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Colorado Water Conservation Board

Water Plan Grant Application

Instructions

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

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

Supply and Demand Gap Projects: Gregory.Johnson@state.co.us

Water Storage Projects: Anna.Mauss@state.co.us

Conservation, Land Use Planning: Kevin.Reidy@state.co.us

Engagement & Innovation Activities: Mara.MacKillop@state.co.us

Agricultural Projects: Brent.Newman@state.co.us

Environmental & Recreation Projects: Linda.Bassi@state.co.us

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



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

Water Project Summary

Name of Applicant	Roaring Fork Conservancy	
Name of Water Project	River Center Education Programs	
CWP Grant Request Amount		\$50,000
Other Funding Sources	2017 Grants	\$28,000
Other Funding Sources	2017 Private Donations	\$10,000
Other Funding Sources	2017 Program Income	\$18,000
Applicant Funding Contribution		\$28,000
Total Project Cost		\$134,000

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Applicant & Grantee Information	
Name of Grantee(s)	Roaring Fork Conservancy
Mailing Address	PO Box 3349 Basalt, CO 81621
FEIN	98138510000
Organization Contact	Christina Medved
Position/Title	Watershed Education Director
Email	christina@roaringfork.org
Phone	(970) 927-1290
Grant Management Contact	Christina Medved
Position/Title	Watershed Education Director
Email	christina@roaringfork.org
Phone	(970) 927-1290
Name of Applicant (if different than grantee)	
Mailing Address	
Position/Title	
Email	
Phone	

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Description of Grantee/Applicant
<p>Provide a brief description of the grantee's organization (100 words or less).</p> <p>Roaring Fork Conservancy is an independent, §501(c)(3) not-for-profit organization. Since 1996, Roaring Fork Conservancy has inspired people to explore, value, and protect the Roaring Fork Watershed. We bring people together to protect our rivers and work to keep water in the streams, monitor water quality, and preserve riparian habitat. As one of the largest watershed organizations in Colorado, Roaring Fork Conservancy serves residents and visitors of the Roaring Fork Valley through school and community-based Watershed Education programs and Watershed Action projects, including regional watershed planning, water resource policy, and stream management and restoration initiatives.</p>

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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 .

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

Category of Water Project (check all that apply and include relevant tasks)	
	Supply and Demand Gap Projects - Multi-beneficial projects and those projects identified in basin implementation plans to address the water supply and demand gap. <i>Applicable Exhibit A Task(s):</i>
	Water Storage Projects - Projects that facilitate the development of additional storage, artificial recharge into aquifers, and dredging existing reservoirs to restore the reservoirs' full decreed storage capacity. <i>Applicable Exhibit A Task(s):</i>
	Conservation and Land Use Planning Projects - Activities and projects that implement long-term strategies for conservation, land use, and drought planning. <i>Applicable Exhibit A Task(s):</i>
X	Engagement & Innovation Projects - Activities and projects that support water education, outreach, and innovation efforts. Please fill out the Supplemental Application available on the website. <i>Applicable Exhibit A Task(s):</i> 1,2,3
	Agricultural Projects - Projects that provide technical assistance and improve agricultural efficiency. <i>Applicable Exhibit A Task(s):</i>
	Environmental & Recreation Projects – Projects that promote watershed health, environmental health, and recreation. <i>Applicable Exhibit A Task(s):</i>

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	Other	Explain:
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Location of Water Project

Please provide the general county and coordinates of the proposed project below in **decimal degrees**. The Applicant shall also provide, in Exhibit C, a site map if applicable.

County/Countries	Eagle, Pitkin, Garfield
Latitude	
Longitude	

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.

Roaring Fork Conservancy (RFC) is requesting funds to support water education programs in the Roaring Fork Watershed that align with Roaring Fork Watershed Plan, Colorado Basin Implementation Plan (CBIP), and Colorado Water Plan (CWP) goals, reaching audiences of all ages. With the River Center under construction, RFC will soon be a regional and state hub for watershed-related education, research, policy, and collaboration. RFC's innovative goal of sharing and modeling the actions necessary for protecting our rivers and watershed require a significant amount of interaction with the public. We seek to extend our reach and impact through multiple avenues and coordinated efforts, ranging from school field trips and classes to college internships, from community stakeholder meetings to water professional workshops and seminars.

Using indoor classrooms alongside the outdoor environment, RFC will work to meet increasing demand for local and regional school programming, and provide mentorship to other watershed groups embarking on similar missions throughout the state. We also work closely with a strong network of citizen scientists, providing trainings and continuing education opportunities in river research and analysis.

