

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(r)**

Applicant & Grantee: Mountain Studies Institute

Water Activity Name: Upper San Juan Integrated Water Management Planning – Phase 2

Water Activity Purpose: Multi-Purpose - Study

County: Archuleta & Mineral

Drainage Basin: Southwest

Water Source: San Juan River

Amount Requested: \$42,957 Southwest Basin Account

Matching Funds: Applicant Match & 3rd Parties (cash & in-kind) = \$150,162
• 350% of the Basin Account request (meets 25% min)

Staff Recommendation:

Staff recommends approval of up to \$42,957 from the Southwest Basin Account to help fund the project: Upper San Juan Integrated Water Management Planning – Phase 2.

Water Activity Summary: WSRF Funds, if approved will assist the Mountain Studies Institute develop an understanding of the community's water-related values, environmental and recreational (E&R) water supply needs, and agricultural irrigation structural needs; and to identify and evaluate opportunities for projects to benefit the diversity of water users present in the upper San Juan Basin. This process will evaluate current and future water needs using both community input and scientific analysis, with the ultimate goal of outlining an assessment that can prioritize projects and methods to meet those needs. Informed by coordinated efforts from Phase I (2018-2019), Phase II of the project will develop an assessment to analyze and model needs for environmental, recreational, and agricultural water uses as well identify projects that benefit multiple user groups. This assessment will inform the development of a stream management/integrated water management plan and potentially project implementation in Phase III.

Discussion: This effort will assist the Southwest Basin Roundtable meet the Goals and Measurable Outcomes F1, H1, A2, A4, A5, D1, E1, and E2 as described in their Basin Implementation Plan and the SWBRT Chair's Recommendation Letter.

Issues/Additional Needs: The applicant shall provide all outstanding letter of matching commitment prior to entering into a grant contract with the state, otherwise there are no issues or additional needs.

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
Mountain Studies Institute	\$1,957	\$0	\$30,014	Secured
Colorado State University	\$0	\$700	\$700	Secured
Banded Peak Ranch	\$11,000	\$0	\$11,000	Secured
NRCS	\$0	\$8,000	\$8,000	Pending
San Juan Conservation District	\$2,030	\$0	\$2,030	Secured
Trout Unlimited	\$2,000	\$8,000	\$10,000	Secured
CWCB Watershed Restoration Program Grant	\$85,914	\$0	\$85,914	Secured
Southwest Water Conservancy District	\$17,158	\$0	\$17,518	Secured
San Juan Water Conservancy District	\$2,000	\$0	\$2,000	Secured
Pagosa Tourism Board	\$2,500	\$0	\$2,500	Secured
Town of Pagosa Springs	\$2,500	\$0	\$2,500	Secured
The Nature Conservancy	\$1,000	\$0	\$1,000	Secured
Watershed Enhancement Partnership	\$0	\$5,043	\$5,043	Secured
Sub-total	\$128,419	\$21,743	\$150,162	
WSRF Southwest Basin Account	\$42,957	\$0	\$42,957	Secured
Total Project Costs	\$171,376	\$21,743	\$193,119	

CWCB Project Manager: Craig Godbout

SOUTHWEST BASINS ROUNDTABLE

Michael Preston, Chair

c/o Dolores Water Conservancy District

P.O. Box 1150

Cortez, Colorado 81321

970-565-7562

January 17, 2020

Craig Godbout

Water Supply Management Section

Colorado Water Conservation Board

1580 Logan Street, Suite 600

Denver, Colorado 80203

SUBJECT: SWBRT Approval Upper San Juan Integrated Water Management, Phase II,
\$42,957 from the Basin Account

Dear Craig:

The Southwest Basin Roundtable (SWBRT) approved funding for the Upper San Juan Integrated Water Management, Phase II in the amount of \$42,957 from the Basin Fund at our January 15, 2015 Roundtable meeting. A quorum of Roundtable members was present.

The Project conforms with the Colorado Water Plan Environmental and Recreational Projects Goals: F1: Watershed Health Environment and Recreation; H1: Education, Outreach and Innovation. The project also conforms with the Southwest BIP Goals A2: Protect quality of life by addressing multiple purposes; A4: Promote dialogue, foster cooperation; A5: Maintain watershed health that affect critical infrastructure and/or environmental and recreational areas; D1: Maintain, enhance recreational and economic values; E1: Monitor and improve imperiled aquatic and riparian species; E2: Maintain, monitor, improve natural function of streams, support native species; and FI: Monitor, protect and improve water quality for all classified users.

