

Last Updated: November 2018

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	Anna.Mauss@state.co.us
Conservation, Land Use Planning	Kevin.Reidy@state.co.us
Engagement & Innovation Activities	Ben.Wade@state.co.us
Agricultural Projects	Alexander.Funk@state.co.us
Environmental & Recreation Projects	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 Project Summary

Name of Applicant

Trout Unlimited



Last Updated: November 2018

Name of Water Project	Cimarron Canal Diversion Gate Replacement and Water Management Planning Project	
CWP Grant Request Amount		\$ 18,918
Other Funding Sources: <u>U.S. Bureau of Reclamation, Water Smart Grant</u>		\$ 15,000
Other Funding Sources: <u>Gunnison Basin Roundtable- CWCB WSRF (applied Feb. 1)</u>		\$ 11,500
Other Funding Sources: <u>Cimarron Canal and Reservoir Company in-kind (labor)</u>		\$ 1,000
Applicant Funding Contribution: In-kind (labor)		\$ 500
Total Project Cost		\$ 46,918

Applicant & Grantee Information

Name of Grantee: Trout Unlimited
Mailing Address: 1777 N. Kent Street Suite 100, Arlington VA 92001
FEIN: 38-1612715
Organization Contact: Cary Denison
Position/Title: Project Manager
Email: cdenison@tu.org
Phone: 970-596-3291
Grant Management Contact: Danielle Typinski
Position/Title: Grants Compliance Officer
Email: dtypinski@tu.org
Phone: (703) 284-9429
Name of Applicant



Last Updated: November 2018

(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).
<p>Trout Unlimited (TU) is the nation's largest coldwater conservation organization with approximately 150,000 volunteers and roughly 277 employees nationwide working to protect, reconnect, restore and sustain America's fisheries. TU's volunteers and their local chapter groups work on a variety of initiatives that meet the unique needs of their watersheds.</p> <p>TU's focus in the Gunnison Basin is to find win-win solutions to water supply and infrastructure issues by collaborating with water users.</p>

Type of Eligible Entity (check one)	
<input type="checkbox"/>	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.
<input type="checkbox"/>	Public (Districts): Authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises.
<input type="checkbox"/>	Private Incorporated: Mutual ditch companies, homeowners associations, corporations.
<input type="checkbox"/>	Private Individuals, Partnerships, and Sole Proprietors: Private parties may be eligible for funding.

Last Updated: November 2018

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 .

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

Category of Water Project (check the primary category that applies and include relevant tasks)	
	<p>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.</p> <p><i>Applicable Exhibit A Task(s):</i></p>
	<p>Conservation and Land Use Planning - Activities and projects that implement long-term strategies for conservation, land use, and drought planning.</p> <p><i>Applicable Exhibit A Task(s):</i></p>
	<p>Engagement & Innovation - Activities and projects that support water education, outreach, and innovation efforts. Please fill out the Supplemental Application on the website.</p> <p><i>Applicable Exhibit A Task(s):</i></p>
	<p>Agricultural - Projects that provide technical assistance and improve agricultural efficiency.</p> <p><i>Applicable Exhibit A Task(s):</i></p>

Last Updated: November 2018

X	<p>Environmental & Recreation - Projects that promote watershed health, environmental health, and recreation.</p> <p><i>Applicable Exhibit A Task(s): Installation of a new automatic headgate used to maintain flows as prescribed by modeling to meeting Environmental flow targets on the Big Cimarron River.</i></p>	
	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/Countries	Gunnison
Latitude	38.26619
Longitude	-107.5422

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.

Last Updated: November 2018

Bostwick Park Conservancy District (BPWCD) in collaboration with Trout Unlimited are proposing to use Water Plan grant funds in with other funding to replace an antiquated water control gate on the Cimarron canal diversion, connect the new gate to SCADA, and complete flow modeling to assist with operations.

The Cimarron Canal (WDID 6200560) is the largest diversion on the Big Cimarron river and has nearly completely dried up the river on dry years. Downstream water rights including irrigation and CWCB instream flow rights depend on steady dependable flows.

In 2018 Trout Unlimited worked with BPWCD and CPW to bolster flows below the diversion by releasing water from a storage pool in Silver Jack Reservoir that was shepherded downstream. The [effort](#) doubled flows to 14cfs and helped keep water temperatures in ranges suitable for trout.

The proposed improvement will allow for downstream rights, including CWCB in-stream rights, to be met without the need for manually measuring and releasing water at the diversion structure.