Measurable Results

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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)	
	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive	
	Existing Storage Preserved or Enhanced (acre-feet)	
	Length of Stream Restored or Protected (linear feet)	
	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 by Incorporating Water-Saving Actions into Land Use Planning	
X	Other	Explain: Engagement and Innovation

Water Project Justification
<p>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).</p> <p>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;)</p> <p>Colorado's Water Plan sets an Education, Outreach and Innovation measurable objective to "significantly improve the level of public awareness and engagement regarding water issues statewide by 2020." With a mission that complements many aspects of Colorado's Water Plan (CWP) and the Colorado Basin Implementation Plan (CBIP), RFC's daily work helps bring the CWCB closer to achieving its goals. By engaging with Roaring Fork Valley residents and visitors, RFC has reached over 109,000 individuals in our 21 year tenure. RFC is seeking support from the CWCB to help meet the growing demand for Watershed Education programming, using our innovative programming and extensive reach to unite statewide stakeholders and community members around a common interest in water, building on the momentum and interest currently surrounding water issues in the state (CWP, xviii).</p> <p>RFC's work addresses the following Measurable Objectives outlined in Chapter 10.2 of Colorado's Water Plan:</p> <ul style="list-style-type: none"> • Conservation <ul style="list-style-type: none"> ○ RFC partnered with Ruedi Water and Power Authority to produce the Roaring Fork Watershed Regional Water Efficiency Plan, which includes the stipulation that all major municipal water providers in the Roaring Fork Valley produce or update individual efficiency plans. As a result / in response to meeting objectives of the Plan: RFC is working closely with the City of Aspen as it begins implementing its Water

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Efficiency Plan with a pilot Water Efficient Landscaping Ordinance in Summer 2017. RFC provided expertise on riparian areas and helped communicate the implications of this ordinance through our biannual newsletter, reaching over 6,000 people.

- RFC partnered with the Community Office for Resource Efficiency and the City of Aspen to produce two rain barrel workshops, where 40 participants learned about the new legislation and each received a rain barrel with instructions on installation and maintenance.
- RFC partnered with Roaring Fork Leadership, Pitkin County Open Space and Trails, and City of Aspen to provide a Riparian Workshop to local landscapers, realtors, and property owners. This was the first workshop of its kind on the western slope, and drew over 40 participants from around the state.
- **Agriculture**
 - RFC continues to build relationships within the Roaring Fork Valley's agricultural community, including key stakeholder collaboration for the Crystal River Management Plan Report and Implementation projects. To communicate key elements of this collaboration and the Plan, RFC provides informative site tours to collegiate and graduate programs and multiple in-state groups including CFWE and the River Network.
 - RFC partners with the City of Carbondale to provide an annual Bicycle Ditch Tour, where participants gain access to diversion headgates and learn how agricultural and municipal ditches on the Lower Crystal function.
- **Watershed Health, Environment, and Recreation**
 - The Roaring Fork Watershed Plan, published in 2012, provides "a reference to enable laymen, students, activists, and recreationalists to get involved with watershed management" (RFP, p.11). Out of more than 250 outlined recommendations for improving watershed health, many have been accomplished or are currently underway. With local funding, we are working on a five-year update to re-engage stakeholders and ensure that actions are still relevant to the current state of water affairs. As an outcome of this process, we are working to create an interactive dashboard to display both plan recommendations and Roaring Fork Watershed data including stream flows, diversions water quality, as well as water-related studies and resources.
 - In 2015, RFC partnered with Colorado State University to publish the Lower Fryingpan River and Ruedi Reservoir Economic Impact Study, which details the monetary value of angling in the Fryingpan Valley. Given the positive regional impact of this globally-known Gold Medal Fishery, RFC's press release was picked up by several local and national media outlets.
 - RFC served as a coordinating entity between reservoir owners and Roaring Fork Valley stakeholders, including the City of Aspen, Pitkin County, and interested citizens, after the August 2015 Grizzly Reservoir draining. RFC's work facilitated interagency cooperation, ensured timely chemical and biological monitoring, mediated public relations, and helped develop a memorandum of understanding for future communication of water releases.
 - RFC hosts an annual River Float where participants float the lower Roaring Fork River with a designated 'boat ambassador,' with specific water knowledge. Ambassadors

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present and answer questions about water law, riparian ecosystems, and fisheries to over 100 individuals each year.

