

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 10-11, 2021
Consent Agenda Item 2(o)**

Applicant & Grantee: Mountain Studies Institute

Water Activity Name: Forests to Faucets: My Water Comes from the San Juan Mountains Teacher Training Workshop Series

Water Activity Purpose: Education & Outreach - Implementation

County: Archuleta, Dolores, and La Plata

Drainage Basin: San Juan River, Mancos/Dolores Basin

Water Source: Las Animas/San Juan River and Mancos/Dolores watersheds

Amount Requested: \$1,566 Southwest Basin Account
\$14,096 Statewide Account
\$15,662 Total Request

Matching Funds: **Basin Account Match = \$1,566**

- 11% of statewide request (meets 10% min)

Applicant & 3rd Party Match = \$63,415 (\$46,559 cash & \$16,856 in-kind)

- 449% of the statewide request (meets 10% min)

Total Match (Basin request & Applicant Match) = \$64,981

- 460% of the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$1,566 from the Southwest Basin Account and \$14,096 from the Statewide Account to help fund the project: Forests to Faucets: My Water Comes from the San Juan Mountains Teacher Training Workshop Series

Water Activity Summary: If approved, WSRF funds would be used to fund the Forests to Faucets Teacher Training Workshop Series 2021-2023. The workshop series will train 15-20 teachers annually to teach their students about the importance of area water supplies and the interconnection of healthy watersheds through a multi-day course, including options for field-based educational tours.

The applicant believes support offered through this workshop is needed now more than ever since the COVID-19 pandemic has put enormous pressures on educators. This project meets the requests of teachers for new non-screen-based educational tools, informed by needs assessment surveys conducted throughout 2020. The applicant states the training empowers educators to include place-based

watershed education in their lesson plans and engage students to think critically about Colorado's water issues. This workshop is appropriate for teachers of K-12 classrooms and rotates over three years between the Animas/San Juan River watershed (Durango and Silverton), the Upper San Juan watershed (Pagosa Springs), and the Mancos/Dolores River watershed (Mancos, Dolores and Cortez). Over the three year project schedule, WSRF funding will help support a total of 45-60 teachers and by extension educate over 900 students in the Southwest Basin.

Discussion: This project aligns with a Water Plan educational goal of educating the public on specific water related issues. It also aligns with the Southwest Basin Roundtable's Education Action Plan of providing water education for constituents in the region. Finally, it aligns with the Basin's Basin Implementation Plan by promoting dialogue, foster cooperation and resolve conflict among water interests.

Issues/Additional Needs: The applicant will need to secure matching funding prior to contracting. No others issues or additional needs have been identified.

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-Kind	Total	Status
Forests 2 Faucets Team	\$28,509	\$3,656	\$32,165	Secured
Content Experts & Donated Space	\$0	\$13,200	\$13,200	Secured
Great Outdoors Colorado	\$5,300	\$0	\$5,300	Pending
Project Partners	\$12,750	\$0	\$12,750	Pending
Sub Total Matching Funds	\$46,559	\$16,856	\$63,415	
WSRF Southwest Basin Account	\$1,566	\$0	\$1,566	Secured
WSRF Statewide Account	\$14,096	\$0	\$14,096	
Sub Total WSRF	\$15,622	\$0	\$15,622	
Total Project Costs	\$62,221	\$16,856	\$79,077	

CWCB Project Manager: Ben Wade



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Colorado Water Conservation Board
Water Supply Reserve Fund Grant Application

Instructions
<p>All WSRF grant applications shall conform to the current 2020 WSRF Criteria and Guidelines.</p> <p>To receive funding from the WSRF, a proposed water activity must be recommended for approval by a Roundtable(s) AND the approved by the Colorado Water Conservation Board (CWCB). The process for roundtable consideration and recommendation is outlined in the 2020 WSRF Criteria and Guidelines. The CWCB meets bimonthly.</p> <p>If you have questions, please contact the WSRF Grant Program Manager (for all Roundtables) or your Roundtable Liaison:</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p>Ben Wade ben.wade@state.co.us 303-866-3441 x3238 (office)</p> </div> <div style="text-align: center;"> <p>Sam Stein Sam.stein@state.co.us 303-866-3441 (office)</p> </div> </div>

