

**Water Supply Reserve Fund  
Water Activity Summary Sheet  
March 21-22, 2018  
Agenda Item 25(y)**

**Applicant & Grantee:** Mountain Studies Institute  
**Water Activity Name:** Stream Management Planning Phase I  
**Water Activity Purpose:** Multi-use Study  
**County:** Archuleta  
**Drainage Basin:** San Juan River Basin  
**Water Source:** Upper San Juan River  
**Amount Requested:** \$22,545 Southwest Basin Account  
**Matching Funds:** Applicant Match (cash & in-kind) = \$86,325

- 115% of the Basin Account request (meets 25% min)
- 79% of the total project cost of \$108,870

<b>Staff Recommendation:</b>
------------------------------

Staff recommends approval of up to \$22,545 from the Southwest Basin Account to help fund the project titled: Eagle River Integrated Water Management Plan.
---

**Water Activity Summary:** WSRF grant funds, if approved, will assist Mountain Studies Institute (MSI) in the development of a Stream Management Plan (SMP) for the Upper San Juan River Basin. The Southwest Basin Roundtable's (SWBRT) Basin Implementation Plan (BIP) identifies a significant gap in information necessary to understand environmental and recreational water needs and describes a two-step process to develop information and initiate collaborative efforts to address identified needs. This project fits squarely within that process. Applying lessons learned in the San Miguel SMP Pilot Program, this project will address the identified information gap by tackling the first critical step: community engagement, development of a stakeholder group, and review of existing data and information.

MSI (applicant), Trout Unlimited, and Western Wildscapes propose convening a stakeholder group to facilitate a community-led process to assess water needs and develop a SMP for the Upper San Juan River Basin. The outcomes of Phase I (this proposal) will be: (1) an organized stakeholder group, led by a steering committee, with the structure, capacity and collective interest in pursuing a coordinated SMP; (2) a review of current data and information; and (3) a work plan for moving forward with a stream assessment and SMP planning. Envisioned as a three-phase process, the ultimate purpose of the project is to initiate the SMP process. MSI will share findings with the stakeholder group and coordinate stakeholder interests and Lotic efforts to develop a scope of work and funding proposal for moving forward with the Phase II of the SMP.

**Discussion:** As described in the Southwest basin roundtable (BRT) chair's recommendation letter, this project was supported and recommended for approval by the roundtable on January 10, 2018. The Upper San Juan River Basin SMP is identified as one of the SWBRT IPP's, PP# 17-SJ and aligns with other San Juan River Sub-Basin efforts and is consistent with the SWBRT IPP #1-MB

related to address environmental and recreational needs. Further, activities outlined in this effort will work in coordination with and support of concurrent IPP's, namely the San Juan Headwaters Forest Health Partnership (IPP #4). In working with the Partnership, this SMP effort will capitalize on a unique opportunity to establish forest and watershed health connections in both data review processes and project prioritization.

This project assists in satisfying Colorado's Water Plan Critical Goals and Actions as identified in *Chapter 10.3, F. Watershed Health and Environment* and *Chapter 10.3, H. Education, Outreach, and Innovation* which includes the development of watershed coalitions and watershed master plans that address the needs of a diverse set of local stakeholders. Because a stakeholder group to coordinate efforts in the Upper San Juan Basin does not currently exist, this proposal is a critical first step toward the success of any SMP efforts. In developing this proposal, MSI and partners conducted an assessment of historic efforts and will continue to build off of local efforts and findings.

**Issues/Additional Needs:** No 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 Summary / Matching Funds:**

<b><u>Funding Source</u></b>	<b><u>Cash</u></b>	<b><u>In-Kind</u></b>	<b><u>Total</u></b>	<b><u>Pending</u></b>
Mountain Studies Institute	\$1,000	\$0	\$1,000	Secured
Trout Unlimited, Five Rivers Chapter	\$1,000	\$0	\$1,000	Secured
San Juan Water Conservancy District	\$1,000	\$0	\$1,000	Secured
The Nature Conservancy	\$2,000	\$0	\$2,000	Secured
CWCB Colorado Watershed Restoration Program	\$45,090	\$0	\$45,090	Secured
Southwest Water Conservation District	\$13,945	\$0	\$13,945	Pending
Pagosa Area Water and Sanitation District	\$2,000	\$0	\$2,000	Pending
Town of Pagosa Springs	\$1,600	\$0	\$1,600	Pending
Collective In-kind	\$0	\$18,690	\$0	Secured
<b>Sub-total</b>	<b>\$67,635</b>	<b>\$18,690</b>	<b>\$86,325</b>	
WSRF Southwest Basin Account	\$22,545	n/a	\$22,545	
<b>Totals</b>	<b>\$90,180</b>	<b>\$18,690</b>	<b>\$108,870</b>	