- Education, Outreach and Innovation
 - RFC and The River Center (now under construction) will play a key role on the western slope to “significantly improve the level of public awareness and engagement regarding water issues statewide.” With its prime location in the center of the Roaring Fork Valley, projections show The River Center seeing up to 40,000 visitors a year. With significant tourism from all corners of Colorado, The River Center will serve as a hub of collaboration, providing “well-informed community discourse and decision making regarding balanced water solutions.” We will use this venue to enhance our existing relationships with state, local, and federal partners (CWP, Ch10-2-H, pg.10-7).
 - RFC’s annual Watershed Explorations highlight many key components of the Water Plan, working to educate locals and visitors, and to bridge the gaps between east and west, recreationalist and rancher, and environmentalists and agriculture. Program highlights include:
 - Twin Lakes Tunnel and Diversion Tour (CWP, Ch. 4-9; CBIP Sec. 1.2-2): Perennially filled to capacity, this tour links east and west, as we partner with Colorado Springs Utilities to engage participants firsthand to observe how water is collected from the headwaters of the Roaring Fork River and diverted under the Continental Divide to Front Range cities and farms. Program participants visit Lost Man Reservoir, the Roaring Fork collection dam and tunnel, travel Lincoln Creek Road to Grizzly Reservoir, and explore the four-mile long Twin Lakes tunnel that moves up to 40% of the Roaring Fork River’s water to the eastern slope. Staff from Twin Lakes Reservoir and Canal Company and RFC staff partner to lead this informative tour of the tunnels, dams, and ditches that move water around our state. This is one of the most popular programs offered by RFC, reaching residents of the Roaring Fork Valley as well as visitors from the Front Range and out-of-state. This full-day program provides a perfect venue to discuss the CWP and help CBRT fulfill its educational goals by creating an open dialogue on water storage in relation to the supply-demand gap and the increasing need for water efficiencies and conservation.
 - RFC’s innovative, field-based Snow to Flow education program (CWP Ch. 4; CBIP Sec. 1.2,1.3, 1.4, and 2) engages middle school to adult audiences in digging snow pits, collecting samples from different layers in the snowpack, and then melting the samples to determine the water content in each layer. Classes analyze the results and discuss snowpack density data in relation to water storage and impacts on future water supplies. Snow science classes are critical in connecting students to snow as their primary source of water. At the conclusion of this program, students partake in a water supply forecasting exercise and discuss the economics of snow in Colorado, including ties to tourism, whitewater rafting, angling, the ski industry, use in agricultural production, as well as downstream, out-of-state water uses.
 - RFC partners with Ruedi Water and Power Authority (CWP Ch. 5, 6 and 8; CBIP Sec. 1.4 and 2) to host an annual tour of Ruedi Reservoir and the dam, all



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while discussing transbasin water diversions, how Ruedi Reservoir operates, and water rights.

- RFC has made significant connections with Colleges and Universities in Colorado Springs. Programs include:
 - An annual tour with Colorado College's Environmental Science program to discuss policy and projects including the Crystal River Management Plan, the Comprehensive Lower Fryingpan Assessment, and the Lower Fryingpan River and Ruedi Reservoir Economic Impact Study (CWP Ch. 1, 4, and 6; CBIP Sec. 2).
 - A partnership with the University of Colorado at Colorado Springs for a volunteer project designed for the staff of the Roaring Fork Dining Hall, a new facility on their campus. Staff and their families take a bus from Colorado Springs to Basalt, helping to remove wildlife fencing and noxious weeds in key migration corridors. This provides an opportunity to experience the connection between water in Colorado Springs and that in the Roaring Fork Valley, where 29 of the 32 participants had never before visited (CWP Ch. 7, 9 and 9.5; CBIP Sec. 2).
- We believe that a well-informed community often begins with our youngest residents. Our education and outreach programs serve over 6,000 local school children each year. We also recently published a children's book titled *Dee Dee the Fryingpan River Dipper*, a naturalist-focused story about a local American Dipper, illustrated by local school children through our integrated science and art program. The book, targeted towards a younger audience than we typically reach (pre-school to grade 3), also includes a River Journal section, outlining specific activities adults and children can do to explore their local riparian habitats and streams (CWP Ch. 9.5; CBIP Sec. 2).

The programs described above demonstrate RFC's commitment to collaboration, addressing multiple needs, valuing relationships with stakeholders and local governments, and ability to share and communicate our work through thoughtful and strategic programming. (CWP, Section 9.4, pp. 9-43 to 9-44).

From their early planning phases, RFC has worked to integrate the themes of both the CBIP and CWP into our education and outreach programs. We brought the CBIP into the classroom and solicited over 300 comments from students and submitted them to the state. This created a venue to not only have student voices heard in the plan, but also expose local youth to current statewide water initiatives. Since publication of the CBIP and CWP, RFC has worked to incorporate the themes of the plan into our lessons as well as raise awareness of CWP locally. Below are some key programs that highlight the CBIP Public Outreach Plan. Please see Engagement Track under the Supplemental Application for further details:

- RFC education staff write a weekly river report that is published in The Aspen Times, disseminated to an electronic mailing list, and published on social media accounts including Facebook and Instagram. This directly accomplishes three primary activities described in the CBIP Public Outreach (CBIP, section 2.3, p41) related to traditional and social media, and communicating with watershed groups. RFC has been highlighted in multiple newspapers,

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radio spots, and on TV for various watershed policy and education initiatives including water quality monitoring, field classes, wetland and diversion tours, planning processes, and more. We are already on the radar for these media outlets and can continue to leverage this into the future to maximize the reach of our efforts. With a mailing list of over 6,000 individuals, and over 2,000 followers on Facebook, we have a significant direct audience to reach through our own communication avenues as well. CBRT frequently looks to RFC for help in outreach and communications, thus supporting this RFC education and engagement project would bolster the entire CBRT efforts.