WSRF Submittal Checklist (Required)
<p>YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> This request was recommended for CWCB approval by the sponsoring roundtable.</p> <p>YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> I have read and understand the 2020 WSRF Criteria and Guidelines.</p> <p>YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> Grantee will be able to contract with CWCB using the Standard Contract.¹</p> <p style="text-align: center; margin-top: 20px;">Application Documents included:</p> <p>YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> Exhibit A: Statement of Work² (<i>Word – see Template</i>)</p> <p>YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> Exhibit B: Budget & Schedule² (<i>Excel Spreadsheet – see Template</i>)</p> <p>YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> Letters of Matching and/or Pending 3rd Party Commitments²</p> <p>YES <input type="checkbox"/> NO <input type="checkbox"/> Map²</p> <p>YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> Photos/Drawings/Reports</p> <p>YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> Letters of Support</p> <p style="text-align: center; margin-top: 20px;">Contracting Documents³</p> <p>YES <input type="checkbox"/> NO <input type="checkbox"/> Detailed/Itemized Budget³ (<i>Excel Spreadsheet – see Template</i>)</p> <p>YES <input type="checkbox"/> NO <input type="checkbox"/> Certificate of Insurance⁴ (<i>General, Auto, & Workers' Comp.</i>)</p> <p>YES <input type="checkbox"/> NO <input type="checkbox"/> Certificate of Good Standing⁽⁴⁾</p> <p>YES <input type="checkbox"/> NO <input type="checkbox"/> W-9 Form⁴</p> <p>YES <input type="checkbox"/> NO <input type="checkbox"/> Independent Contractor Form⁴ (<i>If applicant is individual, not company/organization</i>)</p> <p>YES <input type="checkbox"/> NO <input type="checkbox"/> Electronic Funds Transfer (ETF) Form⁴</p>

¹Click "Grant Agreements". For reference only/do not fill out or submit/required for contracting

² Required with application if applicable.

³ Additional documentation providing a Detailed/Itemized Budget maybe required for contracting. Applicants are encouraged to coordinate with the CWCB Project Manager to determine specifics.

⁴ Required for contracting. While optional at the time of this application, submission can expedite contracting upon CWCB Board approval.



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Schedule		
CWCB Meeting	Application Submittal Dates	Type of Request
January	October 1	Basin Account
March	December 1	Basin/Statewide Account/Water Plan Grant Match ¹
May	February 1	Basin Account
July	April 1	Basin Account
September	June 1	Basin/Statewide Account
November	August 1	Basin Account

¹ If either the basin or statewide match includes matching funds from a pending Water Plant Grant, both must be submitted by December 1st deadline for March Board meeting review.

Water Activity Summary		
Name of Applicant	Mountain Studies Institute, on behalf of the Forests to Faucets team	
Name of Water Activity	<i>Forests to Faucets (F2F): My Water Comes from the San Juan Mountains Teacher Training Workshop Series</i>	
Approving Roundtable(s)	Basin Account Request(s) ¹	
Southwest Basin	\$1,566	
Basin Account Request Subtotal	\$1,566	
Basin Account Request Subtotal Approved by Roundtable	\$	
Statewide Account Request ⁽¹⁾	\$14,096	
Total WSRF Funds Requested (Basin & Statewide)	\$15,662	
Total Project Costs	\$79,077	

¹ Please indicate the amount recommended for approval by the Roundtable(s)

Grantee and Applicant Information	
Name of Grantee(s)	Mountain Studies Institute, on behalf of the Forests to Faucets team
Mailing Address	679 East 2nd Ave, Suite 8; Durango, CO 81301
FEIN	73-1644103
Grantee's Organization Contact ¹	Marcie Bidwell
Position/Title	Executive Director
Email	marcie@mountainstudies.org
Phone	(970) 387-5161
Grant Management Contact ²	Amanda Kuenzi
Position/Title	Community Science Director



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Grantee and Applicant Information	
Email	amanda@mountainstudies.org
Phone	970-387-5161
Name of Applicant (if different than grantee)	
Mailing Address	
Position/Title	
Email	
Phone	

¹ Person with signatory authority

² Person responsible for creating reimbursement invoices (Invoice for Services) and corresponding with CWCB staff.

Description of Grantee
Provide a brief description of the grantee's organization (100 words or less).
The Forest to Faucets (F2F) Team is comprised of Mountain Studies Institute (MSI), San Juan Mountains Association (SJMA), Fort Lewis College (FLC), and the Water Information Program (WIP). This team has been working together since 2012 to bring the Forests to Faucets: My Water Comes from the San Juan Mountains Teacher Training Workshop Series to the educators of Southwest Colorado.