**CWCB Project Manager:** Megan Holcomb

**SOUTHWEST BASINS ROUNDTABLE**

**Michael Preston, Chair**

**c/o Dolores Water Conservancy District**

**P.O. Box 1150**

**Cortez, Colorado 81321**

**970-565-7562**

January 11, 2018

Megan Holcomb

Water Supply Management Section

Colorado Water Conservation Board

1580 Logan Street, Suite 600

Denver, Colorado 80203

SUBJECT: Stream Management Plan Upper San Juan Basin - \$22,545 from Basin Fund Account

Dear Ms. Holcomb:

The Southwest Basin Roundtable approved funding of \$22,545 from the Basin Fund to the Mountain Studies Institute for the Stream Management Plan, Upper San Juan Basin. The application was considered in detail at the January 11, 2018 meeting of the Southwest Basin Roundtable. There was a quorum of Roundtable members present.

This Project addresses Measurable Goals and Outcomes of the Southwest Basin Implementation Plan including: A4: Promote dialogue, foster cooperation among water interests . . . A5: Maintain watershed health . . . D1: Maintain, protect, enhance recreational values and economic values . . . E1: Encourage and support sustainability of riparian dependent fish and plant species, E2: Protect, monitor . . . wetlands and riparian areas. The project also addresses Colorado Water Plan Goals and Measurable Outcomes: F1: Watershed Health Environment and Recreation and H1: Education, Outreach and Innovation.

The completed Grant Application will be forwarded directly to you by the applicant. Please contact the applicant directly or me at 970-565-7562, [mpreston@frontier.net](mailto:mpreston@frontier.net), if you have questions or wish to discuss this application in more detail.

Sincerely,



Michael Preston

Southwest Basin Roundtable Chair



## Colorado Water Conservation Board

### Water Supply Reserve Fund Grant Application

#### Instructions

All WSRF grant applications shall conform to the current [2016 WSRF Criteria and Guidelines](#).

To receive funding from the WSRF, a proposed water activity must be approved by a Roundtable(s) **AND** the Colorado Water Conservation Board (CWCB). The process for Roundtable consideration and recommendation is outlined in the 2016 WSRF Criteria and Guidelines. The CWCB meets bimonthly according to the schedule on page 2 of this application.

If you have questions, please contact the current CWCB staff Roundtable liaison:

#### Arkansas

Ben Wade  
[ben.wade@state.co.us](mailto:ben.wade@state.co.us)  
303-866-3441 x3238

#### Gunnison | North Platte | South Platte | Yampa/White

Craig Godbout  
[craig.godbout@state.co.us](mailto:craig.godbout@state.co.us)  
303-866-3441 x3210

#### Colorado | Metro | Rio Grande | Southwest

Megan Holcomb  
[megan.holcomb@state.co.us](mailto:megan.holcomb@state.co.us)  
303-866-3441 x3222

#### WSRF Submittal Checklist (Required)

x	I acknowledge this request for funding was recommended for CWCB approval by the sponsoring Basin Roundtable(s).
x	I acknowledge I have read and understand the <a href="#">2016 WSRF Criteria and Guidelines</a> .
x	I acknowledge the Grantee will be able to contract with CWCB using the <a href="#">Standard Contract</a> . <sup>(1)</sup>
Exhibit A	
x	<a href="#">Statement of Work</a> <sup>(2)</sup> (Word – see Exhibit A)
x	<a href="#">Budget &amp; Schedule</a> <sup>(2)</sup> (Excel Spreadsheet – see Exhibit A)
x	Letters of Matching and/or Pending 3 <sup>rd</sup> Party Commitments <sup>(2)</sup>
Exhibit B	
x	Map <sup>(2)</sup>
	Photos/Drawings/Reports
x	Letters of Support
x	Certificate of Insurance <sup>(3)</sup> (General, Auto, & Workers' Comp.)
Exhibit C	
x	Team Qualifications
x	Scope of Work, Lotic Hydrological LLC
Contracting Documents	
	Certificate of Good Standing <sup>(3)</sup>
	W-9 <sup>(3)</sup>
	Independent Contractor Form <sup>(3)</sup> (If applicant is individual, not company/organization)
	Electronic Funds Transfer (ETF) Form <sup>(3)</sup>