- RFC's K-12 education programs are referenced as good models for the CBRT to use to improve connections to broader populations (CBIP, section 2.3 p41). This project will ensure that RFC can continue to model excellent K-12 education program by 1) supporting development of new/updated courses and 2) enable RFC to mentor other watershed groups and initiatives within the CBRT. Through organization to organization mentorship, RFC will help others adapt lessons to unique situations, share tips to build interest and commitment from area teachers and schools, and be a resource into the future.
- RFC educators teach two-hour long guest lectures in environmental science classes at CMC, reaching over 30 college students annually. The theme of these lectures is Water in the West and the topics covered during this lecture include: an overview of Colorado's watersheds and sub-basins, snow as the primary source of water in our rivers, the diverse uses of water in the west (i.e. agriculture, recreation, energy, industry, municipal, environmental), and the implications of increasing populations on the water supply, specifically addressing the supply-demand gap outlined in the CWP. Students learn about the origins of the CWP and its purpose as we close with a discussion on managing water, water priorities, and the increasing importance of water efficiencies and conservation.
- In collaboration with the Twin Lakes Reservoir and Canal Company, RFC offers annual tours of the Twin Lakes Transbasin Diversion System. During this full-day program, participants see firsthand how water is collected from the headwaters of the Roaring Fork River and diverted under the Continental Divide to Front Range cities and farms. Reaching residents of the Roaring Fork Valley as well as Front Range and out-of-state visitors, this program provides a perfect springboard to discuss the CWP and help CBRT fulfill its educational goals by sharing information on water storage in relation to the supply-demand gap, the increasing need for water efficiencies and conservation, and the long-term implications of the CBIP and CWP (CWP Ch. 4-9; CBIP Sec. 1.2-2 and 2.3 p41).
- The CBIP identifies other avenues to engage people in water issues such as film, radio, art and literature (CBIP, section 2.3 p42). RFC education programming is becoming more interdisciplinary by incorporating science and art together –through which we have published our first children's book with illustrations from local school children - and more accessible to all including specific programs that are now offered bilingual. We work with Colorado Mountain College's Isaacson School of Media and are employing two students to create a film highlighting RFC's work and the Roaring Fork Watershed.

RFC's work meets SWSI 2010 states:

- **The CWCB, in consultation with other state agencies, shall develop and implement a plan to**

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educate and promote stewardship of water resources that recognizes water's critical role in supporting the quality of life and economic prosperity of all Coloradoans.

RFC Watershed Education Programs detailed throughout this application continue to work to meet this goal.

RFC is highlighted as a model program within the basin for K-12 education, an experience that will only be enhanced and expanded by the completion of The River Center (CBIP, pg. 41).

RFC aligns much of its work with current state and local initiatives. We strive not only to make a difference within the Roaring Fork Watershed, but to share our work with others around the state thereby creating greater impact and collaboration. The continuation and expansion of RFC's Education Programs will allow the work that we do to benefit Colorado's water resources to grow and create increased exposure for the message and goals of Colorado's Water Plan and the Colorado Basin Implementation Plan.

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.

RFC's education programs dovetail with all other educational efforts around the state. Our curriculum for school programs is aligned with Colorado State Education Standards and National Association for Environmental Education Standards, facilitating adoption and use by teachers and school districts. RFC programs are unique in the way we integrate watershed science and policy projects with watershed education programming. This approach applies to RFC projects previously supported by CWCB (i.e., Coal Basin & Crystal River Confluence Restoration Planning), with over 200 fifth-grade students still visiting Coal Basin, annually, on RFC field education programs that grew from our involvement in that project. We translate the science and civics of real-world issues into accessible and authentic content for our students. Growing evidence from studies around the world support the effectiveness of "real-world" problem solving, outdoor experiences, and service learning projects in educating and inspiring the public.

RFC conducted outreach efforts during the writing of the Colorado Basin Implementation Plan; many of this research was included in the final CBIP (pages 32, 36, 36, 37, and 39) and we remain in contact with many of those groups and individuals. RFC partners with numerous organizations locally and regionally that directly or indirectly supported by CWCB programs, including: Colorado River Watch, Middle Colorado Watershed Council, Colorado Basin Roundtable, Trout Unlimited, and local governments.

RFC staff participate in the Colorado Foundation for Water Education's Water Educator Network and present at workshops hosted by Colorado Watershed Assembly and River Network, all of which have received funding from CWCB.

Previous CWCB Grants, Loans or Other Funding



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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.