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: are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
X	Non-governmental organizations: broadly, any organization that is not part of the government
	Covered Entity: as defined in Section 37-60-126 Colorado Revised Statutes

Type of Water Activity (check one)	
	Study



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X	Implementation
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Category of Water Activity (check all that apply)		
	Nonconsumptive (Environmental)	
	Nonconsumptive (Recreational)	
	Agricultural	
	Municipal/Industrial	
	Needs Assessment	
X	Education & Outreach	
	Other	Explain:

Location of Water Activity	
Please provide the general county and coordinates of the proposed activity below in decimal degrees . The Applicant shall also provide, in Exhibit C, a site map if applicable.	
County/Countries	La Plata, Archuleta, Dolores
Latitude	NA
Longitude	NA

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



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Water Activity Overview
<p>The Forests to Faucets Teacher Training Workshop Series 2021-2023 will train 15-20 teachers annually to teach their students about the importance of area water supplies and the interconnection of healthy watersheds through a multi-day course, including options for field-based educational tours. The COVID19 pandemic has put enormous pressures on educators, and the support offered through this workshop is needed now more than ever. This project meets the requests of teachers for new non-screen-based educational tools, informed by needs assessment surveys conducted throughout 2020. This training empowers educators to include place-based watershed education in their lesson plans and engage students to think critically about Colorado's water issues. This workshop is appropriate for teachers of K-12 classrooms and rotates over three years between the Animas/San Juan River watershed (Durango and Silverton), the Upper San Juan watershed (Pagosa Springs), and the Mancos/Dolores River watershed (Mancos, Dolores and Cortez). The Forest to Faucets education partnership contributes to Southwest Conservation District's and Southwest Basin Roundtable's Education Action Plan priority to provide water education for constituents in the region (Southwest Basin's Public Education, Participation, and Outreach Implementation Plan). Funding will support three workshops in 2021-2023, reaching a total of 45-60 teachers and by extension educate over 900 students.</p>

Measurable Results		
To catalog measurable results achieved with WSRF funds please provide any of the following values.		
	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)	
	Length of Pipe/Canal Built or Improved (linear feet)	
X	Other	Explain: 15-20 Educators will be trained each year, impacting 300-500 students per year

Water Activity Justification
<p>Provide a description of how this water activity supports the goals of Colorado's Water Plan, the most recent Statewide Water Supply Initiative, and the respective roundtable Basin Implementation Plan and Education Action Plan ⁽¹⁾. 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>For applications that include a request for funds from the Statewide Account, the proposed water activity shall be evaluated based upon how well the proposal conforms to Colorado's Water Plan criteria for state support (CWP, Section 9.4, pp. 9-43 to 9-44;) (Also listed pp. 4-5 in 2020 WSRF Criteria and Guidelines).</p>



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Water Activity Justification

The Forests to Faucets program meets the Colorado's Water Plan Goal 9.5:

"K-12 Education: Water providers across the state administer several K-12 programs. All of these programs use education and outreach to help address specific water supply issues, many of them aimed at educating the public on how to reduce municipal and agricultural water use. Other numerous water conservancy district efforts reach thousands of students each year at children's water festivals and special initiatives within area school districts."

One example is Project Wet (Water Education for Teachers), which is "a national program that trains Colorado teachers how to educate their students about water." The Forests to Faucets program uses Project WET curriculum, as well as unique, original lessons designed for the southwest region.

Southwest Basin Implementation Plan

The Forest to Faucets education partnership contributes to the Southwest Basin Roundtable's Education Action Plan priority to provide water education for constituents in the region (Southwest Basin's Public Education, Participation, and Outreach Implementation Plan).

This project meets the Southwest Basin Implementation Plan's (BIP) Goal A4: "Promote dialogue, foster cooperation and resolve conflict among water interests in every basin and between basins for the purpose of implementing solutions to Southwest Colorado's and Colorado's water supply challenges (SWSI 2010)" by supporting watershed education for young water users. Educators that attend the Forests to Faucets program are introduced to lessons regarding municipal water use, land management implication for water quality, agricultural practices and irrigation, and impacts of drought. These lessons serve to foster an informed public for generations to come.

¹ Access Basin Implementation Plans or Education Action Plans from Basin drop down menu.



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Matching Requirements: Basin Account Requests	
Basin (only) Account grant requests require a 25% match (cash and/or in-kind) from the Applicant or 3 rd party and shall be accompanied by a letter of commitment as described in the 2020 WSRF Criteria and Guidelines (submitted on the contributing entity's letterhead). Attach additional sheet if necessary.	
Contributing Entity	Amount and Form of Match (note cash or in-kind)
Total Match	
If you requested a Waiver to the Basin Account matching requirements, indicate the percentage you wish waived.	