This project is multi-purpose and will benefit environmental and consumptive uses.

Water Plan funds will be used for engineering, installation of SCADA, and flow modeling for water management planning.

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)
1,100 acre-feet	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive
	Existing Storage Preserved or Enhanced (acre-feet)
14 miles	Length of Stream Restored or Protected (linear feet)
800 acre-feet and \$600	Efficiency Savings (indicate acre-feet/year OR dollars/year)
>34 acres riparian	Area of Restored or Preserved Habitat (acres)
	Quantity of Water Shared through Alternative Transfer Mechanisms

Last Updated: November 2018

	Number of Coloradans Impacted by Incorporating Water-Saving Actions into Land Use Planning	
	Number of Coloradans Impacted by Engagement Activity	
	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;)

This project conforms to and compliment Colorado's Water Plan Framework and the Gunnison Basin Implementation Plan in the following ways:

Collaboration, which is encouraged and emphasized in Chapter 1 of the Water Plan, is the driving force behind this project.

This project will improve efficiency to meet multiple goals including the following from chapter 1 of the Water Plan; "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)

Installation of improved water measurement and controls at the Cimarron Canal diversion will help water managers react to variable flow conditions, which is mentioned in Chapter 4 of the Water Plan as a future challenge. Chapter 6.2, Water Supply Management, mentions that the Gunnison Basin has agricultural water shortages. BPWCD and partners like TU are working on improving irrigation system efficiency to address shortages throughout the watershed. Automated controls at the headgate will assist this effort.

As mentioned on page 15 of Chapter 5, Water Demands of the Water Plan, scientists predict that increasing temperatures, as a result of climate change, will reduce cold-water habitat for trout. Modifying the diversion will maintain flows and temperatures suitable for a healthy fishery.

Last Updated: November 2018

This project, particularly the modeling and planning tasks, will serve as building block for future water conservation projects such as voluntary demand management or ag to ag leases which have been considered by shareholders in the Bostwick Park Conservancy District.

Cimarron River is listed as a focus segment on page 72 of the Gunnison Basin Implementation Plan.

In section 2.4 Environmental Needs of the Basin Implementation Plan, riparian/wetland wildlife viewing and waterfowl hunting, and significant cold and water-water fishing are listed as Non-consumptive needs priorities for the Gunnison Basin. This project will result in those needs being satisfied more often.

This project will help the State of Colorado, local water users and interest groups meet the following goals listed on page 4 of Chapter 10 of the Water Plan:

1. A productive economy that supports vibrant and sustainable cities; viable and productive agriculture; and a robust skiing, recreation, and tourism industry.
2. Efficient and effective water infrastructure; and
3. A strong environment that includes healthy watersheds, river, streams and wildlife.

The following goals established by the Gunnison Basin Roundtable in their Basin Implementation Plan will be met by the project:

1. (1) Protect existing water rights in the Gunnison Basin
2. (5) Quantify and protect environmental and recreational water uses.
3. (7) Describe and encourage the beneficial relationship between agriculture and environmental and recreational uses.
4. (8) Restore, maintain, and modernize critical water infrastructure including hydropower.
5. (9) Create and maintain active, relevant and comprehensive public education, outreach and stewardship processes involving water resources in the six sectors of the Gunnison Basin.

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.

Last Updated: November 2018

This Cimarron Watershed was included in the Lower Gunnison Watershed Plan completed in 2018 in support of the NRCS Regional Conservation Partnership Program.

SCADA Master Plan and Feasibility Study, JUB Engineer, October 2018. CWCB Funding RCPP Technical Assistance \$9,450.

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.

Trout Unlimited, Wilbur Ditch Reconstruction, WSRF request \$10,500 basin funds and \$10,000 from State, approved by Gunnison Basin Roundtable 1/21/2019.

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.

None



Last Updated: November 2018

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

Last Updated: November 2018

Colorado Water Conservation Board	
Water Plan Grant - Exhibit A	

Statement Of Work	
Date:	1/25/19
Name of Grantee:	Trout Unlimited
Name of Water Project:	Cimarron Canal Diversion Gate Replacement and Water Management Planning Project
Funding Source:	Colorado Water Plan Grant – Environmental
Water Project Overview:	
This project, when implemented, will replace an antiquated and nearly unusable diversion gate structure with a new gate. This project will also provide SCADA (supervisory control and data acquisition) capabilities to the gate to allow for automatic and remote controls and will provide water management planning and engineering that will direct the operations of the gate.	
Project Objectives:	
<ol style="list-style-type: none"> 1. Maintain and improve consistent streamflow downstream of the Cimarron Canal diversion structure. 2. Meet water demands below the Cimarron Canal including CWCB instream flow rights. 3. Reduce time, labor and mileage for Bostwick Park and Cimarron Canal and other agency and non-profit staff associated with managing diversions and streamflow below the diversion. 	