1. Roaring Fork Conservancy
2. Crystal River Watershed- Assessment and Design of Restoration Projects in the Colorado River Basin
3. Colorado
4. April 2013
5. C150520
6. 56%

1. Roaring Fork Conservancy
2. Crystal River Management Plan
3. Colorado
4. January 2017
5. POGG1 PDAA 201700000911
6. 37%

1. Roaring Fork Conservancy
2. Coal Basin and Crystal Confluence Area Restoration Planning
3. Colorado
4. February 2012
5. OE PDA 13000000021
6. 35%

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

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Submittal Checklist	
X	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⁾ (<i>Spreadsheet</i>)
	Letters of Matching and/or Pending 3 rd Party Commitments ⁽¹⁾
Exhibit C	
X	Map (if applicable) ⁽¹⁾
	Photos/Drawings/Reports
X	Letters of Support (Support letter from Basin Roundtable encouraged)
	Certificate of Insurance (General, Auto, & Workers' Comp.) ⁽²⁾
	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	
X	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

Prepared Date:	February 20, 2018
Name of Grantee:	Roaring Fork Conservancy
Name of Water Project:	River Center Education Programs
Funding Source:	Engagement and Innovation Water Plan Grant

Water Project Overview:

Roaring Fork Conservancy (RFC) is requesting funds to support water education programs that align with Roaring Fork Watershed Plan, Colorado Basin Implementation Plan (CBIP), and Colorado Water Plan (CWP) goals, reaching audiences of all ages. With the River Center under construction, RFC will soon be a regional and state hub for watershed-related education, research, policy, and collaboration. RFC's innovative goal of sharing and modeling the actions necessary for protecting our rivers and watershed require a significant amount of interaction with the public. We seek to extend our reach and impact through multiple avenues and coordinated efforts, ranging from school field trips and classes to college internships, from community stakeholder meetings to water professional workshops and seminars and teacher professional development opportunities. Using indoor classrooms alongside the outdoor environment, RFC will work to meet increasing demand for local and regional school programming, and provide mentorship to other watershed groups embarking on similar missions throughout the state. We also work closely with a strong network of citizen scientists, providing trainings and continuing education opportunities in river research and analysis.

Project Objectives:

- Increase Roaring Fork Valley resident and visitor awareness of, and investment in water issues, including Roaring Fork Watershed Plan, CWP and CBIP.
- Translate complex water issues and CWP/CBIP goals into relevant, actionable messages.
- Strategically match water concerns and messages with appropriate audiences.
- Help people understand why they should care about water issues and state/local water plans.
- Inspire individuals to explore, to value and protect the Roaring Fork Watershed.
- Communicate real-time water updates, concerns and successes to residents and visitors of the Roaring Fork Valley.

Tasks

Task 1 – Education Programs for K-12

Description of Task:

RFC educators will provide field-based and in-classroom programs to students in the Roaring Fork Valley. Examples of programming include:

- Aquatic Insects: Life Cycle, Adaptations, Pollution Tolerance Index (CWP Ch. 9, Sec. 9.5; CBIP Sec. 1.3)
- Wetlands (CWP Ch. 7 and Ch. 9, Sec. 9.5; CBIP Sec. 1.2 and 2)
- Stream Trailer (CWP Ch. 9, Sec. 9.5; CBIP Sec. 1.2, 1.3, 1.4)
- Science and Art (CWP Ch. 9, Sec. 9.5; CBIP Sec. 2)
- Watershed Mapping (CWP Ch. 9, Sec. 9.5, CBIP Sec. 1.2 and 2)
- Local Water History (CWP Ch. 6; CBIP Sec. 1.1 and 1.3)
- Enviroscope Model: Non-point source Pollution (CWP Ch. 7; CBIP Sec. 1.2 and 1.3)
- Life Zones & Riparian Zone Metaphors (CWP Ch. 9, Sec. 9.5; CBIP Sec. 1.2 and 1.3)
- Water Cycle: Incredible Journey (CWP Ch. 4; CBIP Sec. 2)
- Ruedi Reservoir Field Trip (CWP Ch. 5, 6 and 8; CBIP Sec. 1.4 and 2)
- Geomorphology Field Trip in the Crystal River Valley (CWP Ch. 9, Sec. 9.5; CBIP Sec. 1.3, 1.4, and 2))
- Snow Science: Snow to Flow (CWP Ch. 4; CBIP Sec. 1.2, 1.3, 1.4 and 2)
- Stormwater: Storm Drain Hunt (CWP Ch. 6, Sec. 6.5; CBIP Sec. 1.2 and 1.3)
- Groundwater Model (CWP Ch. 4 and 6; CBIP Sec. 1.3 and 2)
- Water Allocation: Plumbing the Colorado (CWP Ch. 5, Ch. 8, and Ch. 9 Sec. 9.1; CBIP Sec. 1.4-1.6, and 2)

Watershed Manager: Diverse Stakeholders (CWP Ch. 7; CBIP Sec. 1.4-1.6, and 2)

Method/Procedure:

1. RFC will communicate with teachers from the Roaring Fork and Aspen School Districts to schedule student programming.
2. RFC education staff will review all programming with teachers to ensure lessons dovetail into their curriculum.
3. RFC schedules programs and makes all arrangements necessary for programs: gather teaching tools, make copies, and finalize details for field trips.
4. RFC staff will deliver high quality, informative school programming- either in the classroom or at select field locations - that aligns with Roaring Fork Watershed Plan, CBIP, and/or CWP goals and themes.