Matching Requirements: Statewide Account Requests	
Statewide Account grant requests require a 50% match as described in the 2020 WSRF Criteria and Guidelines . At least of 10% of the required Statewide Account Grant request match shall be cash from Basin Account funds whether that is from one or multiple basins; and the remaining 40% of the required match may be provided from any source, including other grants, cash from the Basin Account, or any combination of cash, in-kind services, or in-kind materials.and shall be accompanied by a letter of commitment . Attach additional sheet if necessary.	
Contributing Entity	Amount and Form of Match (note cash or in-kind):
Southwest Basin Request	\$1,566 (cash, this request)
Forests to Faucets team (MSI, SJMA, FLC, WIP)	\$28,509 (cash)
Forests to Faucets team (MSI, SJMA, FLC, WIP)	\$3,656 (in-kind)
Content experts and donated space	\$13,200 (in-kind)
Great Outdoors Colorado	\$5,300 (cash, request pending)
2022-2023 Seeking additional sources of cash, which may include past sponsors: Durango Education Foundation, Trout Unlimited, Colorado Alliance for Environmental Education	\$12,750(cash, seeking additional)
Total Match (80.6%)	\$64,981

Related Studies



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Related Studies

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

The Colorado Water Plan projects a water supply shortfall of more than 500,000 acre-feet annually by 2050 if current trends continue. This supply gap is exacerbated by population growth and climate change (Statewide Water Education Action Plan for Colorado 2020-2025). With serious and impending water issues looming, water education is needed in all sectors to promote an appreciation and awareness of the *value* of water (Raucer 2005). According to Pacific Oaks College (POC) "Teacher education programs offer teachers ways to keep their classrooms and curriculum fresh, exciting, and highly educational" (2016, para. 1). Additional benefits for educators include learning new methods to incorporate Next Generation Science Standards (National Research Council, 2012) to better motivate students with place-based, hands-on watershed activities. If students better understand the subject material because it is taught with more engaging and interactive methods, overall learning is enhanced. Furthermore, when learning experiences leverage the power of place, students and teachers are more likely to develop deeper, more meaningful understandings of local water quality and quantity issues.

National Research Council. (2012). *A Framework for K-12 Science Education: Practices, Crosscutting Concepts, and Core Ideas*. Committee on a Conceptual Framework for New K-12 Science Education Standards. Board on Science Education, Division of Behavioral and Social Sciences and Education. Washington, DC: The National Academies Press.

Pacific Oaks College (POC). (2016). *Benefits of teacher education training*. Retrieved from http://www.pacificoaks.edu/Resource_Room/Benefits_of_Teacher_Education_Programs

Raucer, B. (2005). The value of water: What it means, why it's important, and how water utility managers can use it. *American Water Works Association Journal*, 7(4). 90-98.

Statewide Water Education Action Plan for Colorado 2020-2025 (2020). Prepared by Water Education Colorado. Available at: <https://www.watereducationcolorado.org/wp-content/uploads/2020/02/Statewide-Water-Education-Action-Plan-for-Colorado-2020-2025-1.pdf>

Previous CWCB Grants

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



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Previous CWCB Grants

CWCP IPCP 2016: 1) **Applicant:** Mountain Studies Institute (MSI); 2) **Water Activity Name:** Invasive Phreatophyte Control Program: Animas River Invasive Species Removal Program Phase I; 3) **Approving RT:** Southwest Basin Roundtable; 4) **SWBRT date:** November 13, 2015; **CWCB date:** April 2016; 5) **Contract number:** CTGG1 PDAA 2016-1860; 6) **Other CWCB funds:** 0%; 7) **Completion date:** April 2018

WSRF 2016: 1) **Applicant:** Mountain Studies Institute (MSI); 2) **Project Name:** Animas River Community Forum, Phase I; 3) **Approving RT:** Southwest Basin Round Table; 4) **CWCB Date:** April 2016; 5) **Contract number:** POGG1 2016-794, POGG1 PDAA 20160000000000000794, 6) **Other CWCB Funds:** 0%; 7) **Completion Date:** September 2017

WSRF 2017: 1) **Applicant:** Mountain Studies Institute (MSI); 2) **Project Name:** Animas River Community Forum in the Southwest Basin, Phase II; 3) **Approving RT:** Southwest Basin Round Table; 4) **CWCB Date:** July 2017; 5) **Contract number:** CTGG1 2018-201, POGG1 PDAA 201800000201, 6) **Other CWCB Funds:** 0%; 7) **Completion Date:** April 2018

Colorado Water Plan 2018: 1) **Applicant:** Mountain Studies Institute (MSI); 2) **Project Name:** Animas River Removal and Replacement of Invasive Phreatophytes, Phase II; 3) **Approving RT:** Southwest Basin Round Table; 4) **CWCB Date:** May 2018; 5) **Contract number:** POGG1, PDAA, 201900002100, 6) **Other CWCB funds:** 0% 7) **Completion Date:** August 2023

Colorado Water Plan- Innovation Fund 2018: 1) **Applicant:** Mountain Studies Institute (MSI); 2) **Project Name:** Silverton Science & Innovation Center (SSINC); 3) **Approving RT:** Southwest Basin Round Table; 4) **CWCB Date:** Nov 2018; 5) **Contract number:** POGG1, PDAA, 201900002743, 6) **Other CWCB funds:** 0% 7) **Completion Date:** 2020