The completed Grant Application will be forwarded directly to you by the applicant. Please contact the applicant directly or me at 970-739-4181, or mpreston@frontier.net, if you have questions or wish to discuss this application in more detail.

Sincerely,



Michael Preston

Southwest Basin Roundtable Chair



Last Update: July 31, 2018

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
303-866-3441 x3238

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

Craig Godbout
craig.godbout@state.co.us
303-866-3441 x3210

**Colorado | Metro | Rio Grande |
Southwest**

Megan Holcomb
megan.holcomb@state.co.us
303-866-3441 x3222

WSRF Submittal Checklist (Required)
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X	I acknowledge this request was recommended for CWCB approval by the sponsoring roundtable.
X	I acknowledge I have read and understand the 2016 WSRF Criteria and Guidelines .
X	I acknowledge the Grantee will be able to contract with CWCB using the Standard Contract . ⁽¹⁾
Application Documents	
X	Exhibit A: Statement of Work ⁽²⁾ (<i>Word – see Template</i>)
X	Exhibit B: Budget & Schedule ⁽²⁾ (<i>Excel Spreadsheet – see Template</i>)
X	Letters of Matching and/or Pending 3 rd Party Commitments ⁽²⁾
X	Map ⁽²⁾
	Photos/Drawings/Reports
X	Letters of Support
Contracting Documents⁽³⁾	
X	Detailed/Itemized Budget ⁽³⁾ (<i>Excel Spreadsheet – see Template</i>)
X	Certificate of Insurance ⁽⁴⁾ (<i>General, Auto, & Workers' Comp.</i>)
X	Certificate of Good Standing ⁽⁴⁾
X	W-9 Form ⁽⁴⁾
	Independent Contractor Form ⁽⁴⁾ (<i>If applicant is individual, not company/organization</i>)
X	Electronic Funds Transfer (ETF) Form ⁽⁴⁾

(1) Click "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	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 2020
Desired Notice to Proceed Date:	April 2020

Water Activity Summary		
Name of Applicant	Mountain Studies Institute on behalf of the Upper San Juan Watershed Enhancement Partnership	
Name of Water Activity	Upper San Juan Integrated Water Management Planning, Phase II	
Approving Roundtable(s)	Basin Account Request(s) ⁽¹⁾	
Southwest Basin Roundtable	\$ 42,957	
Basin Account Request Subtotal	\$ 42,957	
Statewide Account Request ⁽¹⁾	\$	
Total WSRF Funds Requested (Basin & Statewide)	\$ 42,957	
Total Project Costs	\$ \$171,827	

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



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Grantee and Applicant Information	
Name of Grantee(s)	Mountain Studies Institute
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⁾	<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	679 East 2nd Ave, Suite 8, Durango, CO 81301
Position/Title	Program Director of Forest Health
Email	akimple@mountainstudies.org
Phone	970-387-5161

(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>Mountain Studies Institute (MSI) is a 501(c)(3) non-advocacy research and education institute, based in southwest Colorado since 2002. MSI's mission is to empower communities, managers, and scientists to innovate solutions through research, education and practice. MSI is the coordinator and fiscal sponsor for the Upper San Juan Watershed Enhancement Partnership (WEP), a group created for the purpose of exploring opportunities to work collaboratively for the benefit of all water uses in the San Juan Basin.</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: 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)	
X	Study
	Implementation

Category of Water Activity (check all that apply)		
X	Nonconsumptive (Environmental)	
X	Nonconsumptive (Recreational)	
X	Agricultural	
	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 decimal degrees . The Applicant shall also provide, in Exhibit C, a site map if applicable.	
County/Countries	Archuleta County
Latitude	37°16'10.05"N
Longitude	107° 0'35.14"W

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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.

The project area is situated in the San Juan Basin on a subset of rivers and streams in Archuleta and Mineral counties, focusing primarily on the Upper San Juan from the Continental Divide to the confluence with Mill Creek. Additionally, the agricultural water needs assessment will expand into the Navajo and Rio Blanco basins.

The overall purpose of the project is to develop an understanding of the community's water-related values, environmental and recreational (E&R) water supply needs, and agricultural irrigation structural needs; and to identify and evaluate opportunities for projects to benefit the diversity of water users present in the upper San Juan Basin.

This process will evaluate current and future water needs using both community input and scientific analysis, with the ultimate goal of outlining an assessment that can prioritize projects and methods to meet those needs. Informed by coordinated efforts from Phase I (2018-2019), Phase II of the project will develop an assessment to analyze and model needs for environmental, recreational, and agricultural water uses as well identify projects that benefit multiple user groups. This assessment will inform the development of an stream management/integrated water management plan and potentially project implementation in Phase III.