Deliverable:

1. RFC educators will reach and teach over 5,000 contacts.
2. RFC educators will teach over 100 school programs.

RFC will provide number of student contacts reached, the grade levels of students reached, and number of programs, key CWP and CBIP concepts shared, and photo documentation of select programs.

Tasks
Task 2 – Outreach: Education Programs for Adults & Families
Description of Task:
<p>RFC offers field-based educational programs for adults and families through its trademark Watershed Explorations. These action-packed programs are designed to bring participants to unique places in the watershed and teach them about specific water issues from local and regional experts and align with many CBIP/CWP goals and objectives. Explorations include river floats, hikes near important riparian habitat, tours of water diversion projects, and volunteer habitat restoration projects. Examples of Watershed Explorations we offer include:</p> <ul style="list-style-type: none"> • Twin Lakes Tunnel & Diversion Tour (CWP, Ch. 4-9; CBIP Sec. 1.2-2) • Aspen Tap: Drinking Water Tour (CWP, Ch. 4-7, 9; CBIP Sec. 1.2-1.5 and 2) • Water in the Age of Silver: Touring Aspen’s “Holden Works” (CWP, Ch. 5, Ch. 6, and Ch. 9 Sec. 9.5; CBIP Sec. 1.3, 1.4 and 2) • Ruedi Reservoir Tour: Storing West Slope Water (CWP, Ch. 5, 6 and 8; CBIP Sec. 1.4-1.6 and 2) • Wetland Walk in Aspen’s Rio Grande Park (CWP, Ch. 7 and Ch. 9, Sec. 9.5; CBIP Sec. 1.2, 1.3 and 2) • Snow to Flow: Exploring Snowpack on McClure Pass (CWP, Ch. 4; CBIP Sec. 1.2, 1.3, 1.4 and 2) • Emma Snowshoe Tour, Campfire and Storytelling (CWP, Ch. 4, Ch. 6 Sec. 6.6 and Ch. 9 Sec. 9.5; CBIP Sec. 1.2, 1.4 and 2) • Annual Roaring Fork River Float (Ch. 9 Sec. 9.5; CBIP Sec. 1 and 2) • North Star Preserve River Float (Ch. 9 Sec. 9.5; CBIP Sec. 1.2, 1.3 and 2) • Explore Filoha Meadows: Fireflies, Bats and Aquatic Insects (Ch. 9 Sec. 9.5; CBIP Sec. 1.2 and 2) • Rain Barrel 101 Workshop (CWP, Ch. 6 Sec.6.3 and Ch. 9 Sec. 9.5; CBIP Sec. 1.2, 1.5 and 2)
Method/Procedure:
<ol style="list-style-type: none"> 1. RFC will contact partners including, but not limited to: Pitkin County Open Space and Trails, Ruedi Water and Power Authority, the City of Aspen, to schedule Watershed Explorations. 2. RFC will publicize programs via Facebook, press releases, online community calendars, public radio stations, our website, and through our monthly e-newsletter. 3. RFC will register program participants and communicate program details and logistics with them. 4. RFC staff will deliver high quality, informative programming that aligns with Roaring Fork Watershed Plan, CBIP, and/or CWP goals and themes.
Deliverable:
<ol style="list-style-type: none"> 1. RFC will offer over 20 Watershed Explorations. 2. RFC educators will reach over 500 adults through its Watershed Explorations. 3. All attendees will be made aware of CWP and CBIP and how the program facilitates specific goals/objectives. <p>RFC will provide number of participants per program, and the number and name of Watershed Explorations offered, and photos from select programs. We will solicit and share feedback from participants on program effectiveness, successes, and opportunities for improvement.</p>

Tasks

Task 3 – Communication

Description of Task:

1. RFC will publish a biannual newsletter which will provide updates on watershed actions projects, watershed education programs, and water-related projects in the Roaring Fork Valley and the state.
2. RFC will utilize Facebook and Instagram to communicate programs, articles, and facts about water in the Roaring Fork Valley, Colorado and the west.
3. RFC will maintain an updated website reflecting program offerings and project updates.
4. RFC will create a weekly snowpack and/or stream flow report.
5. RFC will create and email a monthly e-newsletter.