CWRP and WSRF 2018: 1) **Applicant:** Mountain Studies Institute (MSI); 2) **Project Name:** Watershed Grant Upper San Juan Stream Management Planning, Phase I; 3) **Approving RT:** Southwest Basin Round Table; 4) **CWCB Date:** 4/27/18; 5) **Contract number:** POGG1, PDAA, 201800000886; 6) **Other CWCB funds:** 20.7% 7) **Completion Date:** 1/31/20

Colorado Watershed Restoration Program Grant 2019: 1) **Applicant:** Mountain Studies Institute (MSI); 2) **Project Name:** Animas River Removal and Replacement of Invasive Phreatophytes, Phase II; 3) **Approving RT:** Southwest Basin Round Table; 4) **CWCB Date:** 6/1/2020; 5) **Contract number:** POGG1,PDAA,202000003096, 6) **Other CWCB funds:** 0%7) **Completion Date:** 12/1/2022

WSRF 2019: 1) **Applicant:** Mountain Studies Institute (MSI); 2) **Project Name:** Forests to Faucets (F2F): My Water Comes from the San Juan Mountains Teacher Training Workshop Series; 3) **Approving RT:** Southwest Basin Round Table; 4) **CWCB Date:** 4/4/19; 5) **Contract number:** POGG1,PDAA,201900002804, 6) **Other CWCB funds:** 0% 7) **Completion Date:** 01/31/22

WSRF 2019: 1) **Applicant:** Mountain Studies Institute (MSI) on behalf of 416-Fire Aquatic Monitoring Research Group; 2) **Project Name:** 416-Fire Aquatic Monitoring; 3) **Approving RT:** Southwest Basin Round Table; 4) **CWCB Date:** 4/4/19; 5) **Contract number:** POGG1, PDAA, 201900002894; 6) **Other CWCB funds:** 0% 7) **Completion Date:** 5/1/22

WSRF 2019: 1) **Applicant:** Mountain Studies Institute (MSI); 2) **Project Name:** Upper San Juan Watershed Enhancement Partnership (WEP) Multiple Use Project; 3) **Approving RT:** Southwest Basin Round Table; 4) **CWCB Date:** 10/10/19; 5) **Contract number:** POGG1, PDAA 202000002332; 6) **Other CWCB funds:** 25% 7) **Completion Date:** 6/30/22

CWRP and WSRF 2020: 1) **Applicant:** Mountain Studies Institute (MSI); 2) **Project Name:** Upper San Juan Basin Integrated Water Management Plan, Phase II; 3) **Approving RT:** Southwest Basin Round Table; 4) **CWCB Date:** March 2020; 5) **Contract number:** POGG1, PDAA, 202000003065; 6) **Other**



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Previous CWCB Grants

CWCB funds: 20.7% **7) Completion Date:** 5/31/22

WSRF 2020: 1) Applicant: Mountain Studies Institute (MSI) on behalf of 416-Fire Aquatic Monitoring Research Group; **2) Project Name:** 416-Fire Aquatic Monitoring, Year 2; **3) Approving RT:** Southwest Basin Round Table; **4) CWCB Date:** March 2020; **5) Contract number:** POGG1, PDAA, 202000003020; **6) Other CWCB funds:** 0% **7) Completion Date:** 11/30/2021

Colorado Water Plan 2018: 1) Applicant: Mountain Studies Institute (MSI); **2) Project Name:** WPG GF, Animas River Community Forum; **3) Approving RT:** Southwest Basin Round Table; **4) CWCB Date:** July 2020; **5) Contract number:** POGG1, PDAA, 202100002293, **6) Completion Date:** 6/30/2022

Colorado Water Plan 2020: 1) Applicant: Mountain Studies Institute; **2) Project Name:** Animas River Removal and Replacement of Invasive Phreatophytes, Phase II Continuation and Strategic Mapping; **3) Approving RT:** Southwest Basin Round Table; **4) CWCB Date:** 7/30/2020; **5) Contract number:** POGG1,PDAA,202100002090; **6) Other CWCB funds:** 30.6% **7) Completion Date:** 9/30/2022

Tax Payer Bill of Rights

The Tax Payer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect the applicant.