- (1) Click "Grant Agreements". For reference only/do not fill out or submit/required for contracting  
 (2) Required with application if applicable.  
 (3) Required for contracting. While optional at the time of this application, submission can expedite contracting upon CWCB Board approval.

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

Desired Timeline	
Desired CWCB Hearing Month:	March, 2018
Desired Notice to Proceed Date:	April, 2018

Water Activity Summary		
Name of Applicant	Mountain Studies Institute	
Name of Water Activity	Stream Management Planning	
Approving Roundtable(s)	Basin Account Request(s) <sup>(1)</sup>	
Southwest Basin Roundtable	\$22,545	
Basin Account Request Subtotal	\$22,545	
Statewide Account Request <sup>(1)</sup>	\$0	
Total WSRF Funds Requested (Basin & Statewide)	\$22,545	
Total Project Costs	\$108,870	



Grantee and Applicant Information	
Name of Grantee(s)	Mountain Studies Institute
Mailing Address	1309 E 3 <sup>rd</sup> Ave, Suite 109 Durango, CO
FEIN	
Grantee's Organization Contact <sup>(1)</sup>	Marcie Bidwell
Position/Title	Executive Director
Email	marcie@mountainstudies.org
Phone	970-387-5161
Grant Management Contact <sup>(2)</sup>	<u>Carolyn Moller</u>
Position/Title	Finance Director
Email	finance@mountainstudies.org
Phone	970-387-5161
Name of Applicant (if different than grantee)	Aaron Kimple
Mailing Address	Project Director of Forest Health
Position/Title	akimple@mountainstudies.org
Email	970-387-5161
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).
<p><b>Mountain Studies Institute (MSI)</b> is a 501(c)(3) non-advocacy research and education institute, based in southwest Colorado since 2002. MSI has been asked to serve as the primary applicant/fiscal agent for this collaborative effort through our leadership in coordinating the San Juan Headwaters Forest Health Partnership in Pagosa Springs and other stakeholder-driven efforts ( "Team Qualifications", Exhibit C). MSI's mission is to empower communities, managers, and scientists to innovate solutions through research, education and practice. MSI and partners, Trout Unlimited and Western Wildscapes, are committed to a community-driven process that incorporates consumptive and non-consumptive uses, to include E &amp; R values.</p>



Type of Eligible Entity (check one)	
	<b>Public (Government):</b> 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.
	<b>Public (Districts):</b> authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises
	<b>Private Incorporated:</b> mutual ditch companies, homeowners associations, corporations
	<b>Private Individuals, Partnerships, and Sole Proprietors:</b> are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
x	<b>Non-governmental organizations:</b> broadly, any organization that is not part of the government
	<b>Covered Entity:</b> as defined in <a href="#">Section 37-60-126 Colorado Revised Statutes</a>

Type of Water Activity (check one)	
x	Study
	Implementation

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

Location of Water Activity	
Please provide the general county and coordinates of the proposed activity below in <b>decimal degrees</b> . The Applicant shall also provide, in Exhibit C, a site map if applicable.	
County/Counties	Archuleta County
Latitude	37°16'10.05"N
Longitude	107° 0'35.14"W



### Water Activity Overview

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. The Applicant shall also provide, in Exhibit A, a detailed Statement of Work, Budget, and Schedule.

MSI (applicant), Trout Unlimited (TU), and Western Wildscapes (WW) propose convening a stakeholder group to facilitate a community-led process to assess water needs and develop a Stream Management Plan (SMP) for the Upper San Juan River Basin. The Southwest Basin Roundtable's (SWBRT) Basin Implementation Plan (BIP) identifies a significant gap in information necessary to understand environmental and recreational (E&R) water needs and describes a two-step process to develop information and initiate collaborative efforts to address identified needs (SMP at p. 36). This project fits squarely within that process.