Please see Exhibit A for detailed objectives and tasks.

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
X	Other	Explain: Technical analysis and mapping of multiple water uses in the San Juan Basin, informed by local stakeholder groups, to identify needs, priorities, and collaboration opportunities.

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Water Activity Justification

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).

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 [2016 WSRF Criteria and Guidelines](#)).

According to page 1 of the Southwest Basin Roundtable Basin Implementation Plan (BIP):

"With respect to the Southwest Basin Roundtable's Environmental and Recreational (E&R) values and water needs, the Roundtable recognizes that there are significant gaps in the data and understanding regarding the flows and other conditions necessary to sustain these values. The Roundtable also recognizes the tools currently available to help maintain those conditions are limited across the state, including the San Juan Basin. The Roundtable has identified two methods that it hopes can help address and bridge this need for additional information and tools, including:

1. Evaluation of environmental and or recreation gaps is planned to be conducted for improvement of non-consumptive resources and/or in collaborative efforts with development of consumptive IPPs. The evaluations may be conducted by a subgroup of the Roundtable or by individuals, groups, or organizations with input from the Roundtable. The evaluation may utilize methodologies such as the southwest attribute map, flow evaluation tool, R2 Cross, and any other tools that may be available.
2. Where environmental and/or recreational gaps are identified, a collaborative effort will be initiated to develop innovative tools to protect water identified as necessary to address these gaps."

Both the Colorado Water Plan and Roundtable Basin Implementation Plan (BIP) provide support to address E&R needs through stream management planning and recognize the success and relevancy of such processes are highly dependent upon stakeholder engagement. For the San Juan Basin, the community values and issues identified by the stakeholder group, now called the Upper San Juan Watershed Enhancement Partnership (WEP) established in Phase I of the project, determined it was necessary to analyze multiple water uses in the basin. Based on the feedback from stakeholders in the Upper San Juan, Navajo, Blanco, and Piedra watersheds gathered in Phase I, this project has evolved from the environmental and recreation focus of stream management plans into an Integrated Water Management Plan (IWMP) in order to include multiple water uses, including E&R needs, in the assessment, planning, and project implementation processes.

The outcomes of Phase II will continue to support the Roundtables BIP goals through the development of an IWMP that looks at environmental and recreational water supply needs, agricultural irrigation structural conditions, and begins to identify opportunities for projects that benefit multiple uses. Overall, all three phases of the Upper San Juan IWMP will increase Southwest Basin Roundtable's ability to conduct collaborative approaches towards improvements, create mutually beneficial opportunities that provide for current and future water needs, and develop a more comprehensive understanding of needs and gaps for environmental, recreation, and agricultural water uses in Southwestern Colorado.

The Upper San Juan Integrated Water Management Plan, Phase II's alignment with goals of the Roundtable BIP and Colorado Water Plan are identified in Tables 1.1 and 1.2 below.



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Water Activity Justification		
Table 1.1: Project Alignment with SW Basin Implementation Plan		
GOAL	MEASURABLE OUTCOME	PROJECT-RELATED MEASURABLE OUTCOME
A2: Support specific and unique new IPPs important 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.	Supports achievement of outcomes 2-5	Phase I of the Upper San Juan IWMP supported these outcomes by establishing a working watershed group that promotes dialogue and fosters cooperation while establishing a safe, productive space to resolve conflict. In Phase II, these local groups and expert consultants will advance BIP goals to protect valued areas and resources, maintain or improve water diversion/delivery infrastructure, gather relevant data, and conduct a watershed assessment to better prioritize work to achieve those goals. Additionally, by working closely with members of the San Juan Headwaters Forest Health Partnership (IPP#4), this proposal will provide information and support to develop plans that protect critical water supplies in forested areas.
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>).	Supports outcome 3	The steering committee and stakeholder groups of diverse water users established in Phase I continue to promote dialogue and foster cooperation among water interests. The identified values, concerns, and areas of interest from these groups have shaped priorities for the analysis and modeling in Phase II's watershed assessment. Inclusion and engagement with these groups will continue in Phase II to ensure the assessment is driven by community input along with scientific analysis.
A5: Maintain watershed health by protecting and/or restoring watersheds that could affect critical infrastructure and/or environmental and recreational values.	Supports achievement of outcomes 4 & 5	Phase II will take the next steps in assessing and ultimately maintaining watershed health by evaluating current conditions, analyzing available data, modeling different hydrological scenarios, and developing a plan to address priority water-related issues. Phase II's assessment seeks to identify project opportunities that benefit multiple water uses, including environmental and recreation.
D1: Maintain, protect and enhance recreational values and economic values to local and statewide economies derived from recreational water uses.	Supports achievement of outcome 3	The data review in Phase I, along with field surveys and technical analysis in Phase II, will offer insight into the recreational and economic values tied to water resources within the basin and where improvements may be implemented in the future.
E1: Encourage and support restoration, recovery, and sustainability of endangered, threatened, and imperiled aquatic and	Supports, or assists, in achievement of outcomes 1-5	Technical analysis in Phase II will help characterize hydrological regimes and ecological integrity of river segments in the San Juan Basin to identify locations in need of protection or restoration of riparian and aquatic habitats. This