NA



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<https://cwcb.colorado.gov/>

Colorado Water Conservation Board	
Water Supply Reserve Fund	
<u>Exhibit A - Statement of Work</u>	
Date:	November 10, 2020
Water Activity Name:	<i>Forests to Faucets (F2F): My Water Comes from the San Juan Mountains Teacher Training Workshop Series</i>
Grant Recipient:	Mountain Studies Institute
Funding Source:	Southwest Basin
Water Activity Overview: (Please provide brief description of the proposed water activity (no more than 200 words). Include a description of the overall water activity and specifically what the WSRF funding will be used for. (PLEASE DEFINE ALL ACRONYMS).)	
<p>The purpose of the Forests to Faucets Teacher Training Workshop Series is to train 15-20 teachers about the importance and interconnection of healthy watersheds to area water supplies through a multi-day field-based course, including educational tours. The COVID19 pandemic has put enormous pressures on educators, and the support offered through this workshop is needed now more than ever. Through needs assessment surveys conducted throughout 2020, teachers have requested non-screen-based educational tools. This training empowers educators to include place-based watershed education in their lesson plans and engage students to think critically about Colorado's water issues. This workshop is appropriate for teachers of K-12 classrooms and rotates each year between the Animas/San Juan River watershed (Durango and Silverton), the Upper San Juan watershed (Pagosa Springs), and the Mancos/Dolores River watershed (Mancos, Dolores, and Cortez). The Forest-to-Faucets education partnership contributes to Southwest Conservation District's and Southwest Basin Roundtable's Education Action Plan priority to provide water education for constituents in the region (Southwest Basin's Public Education, Participation, and Outreach Implementation Plan).</p>	



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Objectives: (List the objectives of the project. (PLEASE DEFINE ACRONYMS)).

The objectives of the Forests to Faucets: My Water Comes from the San Juan Mountains Teacher Training Workshop Series include:

- Support the educational community during the COVID-19 pandemic with non-screen-based tools
- Train 15-20 teachers about the importance and interconnection of healthy watersheds to area water supplies through a two-day field-based course, including an educational tour
- Each participating teacher will graduate with a copy of the *My Water* teacher guide and book and each school will receive a My Water kit which contains materials to complete activities in the teacher guide.
- Upon integration of the curriculum into their classrooms, it is estimated that these teachers will bring watershed science to an additional 300-450 students per year.
- Additionally, the workshop will offer graduate credit (in the form of continuing education credit) from Adams State University, helping to grow the credentials of our local teachers.

The long-term goal of regularly providing this workshop is to build teachers' capacity for teaching watershed science across the region by providing place-specific knowledge and activities that can easily be integrated in science, math, and social studies curricula.

Tasks

Provide a detailed description of each task using the following format: (PLEASE DEFINE ACRONYMS)

Task 1 - Planning, Coordination, and Reporting

Description of Task:

The Forests to Faucets (F2F) Team will design a multi-day workshop to explore issues within the San Juan River Basin, each year in 2021, 2022, and 2023. In order to accommodate safety precautions during the pandemic, the F2F team will explore new models for presenting our workshop. Each year the workshop will rotate through watersheds, with activities based in and around the Mancos/Dolores/Cortez area in 2021, Durango and Silverton areas in 2022, in and around the Pagosa Springs area in 2023, and the, representing a full cycle to explore the Mancos/Dolores, Animas, and upper San Juan watersheds, respectively. The intent of the workshop series is to bring awareness to the complex issues intertwined with post-wildfire impacts to watersheds, river ecology, forest health, and water management.

Method/Procedure:



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<https://cwcb.colorado.gov/>

Tasks
<p>The F2F team will spend time in winter/spring of each year to work with area land and water managers to assemble a host of content experts to meet with the educators during the summer workshop. We will also choose locations for the field tours to illustrate the concepts of the workshop. These locations will serve as example field trips that teachers may later bring students to experience. The F2F team may employ virtual methods of communication between content experts and educators. Virtual tours may also be employed, but socially-distanced field trips will be planned when possible.</p> <p>In spring of each year, the F2F team will do a “practice run” to ensure access points to all locations for the field trips. F2F team members will recruit educators from the communities of Bayfield, Cortez, Dove Creek, Durango, Ignacio, Mancos, Pagosa Springs, Rico, Silverton, Telluride, and other surrounding areas within Colorado. The F2F team will order all equipment needed for the teacher kits, assemble the kits, assemble lesson packets, create thumb drives of all teacher materials, finalize the agenda, and prepare all materials for the Summer workshop series.</p> <p>At the conclusion of the workshop, teachers will fill out a written evaluation of the workshop. The following fall, the F2F team will follow up with all participants to see how the lessons are being used in their classrooms. A final report, including all teacher feedback and examples of the F2F materials being used in the classroom, will be compiled.</p>
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
The F2F team expects to hold a successful workshop each summer with 15-20 educators attending. We expect to receive positive feedback from written evaluations, as evidenced in past workshops. Additionally, we will create an incentive for participants to report on the use of the F2F materials in the classroom by returning each participant’s deposit for the workshop after they have turned in their impact report to our team.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
The F2F team will provide a report of the workshop outcomes, which will include teacher feedback, as well as photos/videos, and written descriptions from teachers about the use of the F2F materials in their classroom. We will report the annual impacts of the program.