Tasks
Task 1 – Engineering design review
Description of Task:
Engineers hired by TU and BPWCD will review the designs of the control gate and make any necessary changes.

Last Updated: November 2018

Tasks
Method/Procedure:
Engineers will evaluate the considered control gate infrastructure for structural integrity and to confirm that it will meet the goals of the project.
Deliverable:
Specifications and design notes specific to the design of the control gate will be provided to funding parties and other project partners.

Tasks
Task 2 – Supervisory Control and Data Acquisition
Description of Task:
BPWCD with assistance from Mountain Controls will connect the new water control structure to existing SCADA system at the diversion works of the Cimarron Canal.
Method/Procedure:
New wiring and conduit will connect the controls of the diversion control gate to the existing control panel and communication links that exist at the diversion works. The new gate will be programmed to be operated and monitored along with the other measurement and control devices at the diversion.
Deliverable:
A diversion gate which will automatically release water as programmed by BPWCD to meet downstream flow needs. Remote control of the structure which will allow BPWCD to monitor and control the gate from remote locations.

Tasks
Task 3 – Modeling
Description of Task:
JUB Engineers who've been assisting BPWCD with water efficiency and SCADA project over the past several years will create recommendations for operations of the new control structure.
Method/Procedure:

Last Updated: November 2018

Tasks
By evaluating past years water supply and water demand data using CDSS information in the Cimarron watershed JUB will be able to determine optimal flow levels for a variety of water supply scenarios.
Deliverable:
A report that summarizes recommendations for operations of the new canal gate to best meet downstream needs while meeting the demands within the Cimarron Canal system.

Tasks
Task 4 – Project Management
Description of Task:
Trout Unlimited will provide project management related to completing these tasks and this project.
Method/Procedure:
TU staff will work on each stage of this project to direct all involved parties toward successful completion while recording all major milestones.
Deliverable:
General grant management related to completing the project. Project reporting including financial reports summarizing expenditures and matching funds. Project reports will include photos of major milestones, engineer memos or reports, and descriptions of major obstacles encountered and results of completed project.

Budget and Schedule
Budget and Schedule provided separately.

Colorado Water Conservation Board
Water Plan Grant - Detailed Budget Estimate

Prepared Date: 12/28/2018
Name of Applicant: Trout Unlimited
Name of Water Project: Cimarron Canal diversion Gate Replacement and Flow Modeling

Construction

Task Start Task End

Task 1 -

Construction/Fabrication

June, 2019 Oct., 2019

					CWCB WSRF	CWCB WP	WaterSmart
Sub-task	Unit	Quantity	Unit Cost	Total Cost	Funds	Funds	Funds
Knife-gate construction	LS	1	\$14,500.00	\$14,500.00	\$7,250.00	\$ -	\$7,250.00
Installation	EA	1	\$2,142.90	\$2,142.90	\$1,346.00	\$ -	\$797.00
NEPA/Cultural	EA	1	\$2,000.00	\$2,000.00		\$ -	\$2,000.00
Engineering design review	EA	1	\$2,500.00	\$2,500.00	\$1,250.00	\$1,250.00	\$0.00
SCADA	LS	1	\$10,000.00	\$10,000.00		\$5,200.00	\$4,800.00
Equipment Rental	LF	5	\$61.50	\$307.50	\$154.00	\$ -	\$153.00
Task 1- Totals				\$31,450.40	\$10,000.00	\$ 6,450	\$15,000.00

Task 2 - Modeling

June, 2019 Jan., 2019

Flow Modeling and Water Management Planning	LF	40	\$250.00	\$10,000.00		\$10,000	
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Task 3 - Grant/Project Management Overhead