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Water Activity Justification		
riparian dependent species and plant communities.		analysis will be informed by previous studies and data highlighting target species and habitats known in the project area.
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 conditions.	Supports, or assists, in achievement of outcomes 1-5.	Phase I engaged groups to gather local values and develop collaborative solutions for identified issues, and Phase II will provide scientific assessments of current and future conditions. This combination will empower Basin communities to better understand current hydrological and ecological conditions and offer options on how best to adapt to changing conditions under different scenarios (i.e. drought, wildfire).
F1: Monitor, protect and improve water quality for all classified users	Supports achievement of outcome 1 & 2	Phase II's analysis to characterize hydrological regimes and ecological integrity in the San Juan Basin may identify where channel and streambank morphology could be stabilized, assisting with water quality concerns like flow levels, temperature, and turbidity.

Table 1.2: Project Alignment with Colorado Water Plan	
GOAL	PROJECT-RELATED MEASURABLE OUTCOME
F1: Watershed Health, Environment & Recreation 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 IWMP in the San Juan River Basin. Further, this community-driven effort offers the opportunity for local prioritization of projects and values.
H1: Education, Outreach, and Innovation: Colorado's Water Plan sets a measurable objective to significantly improve the level of public awareness and engagement regarding water issues statewide by 2020...[and] to engage Coloradans statewide on at least five key water challenges (identified by CWCB) that should be addressed by 2030.	By engaging a diverse group of local stakeholders and hosting several community meetings in both Phases I and II, the proposed project improves the level of both public awareness and engagement regarding water issues. Including local groups in the process of identifying values and establishing provides support/buy-in and a route forward for an IWMP to address those values and fill critical data gaps in the basin.

(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 3rd 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)
Banded Peak Ranch	\$ 11,000 (cash, committed)
Mountain Studies Institute	\$ 1,957 (cash, committed)
San Juan Water Conservancy District	\$ 2,000 (cash, committed)
Trout Unlimited (Five Rivers Chapter & National)	\$ 2,000 (cash, committed)
CWCB Colorado Watershed Restoration Program (Stream Management Planning)	\$ 85,914 (cash, requested)
Southwestern Water Conservation District	\$ 20,000 (cash, requested)
Pagosa Tourism Board	\$ 2,500 (cash, requested)
Town of Pagosa Springs	\$ 2,500 (cash, requested)
The Nature Conservancy	\$ 1,000 (cash, requested)
In Kind	\$ 28,057 (in-kind)
Total Match	\$ 156,927

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 3rd party (cash, in-kind, or combination). The remaining 30% of the required match may be provided from any other source (Basin, applicant, or 3rd 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).	

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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.
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
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) Completion date: April 2018
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 2017: 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) Completion Date: September 2017
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) 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) Completion Date: 2020
WRP 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) Completion Date: 1/31/20
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) 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)



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Previous CWCB Grants

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) Completion Date:** 6/30/22

WRP 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:** Pending; **6) Completion Date:** April 2021

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.

N/A

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SOUTHWEST BASIN ROUNDTABLE'S EVALUATION QUESTIONNAIRE

To assist the Roundtable in determining whether and to what extent a proposed project and/or process meets the values set forth in the By-Laws and goals of the Basin Implementation Plan, the following questions should be addressed separately as can reasonably be answered by the applicant. *Note: this is not an exhaustive list and additional questions may be asked of the applicant.*

- 1. What benefit(s) does the project provide? Are there multiple purposes? *Note: this does not mean that a single purpose project would be rejected, but for major funding requests, addressing multiple use needs would be an advantage.***

The three part process of developing an Integrated Water Management Plan (IWMP) in the San Juan Basin serves multiple purposes by investigating water-related issues and exploring opportunities to benefit environmental, agricultural, recreation and municipal water uses. Phase I established an engaged stakeholder group of representatives from diverse water user groups, which is now called the Upper San Juan Watershed Enhancement Partnership or WEP. This group provides critical feedback and local input into the entire project process, ensuring consensus-building, conflict resolution, and community buy-in.