Applying lessons learned in the San Miguel SMP Pilot Program, this project will address the identified information gap by tackling the first critical step: community engagement, development of a stakeholder group, and review of existing data and information.

The outcomes of Phase I (this proposal) will be: (Task 1) an organized stakeholder group, led by a steering committee, with the structure, capacity and collective interest in pursuing a coordinated SMP; (Task 2) a review of current data and information; and (Task 3) a work plan for moving forward with a stream assessment and SMP planning.

Envisioned as a three-phase process, the ultimate purpose of the project is to initiate the SMP process.

### 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





Measurable Results		
x	Other	Explain: local, community-driven stakeholder group formed and capable of identifying water supply needs and collaboration opportunities..

### Water Activity Justification

The Upper San Juan River Basin SMP is identified as one of the SWBRT IPP's, PP# 17-SJ and aligns with other San Juan River Sub-Basin efforts and is consistent with the SWBRT IPP #1-MB related to address environmental and recreational needs (outlined in further detail in Table 1.1. below). Further, activities outlined in this proposal will work in coordination with and support of concurrent IPP's, namely the San Juan Headwaters Forest Health Partnership (IPP #4). In working with the Partnership, this SMP effort will capitalize on a unique opportunity to establish forest and watershed health connections in both data review processes and project prioritization.

The success and relevance of stream management planning efforts are highly dependent upon stakeholder engagement. Because a stakeholder group to coordinate efforts in the Upper San Juan Basin does not currently exist, this proposal is a critical first step toward the success of any SMP efforts. In developing this proposal, MSI and partners conducted an assessment of historic efforts and will continue to build off of local efforts and findings. Some of these efforts include, but are not limited to: the Stollsteimer Creek Watershed Master Plan (2006), Rio Blanco forest restoration efforts, San Juan National Forest Plan (Pagosa and Columbine Ranger Districts), San Juan River Protection Workgroup (2011), Town of Pagosa's efforts for river restoration, Town of Pagosa's Comprehensive Plan Revision, and Archuleta County Master Plan revision.

The Upper San Juan River Basin SMP, Phase I alignment with BIP goals & the Colorado Water Plan are identified in Tables 1.1 and 1.2 below, respectively. While this project aligns with the overwhelming majority of the Southwest Basin Implementation Plan's Goals and Measurable Outcomes, those outlined in the table below are ones that the applicant feels the proposed project will most effectively support or accomplish.

**Table 1.1: Alignment with SW Basin Implementation Plan**

GOAL	MEASURABLE OUTCOME	PROJECT-RELATED MEASURABLE OUTCOME
A2: Support specific and unique new IPPs important	Supports achievement of outcomes 2-5	The Upper San Juan Basin SMP will support these



<p>to maintaining the quality of life in this region, and to address multiple purposes including municipal, industrial, environmental, recreational, agricultural, risk management, and compact compliance needs.</p>		<p>outcomes by convening a working watershed group that promotes <b>dialogue</b> and <b>fosters cooperation</b> while establishing a safe, productive space to <b>resolve conflict</b>. The development of this working group and first Phase of an SMP advance BIP goals of protecting critical infrastructure and/or environmental and recreational areas by gathering relevant data and conducting future assessments to better prioritize work that achieves those goals. Finally, <b>by working closely with members of the San Juan Headwaters Forest Health Partnership (IPP#4)</b>, this proposal will provide information and support to develop plans that <b>protect critical water infrastructure post-fire</b>.</p>
<p>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 challenge (<i>SWSI 2010</i>).</p>	<p>Supports outcome 3</p>	<p><b>The time allotted in this proposal for a thorough, open and inclusive development of a working watershed group will promote dialogue and foster cooperation among water interests.</b> Stakeholders will be asked to identify values, and to define a scope of work for Phase II based on those values.</p>