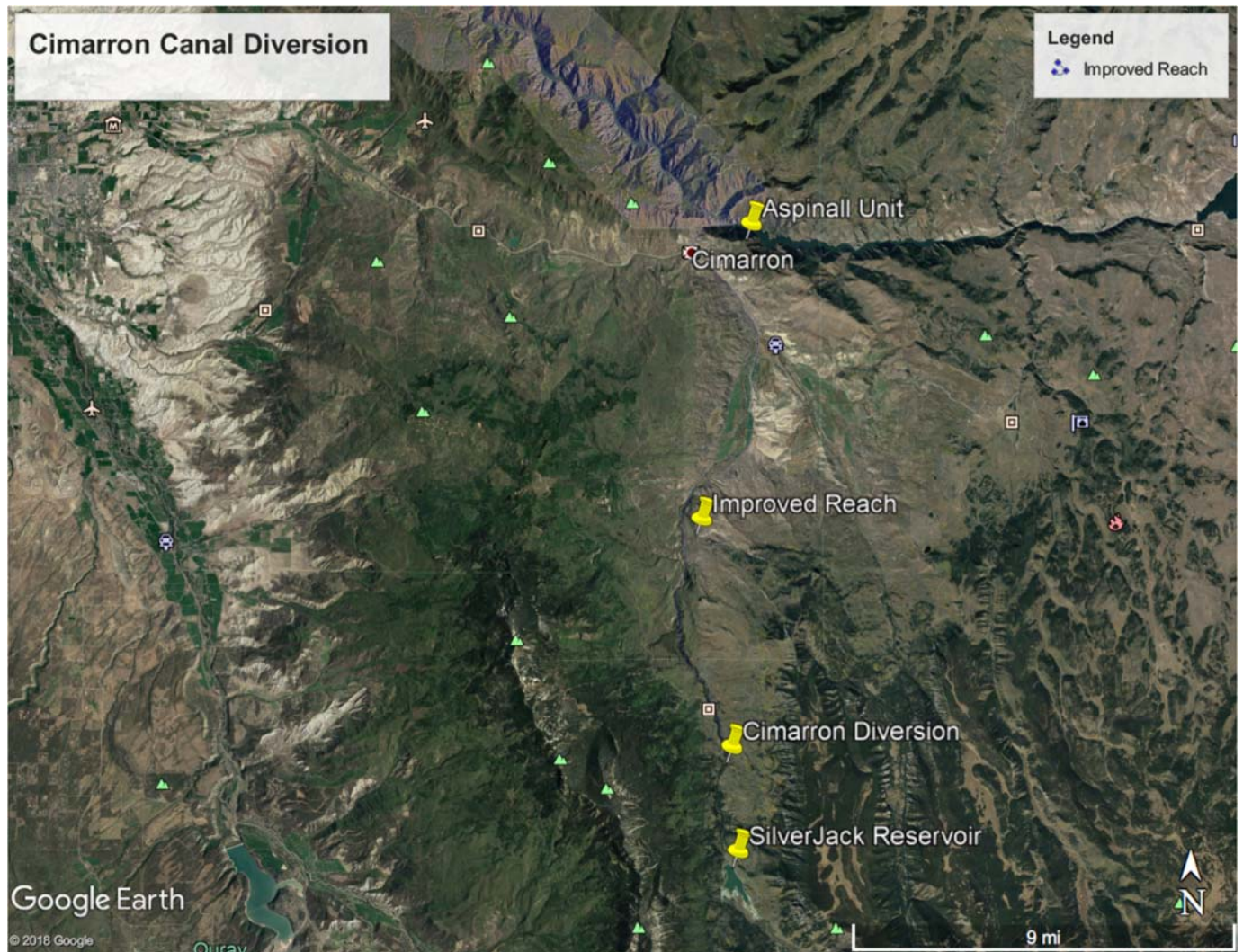
\$3,967.50 \$1,500.00 \$ 2,467.50

June, 2019 July, 2020

Contributions per organization					\$11,500.00	\$ 18,918	\$15,000.00
Funding Org. Percentages					25%	42%	33%
TOTAL CASH COST							\$45,418

In-Kind Contributions	Description	Amount
Bostwick Park/Cimarron		
Canal Company	Labor	\$1,000
Trout Unlimited	Labor	\$500
Total		\$1,500

TOTAL PROJECT COST \$46,918





COLORADO

Parks and Wildlife

Department of Natural Resources

2300 S. Townsend Avenue
Montrose, CO 81401
P 970.252.6017 | F 970.252.6053

January 29, 2019

Mr. Chris Sturm
Colorado Water Conservation Board - Water Plan Grant
1313 N. Sherman Street, Suite 718
Denver, CO 80203

Dear Mr. Sturm,

This letter is to inform you of Colorado Parks and Wildlife's support for the Cimarron Canal Diversion Gate Replacement and Water Management Planning Project, submitted by the Trout Unlimited.