Additionally, the needs assessment provided in Phase II will enhance understanding of the hydrology of the project area; identify environmental and recreation water supply needs; inventory agricultural irrigation structural needs; model/map current and future areas of concern to prioritize, and develop a workplan for Phase III. Phase III will outline a management plan that addresses locations, steps, challenges, and opportunities to implement cooperative projects to benefit multiple water uses in the upper San Juan Basin.

- 2. Outline the steps needed for completion of the project. What permit issues must be overcome? How will funds acquired in this process be used to accomplish the final goal?**

The overall IWMP project consists of three phases. In Phase I, a steering committee (WEP) was established and stakeholders engaged to provide a locally-driven process in the development of a stream management plan. Phase II (this funding proposal) develops information to better understand E&R needs and structural needs to support agricultural irrigation. Information regarding municipal water supply and agricultural water supply needs have been developed in other studies and may inform Phase III of the project, which will consist in identifying opportunities for cooperative multiple purpose projects and development of an IWMP for the San Juan Basin.

The WEP operates through collaboration and regularly utilizes public feedback. Each step of the process will be overseen by WEP's steering committee, made up of representatives from multiple water user groups in the project area, and will continue to engage stakeholders when

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appropriate. The knowledge and expertise of the WEP and other stakeholders have already enabled the group to identify priorities needed for the technical analysis and modeling in Phase II's watershed assessment. This assessment will inform the the scope of work for Phase III and development of an IWMP.

- 3. For prioritization of different proposals and assessment of the merits of the plan, can this project be physically built with this funding? Are further studies needed before actual construction is commenced (if the project anticipates construction)? Will these studies or additional steps delay the completion of the project substantially?**

N/A. This is a three-phase project to develop an IWMP. It is expected that the IWMP will identify opportunities, including cooperative projects, to meet multiple water use needs in the upper San Juan River, but it does not in itself result in specific-on-the ground projects. This work will assist the SWBRT meet its goal to help address and bridge gaps of information and tools identified in the BIP, as stated in page 1 of the BIP. It is anticipated that the WEP will request funding for Phase III of the project.

- 4. Does the proposal envision and anticipate financial or in-kind support from its beneficiaries or from other sources in addition to the funding requested here? Would a loan reasonably address the needs of the applicant or, with a grant, should a recommendation be added to assess the future project status for ability to repay a portion of the grant?**

Matching funds are being provided for the current funding request. A loan is not a possibility for this community-driven effort.

- 5. What is the ability of the sponsor to pay for the project? What actions have been taken to secure local funding? Are there supporting factors which overcome the sponsor's inability to pay? Please provide a summary of the sponsor's financial health such as customer fee structure, mill levy rate, or other applicable information that demonstrates the sponsor's ability to pay for the project. (These could be related to basin water needs and compact considerations).**

The WEP is a volunteer group organized around the SWBRT's goal to better understand environmental and recreational water supply needs within the SWBRT's area and to identify opportunities to collaboratively meet those needs in conjunction with agricultural, municipal and industrial needs. Matching contributions are being provided by participants in the effort.

Local districts, including the San Juan Water Conservancy District and Southwestern Water Conservation District, have provided generous matching funds in support of this three-phased project for both Phase I and II. Additionally, a local, private ranch, Banded Peak Ranch, has committed substantial funding in Phase II. Lastly, agencies will be contacted for local government support, including the Town of Pagosa Springs and Pagosa Tourism Board. Representatives from these entities have stated they understand maintaining or improving water supplies for multiple uses in the basin benefits both the city's economy and the well-being of their constituents.

Last Update: July 31, 2018

- 6. What alternative sources of water or alternative management ideas have you considered? Are there water rights conflicts involving the source of water for the project? If yes, please explain.**

The WEP will be looking at various opportunities for collaboration in improving water uses within the San Juan River basin, with consideration for alternative options for each area. No water rights conflict is anticipated.