Tasks
Provide a detailed description of each task using the following format: (PLEASE DEFINE ACRONYMS)
<u>Task 2 - Teacher Training Workshop Implementation</u>
Description of Task:



Last Update: March 17, 2020

<https://cwcb.colorado.gov/>

Tasks
<p>The F2F Team will implement a two-day workshop each year to explore issues within each respective watershed. Our team will host 15-20 teachers each year. The workshop will be tailored to the current and pertinent issues impacting the region.</p>
<p>Method/Procedure:</p> <p>The F2F team will meet the participants at the designated workshop location for registration and orientation. We will then conduct the field tour, meeting with local experts for a tour and demonstration of topics in water education. The intention is to make the teachers aware of field trip opportunities to enhance “place-based” education for students. Socially-distanced field trips will be held on different days to accommodate smaller groups and eliminate the need for carpooling. The workshop will also include a classroom portion to train teachers on the lessons, equipment, and texts included in the “My Water” kit. The “classroom” portions of the workshop may be held virtually or in outside settings. Teachers will receive a kit, a thumb drive of all content, and the <i>My Water Comes from the San Juan Mountains</i> book to use with their students. All safety measures in regards to the COVID 19 pandemic will be strictly adhered to, including wearing face masks, social distancing, and frequent hand washing.</p>
<p>Grantee Deliverable: (Describe the deliverable the grantee expects from this task)</p> <p>The F2F team expects to hold a successful workshop with 15-20 educators attending. We expect to receive positive feedback from written evaluations, as evidenced in past workshops. Additionally, we create an incentive for participants to report on the use of the F2F materials in the classroom by returning each participant’s deposit for the workshop after they have turned in their impact report to our team.</p>
<p>CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)</p> <p>The F2F team will provide a report of the workshop outcomes, which will include teacher feedback, as well as photos/videos, and written descriptions from teachers about the use of the F2F materials in their classroom. We will report the annual impacts of the program.</p>



Last Update: March 17, 2020

<https://cwcb.colorado.gov/>

Budget and Schedule

Exhibit B - 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. A separate excel formatted Budget is required for engineering costs to include rate and unit costs.

Reporting Requirements

Progress Reports: The grantee shall provide the CWCB a progress report every 6 months, beginning from the date of issuance of a purchase order, or the execution of a contract. The progress report shall describe the status of the tasks identified in the statement of work, including a description of any major issues that have occurred and any corrective action taken to address these issues. The CWCB may withhold reimbursement until satisfactory progress reports have been submitted.

Final Report: At completion of the project, the grantee shall provide the CWCB a Final Report on the grantee'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.

Payments

Payment will be made based on actual expenditures, must include invoices for all work completed and must be on grantee's letterhead. 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.

The CWCB will pay the last 10% of the entire water activity 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 water activity and purchase order or contract will be closed without any further payment. Any entity that fails to complete a satisfactory Final Report and submit to CWCB within 90 days of the expiration of a purchase order or contract may be denied consideration for future funding of any type from CWCB.

Performance Requirements

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 Grant Guidelines, the CWCB will pay out the last 10% of the budget when the final deliverable is completed to the satisfaction of CWCB staff. Once the final deliverable has been accepted, and final payment has been issued, the purchase order or grant will be closed without any further payment.

(b) Accountability: Per the 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 the 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.

Last Update: December 17, 2019



COLORADO

Colorado Water
Conservation Board

Department of Natural Resources

Colorado Water Conservation Board

Water Supply Reserve Fund

EXHIBIT B - BUDGET AND SCHEDULE - Direct & Indirect (Administrative) Costs

Date: November 10, 2020

Water Activity Name: Forests to Faucets (F2F): My Water Comes from the San Juan Mountains Teacher Training Workshop Series

Grantee Name: Mountain Studies Institute

<u>Task No.</u> ⁽¹⁾	<u>Description</u>	<u>Start Date</u> ⁽²⁾	<u>End Date</u>	<u>Matching Funds</u> (cash & in-kind) ⁽³⁾	<u>WSRF Funds</u> (Basin & Statewide combined) ⁽³⁾	<u>Total</u>
Task 1	Planning, Coordination, and Reporting	March 1, 2021	Dec 15, 2023	\$41,146	\$9,494	\$50,639
Task 2	Teacher Training Workshop Implementation	June 1, 2021	June 30, 2023	\$21,834	\$5,169	\$27,003
Task 3	Project/Grant Management	March 1, 2021	Dec 15, 2023	\$2,000	\$1,000	\$3,000
						\$0
Total				\$63,415	\$15,662	\$79,077

(1) The single task that include costs for Grant Administration must provide a labor breakdown (see Indirect Costs tab below) where the total WSRF Grant contribution towards that task does not exceed 15% of the total WSRF Grant amount.

(2) Round values up to the nearest hundred dollars.