Method/Procedure:

1. RFC will determine the theme of its biannual newsletters based on local and state water trends and issues. Staff and contributing authors will write articles for the newsletter. Each newsletter will be mailed to over 6,000 individuals as well as downloadable on the RFC website.
2. RFC staff will create Facebook and Instagram messages and post 2-3 times per week.
3. RFC staff will update its website with current information as needed.
4. Every week, RFC staff utilize data provided by U.S. Geological Survey and Natural Resources Conservation Service to create a snowpack and/or stream flow report (seasonally dependent) for the Roaring Fork Watershed. The reports are submitted to the Aspen Times, who publishes them each Friday. Snowpack/Streamflow Reports are also posted on RFC's Facebook page and emailed to constituents to signed-up to receive them.
5. At the beginning of every month (except December), RFC writes a monthly e-newsletter, "River Notes," which details upcoming programs, recruitment of volunteers for restoration projects, and updates on watershed action projects. RFC sends this email to every member of our database.

Deliverable:

1. Over 12,000 total will receive RFC's biannual newsletter.
2. Over 50 Snowpack/Streamflow Reports will be written, distributed, and published.
3. Eleven e-newsletters will be written and distributed.

For CWCB:

1. RFC will provide copies of each newsletter, and quantity mailed via U.S. Postal Service.
2. RFC will provide copies of Snowpack/Streamflow Reports and quantity emailed, and a newspaper clipping of the report from the Aspen Times.
3. RFC will provide a copy of each "River Notes" and report quantity delivered.
4. RFC will provide number of Facebook followers and screenshots of select posts.

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.

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 grantee 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.

Project costs not covered by this or other grants are the responsibility of the grantee.

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

Colorado Water
Conservation Board

Department of Natural Resources

Colorado Water Conservation Board

Water Plan Grant - Exhibit B Budget and Schedule

Prepared Date: February 20, 2018

Name of Applicant: Roaring Fork Conservancy

Name of Water Project: River Center Education Programs

Task No.	Task Description	Start Date	End Date	Grant Funding Request	Match Funding	Total
1	Education programs for K-12	3/15/2018	3/15/2020	\$27,000.00	\$48,000.00	\$75,000
2	Outreach: education programs for adults and families	3/15/2018	3/15/2020	\$14,000.00	\$25,000	\$39,000
3	Communication	3/15/2018	3/15/2020	\$9,000.00	\$11,000	\$20,000
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
Total				\$50,000	\$84,000	\$134,000

Colorado Water Conservation Board
Water Plan Grant - Detailed Budget Estimate
Fair and Reasonable Estimate

Prepared Date: February 20, 2018

Name of Grantee: Roaring Fork Conservancy

Name of Water Project: River Center Education Programs

Task 1 - EDUCATION PROGRAM FOR K-12

Sub-task	Item	Hourly Rate	# Hours	Sub-total	Item Cost	Item Quantity	Sub-total	Total	CWCB Funds	Other Matching Funds
Administration										
	Program Scheduling and Coordinating	\$ 75.00	80	\$ 6,000.00			\$ -	\$ 6,000.00		\$6,000.00
	Tracking, statistics	\$ 75.00	25	\$ 1,875.00			\$ -	\$ 1,875.00	\$1,875.00	
	Travel time	\$75.00	150	\$ 11,250.00			\$ -	\$ 11,250.00	\$2,000.00	\$9,250.00
	Mileage (\$0.545/mile)			\$ -	\$ 0.55	6000	\$ 3,270.00	\$ 3,270.00		\$3,270.00
4th Grade Watershed Unit										
	Pre/Post Test Creation & Modification	\$ 75.00	15	\$ 1,125.00			\$ -	\$ 1,125.00	\$1,125.00	
	Spanish Translation of printed materials (outsourced)	\$ 100.00	10	\$ 1,000.00			\$ -	\$ 1,000.00		\$1,000.00
	Program Delivery to students	\$ 75.00	65	\$ 4,875.00			\$ -	\$ 4,875.00	\$2,375.00	\$2,500.00
River Center Education Programming										
	Streamside Stream Health Assessment program (grades 3-12)	\$ 75.00	15	\$ 1,125.00				\$ 1,125.00	\$1,125.00	
	American Dipper program (grades K-3)	\$ 75.00	20	\$ 1,500.00				\$ 1,500.00	\$1,500.00	
	Equipment (macroinvertebrate & water chemistry supplies, art supplies)						\$ 2,500.00	\$ 2,500.00	\$2,500.00	
	Printing costs						\$ 500.00	\$ 500.00	\$500.00	
Field Trip and Classroom Programs										
	External Evaluation of select classes			\$ 2,500.00				\$ 2,500.00	\$2,500.00	
	Program Delivery: Watershed Education Programs (K-12)	\$ 75.00	500	\$ 37,500.00				\$ 37,500.00	\$11,500.00	\$ 26,000.00