I have reviewed the proposed infrastructure project, and I believe that this project provides considerable benefits including improving and maintaining flows in the Cimarron River which are critical to supporting the coldwater fishery downstream of the Cimarron canal diversion. Colorado Parks and Wildlife is working collaboratively with Bostwick Park Water Conservancy District to administer flows from Silverjack Reservoir past the Cimarron Canal Diversion to benefit stream flows in the Cimarron River downstream. This project will aid in these efforts to maintain and enhance the fishery in the Cimarron River.

Sincerely,

Eric Gardunio
Aquatic Biologist
Lower Gunnison River Basin
Colorado Parks and Wildlife
Eric.gardunio@state.co.us





United States Department of the Interior

BUREAU OF RECLAMATION
PO Box 25007
Denver, Colorado 80225-0007

IN REPLY REFER TO:

84-27814

November 8, 2018

1.3.11

VIA ELECTRONIC MAIL

Bostwick Park Water Conservancy District
Attn: Mr. Allen Distel
400 South 3rd
Montrose, CO 81401-4204

Subject: Funding Opportunity Announcement (FOA) No. BOR-DO-18-F009 – WaterSMART Grants:
Small-Scale Water Efficiency Projects for Fiscal Year (FY) 2018 – Application Review Status,
Your Application Titled, “Automatic Control Gate for Cimarron Diversion (SWEP-025)”

Dear Mr. Distel:

Thank you for submitting a WaterSMART Grants: Small-Scale Water Efficiency Projects application. The Bureau of Reclamation is pleased to inform you that your application was among those receiving the highest ratings and is now being considered for award of a financial assistance agreement. Reclamation anticipates awarding Federal funds in the amount of \$15,000 for your proposed project. In working with you to develop your financial assistance agreement, Reclamation will closely review the activities outlined in your proposal to ensure that all activities are eligible for funding and that the proposed costs are allowable under financial assistance regulations. If some costs or activities are determined to be ineligible or unallowable, Reclamation will work with you to refine the scope of work and budget for the project.

Please note that this letter is not a final commitment of funding. A financial assistance agreement will not be executed, and funds will not be awarded until further information about your project is developed and all statutory and regulatory requirements have been met as described in Section E.2.5 of the FOA. In addition, Reclamation must have sufficient evidence prior to award that non-Federal cost share will be available. The final funding amount may be adjusted if necessary.

Please note that for costs, including pre-award costs, to be eligible for inclusion in the agreement, the costs must meet the applicable administrative and cost principles criteria established in 2 Code of Federal Regulations (CFR) Part 200. In particular, the procurement of goods and/or services must be compliant with the Procurement Standards (2 CFR §200.317 through §200.326) and contract costs must be compliant with 2 CFR §200.323 – Contract Cost and Price. A copy of the Procurement Standards, which include the contract cost and price regulations, and Appendix II from 2 CFR Part 200, which identifies mandatory contract content, are attached for your reference. The Federal financial assistance regulations can be found online at www.ecfr.gov.

Federal statute (42 U.S.C. 10364(a)(3)(B)) requires that before any funds are awarded, you agree not to use any water savings resulting from your proposed project to increase your total irrigated acreage or to otherwise increase the consumptive use of water in your operations. This requirement, which was discussed in Section F.2.3 of the FOA, will be included in the financial assistance agreement for your project.

Please be advised that your application has been ranked, in part, based on your description of the expected benefits of your project. Revisions to the scope of the project identified in your application can be made only after Reclamation determines that revisions would not impact the overall ranking or the expected benefits of the project.

In addition, please be advised as stated in Section F.4 of the FOA, we intend to post copies of successful Small-Scale Water Efficiency Projects grant applications as examples on Reclamation's website. While this generally does not raise any issues, we find it prudent to provide successful grant applicants with an opportunity to redact any sensitive information from their proposals prior to posting them on our website. As a rule, we remove the SF-424s; however, if there are any other items you would like to request be redacted, please let me know by Friday, December 7, 2018. Should we not hear from you by this date we will assume that there are no objections to posting the full application.

Thank you for your interest and participation in the WaterSMART Grants Program. If you have any questions about the program, please contact Ms. Robin Graber, Program Analyst, at rgraber@usbr.gov or 303-445-2764. We will contact you in winter 2018/2019 to discuss the timeline for the development and award of your financial assistance agreement.

Sincerely,



Irene M. Hoiby
Grants Officer