- 7. Has there been public input solicited and is there local support for the project? Have the beneficiaries solicited funding, letters or other documentation to demonstrate support?**

In Phase I, two public meetings were held in 2019 to introduce the WEP steering committee representatives; invite feedback on the community's water-related values, issues, information gaps, and geographic scope; provide updates on the stream management plan/IWMP process; offer educational sessions from guest speakers from CWCB; collaborate with other local groups Resilient Archuleta, Growing Water Smart Workgroup, San Juan Headwaters Forest Health Partnership; and invite questions and input into the entire process.

An additional public meeting is planned for early spring of 2020 to offer updates from the WEP and to receive input on the proposed Phase II's needs assessment. Two subsequent public meetings in 2020-2021 will be held in Phase II to continue to receive community input, present final results/findings, maps, and discuss potential next steps in Phase III.

- 8. Is there opposition to the project? If there is opposition, how have those concerns been addressed? Identify any conflicts that may exist and how they will be addressed.**

There is no known opposition to the project.

- 9. Does this project affect the protection and conservation of the natural environment, including the protection of open space? If yes, please explain.**

The information developed in Phase II will help identify opportunities for collaboration to benefit multiple water uses, including environmental and recreational uses.

- 10. Are there impacts of the proposed action on other non-decreed values of the stream or river? Non-decreed values may include things such as non-decreed water rights or uses, recreational uses and soil/land conservation practices.**

None that have been identified.

- 11. Does this project relate to local land use plans? If yes, please explain.**

The project does not relate to local land use plans but may provide information that is helpful to land use planning.

Last Update: July 31, 2018

12. Does the project depend on a conversion of an agricultural water right? If yes, please explain.

No.

13. Does the project support agricultural development or protect the existing agricultural economy? If yes, please explain.

Yes. Phase II will provide an inventory and analysis of agricultural infrastructure systems, allowing water users and project partners to evaluate where deficiencies exist and propose possible improvements for both large agricultural ditches and private diversions. Project improvements could include updating infrastructure, stabilizing streambanks near diversions, channels for different flow levels, etc. Each site will need unique considerations and project options, making the field surveys and modeling assessments in Phase II critical in developing project plans for agricultural water users and developing this crucial economy for the Basin.

14. Does the project optimize existing water rights and/or existing infrastructure? If yes, please explain.

Yes. See answer to #13.

15. Does the applicant anticipate future funding requests to complete the additional components of this project? Does the applicant have a long term operation, maintenance and replacement plan? When was the last update of the plan?

It is anticipated that the WEP will request funding for Phase III of the project.

16. Does this project have an education component? If yes, please explain how it is consistent with the Roundtable's Education Action Plan.

Yes. A challenge of the IWMP process is public engagement in abstract planning and complex topics and policies, such as the Colorado Water Plan. By offering multiple public meetings as well as several steering committee meetings, Phase II will continue to bring in local and state experts to discuss project updates, share congruent efforts (i.e. Resilient Archuleta, San Juan Headwaters Forest Health Partnership, etc.), and discuss what multiple use project opportunities have been identified for feedback. The technical analysis and assessment of Phase II will provide concrete examples and potential locations to more fully engage the community in the conversation.

SOURCES

Colorado Water Plan: Critical Action Plan

<http://cwcbweblink.state.co.us/WebLink/ElectronicFile.aspx?docid=199499&searchid=80d50cb3-95bf-405c-bfa5-587c633c7136&dbid=0>

SW Basin Implementation Plan, IPP Overview:

Last Update: July 31, 2018

<https://swwcd.org/wp-content/uploads/2016/01/SW-Basin-Implementation-Plan-IPP-Overview2.pdf>

SWWCD: Goals and Measurable Outcomes for the SW Basin Implementation Plan
<https://swwcd.org/wp-content/uploads/2016/01/Excerpt-of-SW-BIP-Goals-and-Measurable-Outcomes.pdf>



