator will "rip" the road - break up the compacted top soil and seed the area with a native seed mix. Water bars will also be built on steep routes to stop erosion from occurring on the ripped route. Boulders will be placed at the entrance of the illegal route to discourage OHVs from driving down the closed route. Educational signs will also be used to show open and closed routes for the education of the public.
Deliverable:



Tasks							
The closure an	d restoration of	10 miles of ille	gal routes.	See photos is	n exhibit C fo	or more detai	ils.
			•	•			

Tasks
Task 2 - Restore illegal stream crossing
Description of Task:
Several of the illegal routes cross headwater streams. These unmaintained stream crossings have eroding banks, contributing unwanted sediment to the stream and loss of stream bank vegetation. See image 3 from appendix C for a visual of the damaged stream crossing.
Method/Procedure:



### Tasks

This work we be done by the USFS with a mini excavator and a front loader. A mini excavator will be used to close the illegal routes coming into and out of the stream crossing. A front loader will place boulders on both sides of the stream to further keep vehicles from crossing. Willows will be planted to stabilize bare soil.

### Deliverable:

We will restore 300' of stream banks. This will include restoring 2 illegal stream crossings and an illegal route that follows a wetland/stream. Also, people have dredged a channel, diverting water from the main stream of a small stream to create a wet single track for dirt bikes to ride up. We would use heavy equipment to fill in this channel and block the point of diversion, returning flow to the stream.

Repeat for Task 3, Task 4, Task 5, etc.

### **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.



### **Reporting Requirements**

**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 - Detailed Budget Estimate Fair and Reasonable Estimate

Prepared Date: 1-31-19

Name of Applicant: National Forest Foundation

Name of Water Project: Taylor Park, Gunnison County, Watershed Erosion Control and Stream Restoration

						Matching
Sub-task	Unit	Quantity	<b>Unit Cost</b>	Total Cost	CWCB Funds	Funds
Heavy Equipment Rental & Road/Route Ripping	LS	1	\$12,000	\$12,000	\$9,250	\$2,75
Boulder Procurement & Placement	LS	1	\$3,000	\$3,000	\$0	\$3,00
Signage Design & Printing	LS	1	\$1,000	\$1,000	\$0	\$1,00
Task 2 - Restore Illegal Stream Crossing						
Heavy Equipment Rental & Restoration Work	LS	1	\$3,750	\$3,750	\$0	\$3,750
Nillow Procurement & Placement	LS	1	\$1,500	\$1,500	\$0	\$1,500
ndirect Project & Program Costs				\$2,650	\$1,650	\$1,000

# Photos and Description of the Project Area Taylor Park, Gunnison County, Colorado



Image 1. Photo of an illegal route on hillside. The hillside has a long path of erosion and a large sediment plume at the bottom of the route. We would use heavy equipment to break up the compacted route, re-seed and install water bars. We would also close this route from the top and bottom with large boulders and close signs. Just downhill of this photo is a headwater stream that feeds into an important wetland called a Fen.



Image 2. Another user created route. The entire route in this photo is illegal and will be restored to natural state. Erosion can be seen on the right side of the road.



Image 3. This is a photo of an illegal stream crossing. We would heavy equipment to close the road, by ripping the road bed and transplanting willows. We would place 6-8 large boulders to further discourage OHVs from crossing the stream. We would also transplant willows to protect the stream banks, decrease erosion and narrow up the stream to its historical width.



Image 4. This is a photo was taken near the stream shown in photo 3. People have dredged a channel, diverting water from the main stream to this small channel, to create a wet single track for dirt bikes to ride up. We would use heavy equipment to fill in this channel and block the point of diversion.



Image 5. This is just downstream of photos 3 and 4. Make note of the wetlands on the left side of the photo. The entire road in photo right is illegal. We would use heavy equipment to close the route and rehab the wetland adjacent. The USFS does not allow camping within 100' of water. This area will also be signed with a 'no camping' sign to keep people from camping in the wetlands.



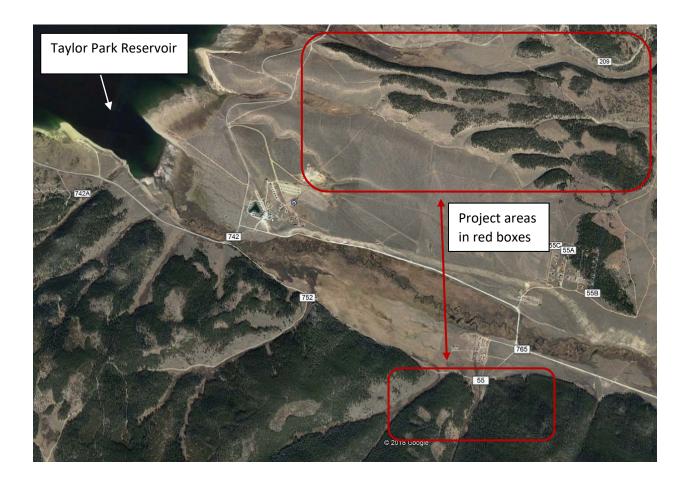
Image 6. Another example of an illegal route in the project area that needs to be closed and brought back to a natural state. We would use heavy equipment and rip the road and build water bars to prevent further erosion. There is a stream at the bottom of this hill and sediment is going directly into the stream.



Image 7. While it might be hard to believe, this entire route in the photo is a user created, illegal route. We would use heavy equipment to rip the road and reseed. We would also use large boulder to close both ends of the routes and sign with closer signs.



Image 8. Just another road in the project area that is to be closed. Note the erosion coming down the road. We use heavy equipment to close and build in water bars.





# United States Department of Agriculture Grand Mesa, Uncompandere & Gunnison National Forests Gunnison Ranger District 216 N. Colorado St. Gunnison, Co 81230



January 31, 2019

Colorado Water Conservation Board Water Plan Grant application

<u>Support of the National Forest Foundation Grant Application 'Taylor Park, Gunnison County, Watershed</u> Erosion Control and Stream Restoration

The US Forest Service is in full support of the National Forest Foundation Grant Application to the CWCB. We are willing to provide \$1,000 in cash for the project and \$6,000 in-kind. For the in-kind portion, we will perform the NEPA and provide a signed Decision Memo to be compliant with law. We will also implement the project using rented heavy equipment, Gunnison County boulders, and we will provide the signs.

Closing user created routes is extremely high priority for our district. We understand the negative environmental impacts of high road density on a landscape. We are diligently working with partners to close illegal routes, especially those that have negative impacts to the watershed and water quality of headwater streams.

Thank you for your consideration,



Ashley Hom Forest Hydrologist and Land Manager

Forest Service Grand Mesa, Uncompangre & Gunnison National Forest (GMUG)

p: 970-642-4406 c: 406-599-4357 ashleyhom@fs.fed.us 216 N. Colorado St GUNNISON, CO 81230 www.fs.fed.us

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