• Additional documentation providing a Detailed/Itemized Budget may be required for contracting. Applicants are encouraged to coordinate with the CWCB Project Manager to determine specifics.

The CWCB will pay the last 10% of the entire water activity budget when the Final Report is completed to the satisfaction of the CWCB staff project manager. Once the Final Report has been accepted, the final payment has been issued, the water activity and purchase order (PO) or contract will be closed without any further payment. Any entity that fails to complete a satisfactory Final Report and submit to the CWCB with 90 days of the expiration of the PO or contract may be denied consideration for future funding of any type from the CWCB.

• Additionally, the applicant shall provide a progress report every 6 months, beginning from the date of contract execution





SOUTHWEST BASINS ROUNDTABLE

C/O La Plata Archuleta Water District
PO Box 1377
Ignacio, Colorado 81137

November 20, 2020

Colorado Water Conservation Board
Water Supply Planning Section
WSRF Application
1313 Sherman Street, Room 718
Denver, Colorado 80203

RE: Forest to Faucets
WSRF Grant Request

The Southwest Basins Roundtable approved funding of \$1,566 from the Southwest Basins Roundtable account for the Forest to Faucets. In addition, we are recommending that the Colorado Water Conservation Board approve their request for \$14,096 from the Statewide account. This application was considered fully and approved by the Southwest Basins Roundtable at the November 19, 2020 meeting. There was a quorum of members present at the meeting.

The proposed project meets the Colorado Water Plan's goal 9-5 to educate the public on specific water related issues, it also supports the Southwest Basins Roundtable's Education Action Plan priority to provide water education for constituents in the region as well as Measurable Goals or Outcomes of the Southwest Basins BIP A4) promote dialogue, foster cooperation and resolve conflict among water interest.

The completed Grant Application will be forwarded directly to you by the applicant. Please contact the applicant directly or me at 970-563-0320, etolen@laplawd.org, if you have questions or wish to discuss this application in more detail.

Sincerely,



Edward Tolen
Southwest Basins Roundtable Chair



841 East Second Avenue
Durango, CO 81301
(970) 247-1302

November 9, 2020

Ed Tolen – Chair, Southwest Basin Roundtable

Celene Hawkins – Colorado Water Conservation Board - Chair, San Miguel, Dolores, Animas & San Juan Rivers

Re: Forests to Faucets (F2F): My Water Comes from the San Juan Mountains Teacher Training Workshop Series Proposal, Letters of Commitment

Dear Southwest Basin Roundtable and Colorado Water Conservation Board,

The purpose of this letter is to confirm matching contributions and commitments on behalf of Mountain Studies Institute and our partners. The Water Information Program is offering an annual cash match contribution of \$4,000.00 which includes labor costs for the WIP Coordinator, travel, van for participants, various supplies, food costs for the workshop. Additionally, WIP provides in-kind contributions, estimated at \$50 for printing and office use. The funds will support the planning, preparation, coordination, and facilitation of the Teacher Training Workshop.

This workshop will be held annually, with the planning period occurring from February through June, and the workshop held each June. The funds requested in this proposal will be used in 2021-2023. The above contribution will not be used as match for any other state-funded project, and will be documented in the general accounting records of our organization.

Thank you for your consideration of support for the Forests to Faucets (F2F): My Water Comes from the San Juan Mountains Teacher Training Workshop Series. We appreciate the opportunity to advance water education for our region.

Sincerely,

Elaine Chick
Water Information Program
Manager
elaine@waterinfo.org
970-759-8818



San Juan Mountains Association

EXPLORE ♦ LEARN ♦ PROTECT

November 11, 2020

Re: Forests to Faucets (F2F): My Water Comes from the San Juan Mountains Teacher Training Workshop Series Proposal, Letters of Commitment

Dear Southwest Basin Roundtable and Colorado Water Conservation Board,

The purpose of this letter is to confirm matching contributions and commitments on behalf of Mountain Studies Institute and our partners. The San Juan Mountains Association (SJMA) is seeking grant funding through Great Outdoors Colorado (GOCO) and the Montezuma Inspire Coalition to provide \$3200 in SJMA staff time to support the Forest to Faucets programming. SJMA also expects to contribute our van and gasoline to provide transportation for the workshop, estimated at an additional \$800. SJMA' is pleased to provide these funds and in-kind support as our contribution to the planning, preparation, coordination, and facilitation of the Teacher Training Workshop. The funds requested in this proposal will be used in 2021-2023. The above contribution will not be used as match for any other state-funded project and will be documented in the general accounting records of our organization.

Thank you for your consideration of support for the Forests to Faucets (F2F): My Water Comes from the San Juan Mountains Teacher Training Workshop Series. These workshop has been wildly successful over the years and we appreciate the opportunity to advance water education for our region.

Sincerely,

Brent Schoradt
Executive Director
San Juan Mountains Association