Last Update: January 9, 2018

Colorado Water Conservation Board	
Water Supply Reserve Fund	
<u>Exhibit A - Statement of Work</u>	
Date:	1/3/2020
Water Activity Name:	Upper San Juan Basin Integrated Water Management Planning, Phase II
Grant Recipient:	Mountain Studies Institute on behalf of Upper San Juan Watershed Enhancement Partnership
Funding Source:	Water Supply Reserve Fund
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.	
<p>The project area is situated in the San Juan Basin on a subset of rivers and streams in Archuleta and Mineral counties, focusing primarily on the Upper San Juan from the Continental Divide to the confluence with Mill Creek. Additionally, the agricultural water needs assessment will expand into the Navajo and Rio Blanco basins.</p> <p>The overall purpose of the project is to develop an understanding of the community's water-related values, agricultural irrigation structural needs, and environmental and recreational (E&R) water supply needs in the area, and to identify and evaluate opportunities for projects to benefit the diversity of water users present in the upper San Juan River basin.</p> <p>This process will evaluate current and future water needs using both community input and scientific analysis, with the ultimate goal of outlining an assessment that can prioritize projects and methods to meet those needs. Informed by coordinated efforts from Phase I (2018-2019), Phase II of the project will develop an assessment to analyze and model needs for environmental, recreational, and agricultural water uses as well identify projects that benefit multiple user groups. This assessment will inform the development of an integrated water management plan and potentially project implementation in Phase III.</p>	
Objectives: (List the objectives of the project)	
<p>The primary objective of Phase II of this project is to develop technical information necessary to identify environmental and recreation water supply needs, agricultural irrigation structural needs, and to begin identifying opportunities for cooperative projects to address the multiple water uses in the project area.</p> <p>The outcomes of Phase II will be:</p> <ol style="list-style-type: none">1. An understanding of the hydrology of the upper San Juan watershed project area and the interactions between stream flows, environmental and recreational attributes, and consumptive uses under existing and potential future conditions – including forest health and climate change;2. An inventory of agricultural structural needs, such as ditch/diversion improvements and other measures that have the potential to improve irrigation and irrigation efficiency;3. An understanding of E&R water supply needs and gaps;4. A well-coordinated process that informs and incorporates input from stakeholders and the community as a whole5. A work scope for Phase III management plan.	

Last Update: January 9, 2018

Tasks
Provide a detailed description of each task using the following format:
<u>Task 1 – Coordination and Stakeholder Engagement</u>
Description of Task:
<p>Mountain Studies Institute (MSI), in close coordination with Western Wildscapes and support of Trout Unlimited (TU), will act as the Project Management Team. The MSI-led Project Management Team (Team) will be primarily responsible for managing the work of the Consultants (Lotic and SJCD) and ensuring Steering Committee, stakeholder and community involvement in Phase II. As information is developed in Phase II, the Team will ensure Consultants communicate and coordinate with the steering committee, stakeholders, and public to develop a scope of work and funding proposal for moving forward with Phase III of the IWMP.</p>
Method/Procedure:
<p>The Team will follow the successful methods utilized in Phase I and build off of the relationships and steering committee we developed to inform all affected parties of the timing and content of actions being conducted in Phase II. The Team will work with the Consultants and steering committee to develop deliverables with language and visuals easy to understand by the general public, to disperse assessment results, discuss project opportunities, and outline planning priorities, challenges, and steps.</p> <p>The Team will work with the consultants, steering committee, and stakeholders to develop a plan that summarizes identified issues and needs, with a list of prioritized project options to organize and/or implement in Phase III.</p>
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
<ul style="list-style-type: none"> • The Team will lead 6 meetings with steering committee members, 6 meetings with consultants (with or without steering committee), and 2 public meetings with stakeholders. • A document detailing the scope of work for Phase III, guided by community-driven processes, to design an Upper San Juan Integrated Water Management Plan and project implementation.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
<p>MSI will provide CWCB with a progress report after the first six months, beginning from the date of the executed contract. The progress report shall describe the fully or partially complete tasks identified in the statement of work including a description of accomplishments, issues if any occurred, and any corrective actions taken. At completion of the project, MSI will provide CWCB a final report that summarizes the project and documents how the project was completed. This report will be informed by the entire project team and offer the following outcomes:</p> <ul style="list-style-type: none"> • An understanding of the hydrology of the upper San Juan watershed project area and the interactions between stream flows, environmental and recreational attributes, and consumptive uses under existing and potential future conditions – including forest health and climate change; • An inventory of agricultural structural needs, such as ditch/diversion improvements and other measures that have the potential to improve irrigation and irrigation efficiency; • An understanding of E&R water supply needs and gaps; • A well-coordinated process that informs and incorporates input from stakeholders and the community as a whole • A scope of work for Phase III to develop an integrated water management plan for Upper San Juan Basin.