Task 1 TOTAL	\$ 75,020.00	\$27,000.00	\$48,020.00
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Task 2 - OUTREACH: EDUCATION PROGRAMS FOR ADULTS & FAMILIES

Sub-task	Item	Hourly Rate	# Hours	Sub-total	Item Cost	Item Quantity	Sub-total	Total	CWCB Funds	Other Matching Funds
Administration										
	Schedule & coordinate programs	\$ 75.00	40	\$ 3,000.00			\$ -	\$ 3,000.00	\$3,000.00	
	Track statistics	\$ 75.00	8	\$ 600.00			\$ -	\$ 600.00	\$600.00	
	Marketing of Programs (Fliers, PSAs, media)	\$75.00	18	\$ 1,350.00				\$ 1,350.00	\$1,350.00	
	Printing costs				\$0.35	100	\$ 35.00	\$ 35.00	\$35.00	

River Center Education Programming						
	Family Program Delivery (dipper, macroinvertebrate, fly fishing, art & science)	\$	75.00	20	\$	1,500.00
	Family Program Development and Marketing	\$	75.00	8	\$	600.00
	Adult Lectures and Presentations (organize, market, speaker fee as needed)	\$	75.00	12	\$	900.00
	Equipment					

Watershed Explorations

	Community Programs (Feb. thru Sept.): Program preparation, delivery, travel, mileage	\$	75.00	300	\$	22,500.00	\$	0.55	3670	\$	2,000.15	\$	24,500.15		\$24,500.00
	Evaluation/Surveys				\$	500.00						\$	500.00	\$	500.00

	Twin Lakes Diversion Tour (Prep, delivery and Jeep rentals to Grizzly Reservoir)	\$	75.00	14	\$	1,050.00	\$	450.00	4.00	\$	1,800.00	\$	2,850.00	\$	2,850.00
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Adult Education

	Guest Lectures with college courses (Colorado Mountain College, Colorado College, others)	\$	75.00	7	\$	525.00						\$	525.00	\$	525.00
	Teacher Workshop: Program Creation, Delivery and Materials	\$	75.00	14	\$	1,050.00						\$	1,050.00	\$	1,050.00

Citizen Science

	Citizen Science Support	\$	75.00	20	\$	1,500.00						\$	1,500.00	\$	1,000.00	\$	500.00
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Task 2 TOTAL													\$	39,010.15	\$14,010.00	\$25,000.00
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Task 3 - COMMUNICATION

Sub-task	Item	Hourly Rate	# Hours	Sub-total	Item Cost	Item Quantity	Sub-total	Total	CWCB Funds	Other Matching Funds			
Website													
	Management and updates	\$	75.00	30	\$	2,250.00	\$	-	\$	2,250.00	\$1,200.00	\$1,050.00	
	Hosting fees and support				\$	-	\$	50.00	12.00	\$	600.00	\$	600.00
Printed Communication													
	Develop, coordinate, edit biannual newsletter (sent to over 6,000)	\$	75.00	65	\$	4,875.00	\$	-	\$	4,875.00	\$2,000.00	\$2,875.00	
	Develop, coordinate, edit annual report	\$	75.00	60	\$	4,500.00	\$	-	\$	4,500.00	\$2,000.00	\$2,500.00	
	(Printing and mailing costs covered by development department)												
Weekly River and Snowpack Reports					\$	-	\$	-	\$	-			
	Create and distribute to over 1,500 via email and to Aspen Times	\$	75.00	104	\$	7,800.00	\$	-	\$	7,800.00	\$3,800.00	\$4,000.00	

Task 3 TOTAL													\$	20,025.00	\$9,000.00	\$11,025.00
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<u>Task 1 Matching Funds Identified:</u>	<u>Amount:</u>
Thrift Shop of Aspen <i>(pending)</i>	\$ 5,000.00
Pitkin County Open Space & Trails	\$ 1,000.00
Bessie Minor Swift Foundation <i>(pending)</i>	\$ 3,000.00
School Program Payments	\$ 17,000.00
Roaring Fork Conservancy	\$ 22,020.00
<i>TOTAL:</i>	<i>\$ 48,020.00</i>

<u>Task 2 Matching Funds Identified:</u>	<u>Amount:</u>
City of Aspen Parks & Open Space	\$ 2,500.00
Pitkin County Open Space & Trails	\$ 22,000.00
Roaring Fork Conservancy	\$ 500.00
<i>TOTAL:</i>	\$ 25,000.00

<u>Task 3 Matching Funds Identified:</u>	<u>Amount:</u>
Individual Donors	\$ 1,000.00
Roaring Fork Conservancy	\$ 10,025.00
<i>TOTAL:</i>	\$ 11,025.00