A5: Maintain watershed health by protecting and/or restoring watersheds that could affect critical infrastructure and/or environmental and recreational values.		This project will take a first critical step toward assessing and ultimately maintaining watershed health by assessing available data and developing a plan to address critical data gaps.
D1: Maintain, protect and enhance recreational values and economic values to local and statewide economies derived from recreational water uses, such as fishing, boating, hunting, wildlife watching, camping and hiking.	Supports achievement of outcome 3	While the first Phase of this project will not yet identify projects that protect recreational and economic values, <b>the data review in this first Phase and scope of work for a watershed assessment (Phase II), will fill critical gaps in data about recreational values and opportunities in the basin.</b>
E1: Encourage and support restoration, recovery, and sustainability of endangered, threatened, and imperiled aquatic and riparian dependent species and plant communities.	Supports, or assists, in achievement of outcomes 1-5	The goal of this Phase I of the project is to establish a diverse stakeholder group that can seek opportunities to meet this goal through collaboratively identifying potential issues. Phases II/III would develop collaborative solutions for identified issues.
E2: Protect, maintain, monitor and improve the condition and natural function of streams, lakes, wetlands, and riparian areas to promote self-sustaining fisheries, and to support native species and functional habitat in the long term, and adapt to changing	Supports, or assists, in achievement of outcomes 1-5.	The goal of this Phase I of the project is to establish a diverse stakeholder group that can seek opportunities to meet this goal through collaboratively identifying potential issues. Phases II/III would develop collaborative solutions for



conditions.		identified issues.
F1: Monitor, protect and improve water quality for all classified users	Supports achievement of outcome 1 & 2	The first critical step of monitoring and improving water quality is establishing a baseline and identifying opportunities for improvement. <b>The data review included in Phase I of the proposed project will help to establish said baseline, and the development of a scope of work for Phase II (watershed assessment) will fill data gaps critical for identifying prioritizing projects and opportunities.</b>

**Table 1.2: Project Alignment with Colorado Water Plan**

GOAL	PROJECT-RELATED MEASURABLE OUTCOME
<b>F1: Watershed Health, Environment &amp; Recreation</b> Colorado's Water Plan sets a measurable objective to cover 80 percent of local priority rivers with stream management plans, and 80 percent of critical watersheds with watershed protection plans, all by 2030.	The proposed project will support this goal by establishing a critical framework and an action plan for the development of an SMP in the San Juan River Basin. <b>Further, this community-driven effort offers the opportunity for local prioritization of projects and values.</b>
<b>H1: Education, Outreach, and Innovation:</b> Colorado's Water Plan sets a measurable objective to significantly improve the level of public awareness and engagement	By engaging a diverse group of local stakeholders and hosting community meetings, the proposed project improves the level of both public awareness and engagement regarding water issues and engages them in the process of identifying values and establishing a route forward for an SMP that



<p>regarding water issues statewide by 2020, as determined by water awareness surveys. Colorado's Water Plan also sets a measurable objective to engage Coloradans statewide on at least five key water challenges (identified by CWCB) that should be addressed by 2030.</p>	<p>addresses those values and fills critical data gaps.</p>
---	---



### Matching Requirements: Basin Account Requests

**Basin (only) Account** grant requests require a 25% match (cash and/or in-kind) from the Applicant or 3<sup>rd</sup> party and shall be accompanied by a **letter of commitment** as described in the 2016 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)
Mountain Studies Institute	\$1000 (cash, committed)
Trout Unlimited, Five Rivers Chapter	\$1,000 (cash, committed)
San Juan Water Conservancy District	\$1,000 (cash, committed)
The Nature Conservancy	\$2,000 (cash, committed)
CWCB Colorado Watershed Restoration Program (Stream Management Planning)	\$45,090 (cash, requested)
Southwest Water Conservation District	\$13,945 (cash, requested)
Pagosa Area Water and Sanitation District	\$2,000 (cash, requested)
Town of Pagosa Springs	\$1,600 (cash, requested)
In Kind	\$18,690 (in-kind)
Total Match	\$ 86,325
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 2016 WSRF Criteria and Guidelines. A minimum of 10% match shall be from Basin Account funds (cash only). A minimum of 10% match shall be provided by the applicant or 3<sup>rd</sup> party (cash, in-kind, or combination). The remaining 30% of the required match may be provided from any other source (Basin, applicant, or 3<sup>rd</sup> party) 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):
Total Match	\$
If you requested a Waiver to the Statewide Account matching, indicate % you wish waived. (Max 50% reduction of requirement).	



### 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.

Information developed through this project can be used in future updates of the CWCB's State Water Supply Index (SWSI).

### 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

**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) Completion Date:** April 2018

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

### 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