Last Update: January 9, 2018

Tasks
Provide a detailed description of each task using the following format:
<u>Task 2 – Agricultural Water Needs Analysis</u>
Description of Task:
<p>San Juan Conservation District (SJCD) will be consultant responsible for conducting data collection, field surveys and analysis of agricultural irrigation infrastructure and water supply needs for the Upper San Juan, Navajo and Blanco rivers. This analysis will compliment and be incorporated into Lotic Hydrological's watershed assessment and modeling for the San Juan Basin.</p>
Method/Procedure:
<p>SJCD will compile and review existing information and data relevant to characterizing agricultural water needs within the project area, then work with agricultural water users, appropriate ditch representatives and water rights holders to inventory current conditions of irrigation systems and agricultural water use within project area.</p> <p>This inventory will evaluate irrigation infrastructures to determine deficiencies within each system, identify candidate and priority areas, and develop potential cost estimates. Appropriate data and information will be shared with Lotic to inform the assessment of watershed conditions and map priority areas for future improvement projects.</p>
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
<ul style="list-style-type: none">• Participation and/or presentations of agricultural inventory results for 2 public meetings• Report summarizing existing data and information and identified data gaps• Data tables, maps, and narratives suitable for use with stakeholder engagement/public meetings• Assessment report, user friendly maps and graphics that illustrate results, and quantitative data on water deficiency gaps• Report and maps summarizing agricultural water user preferences and priorities• Evaluation report and table that summarizes alternatives and their attributes
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
<p>This inventory will be included in the broader technical analysis and modeling report, developed by Lotic Hydrological, and submitted in a final report from Mountain Studies Institute to the CWCB.</p>



Last Update: January 9, 2018

Tasks
Provide a detailed description of each task using the following format:
<u>Task 3- Technical Analysis and Modeling</u>
Description of Task:
Lotic Hydrological (Lotic) will be the consultant responsible for the data and information review and collection; characterization and modeling of project site systems; and identification of river segments and management issues to address in subsequent phases, informed by stakeholder input. The San Juan Conservation District (SJCD) will be the entity responsible for conducting an inventory of agricultural infrastructure and needs assessment on the Upper San Juan, Navajo and Blanco rivers to be included in Lotic's modeling and project identification.
Method/Procedure:
Lotic will review existing data and information from multiple sources; characterize current and potential hydrological regimes; characterize ecological integrity within riparian areas; explore water/forest health nexus to evaluate wildfire risk to water resources; characterize recreational uses on the San Juan River; and incorporate SJCD's agricultural inventory data into models. These assessments and models will inform the final step, to identify and map high-priority management issues and locations. This broad watershed assessment allows stakeholders to understand current watershed conditions, possible future hydrological scenarios and risks to water resources, and project locations that may benefit multiple water user groups.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
<ul style="list-style-type: none">• Annotated bibliography summarizing the availability of data relevant to non-consumptive needs assessments. Annotated bibliography will also summarize findings of existing reports or studies that relate land and water use activities to conditions of ecological or recreational attributes along the rivers in the study area.• Refined hydrological and water rights simulation model results for the upper San Juan River watershed.• Data tables containing statistical characterizations of "natural", existing, and potential future shifts in hydrology due to climate change at major tributary junctions and surface water diversions throughout the study area.• Graphics characterizing typical hydrographs under wet, average, and dry conditions at major tributary junctions and surface water diversions throughout the study area.• Technical report discussing the water/forest health nexus.• Technical report summarizing ecological integrity assessment methodologies and results.• Map of known high-value aquatic biota attributes throughout the project area.• Map of known high-value riparian attributes throughout the project area.• Map of known high-value recreational attributes throughout the project area.• Technical report detailing conceptual models developed for stream reaches with at-risk environmental and/or recreational attributes.• Memorandum detailing high-priority planning issues identified by stakeholders• Map of high-priority stream reaches
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
Lotic 's graphics, narratives, maps, and technical analysis and modeling reports will be incorporated into Mountain Studies Institute's progress and final report to CWCB.

Last Update: January 9, 2018

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.

**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: January 1, 2020****Water Activity Name: Upper San Juan Basin Integrated Water Management Plan****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>
1	Coordination & Stakeholder Engagement	4/1/2020	4/30/2021	\$50,726	\$10,900	\$61,626
2	Agricultural Water Needs Analysis	4/1/2020	4/30/2021	\$39,588	\$9,853	\$49,440
3	Technical Analysis & Modeling	4/1/2020	4/30/2021	\$54,898	\$18,299	\$73,197
4	Grant Administration	4/1/2020	4/30/2021	\$11,715	\$3,905	\$15,621
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
Total				\$156,927	\$42,957	\$199,884

(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) Start Date for funding under \$100K - 45 Days from Board Approval; Start Date for funding over \$100K - 90 Days from Board Approval.

(3) 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.

- Reimbursement eligibility commences upon the grantee's receipt of a Notice to Proceed (NTP)

- NTP will not be accepted as a start date. Project activities may commence as soon as the grantee enters contract and receives formal signed State Agreement.

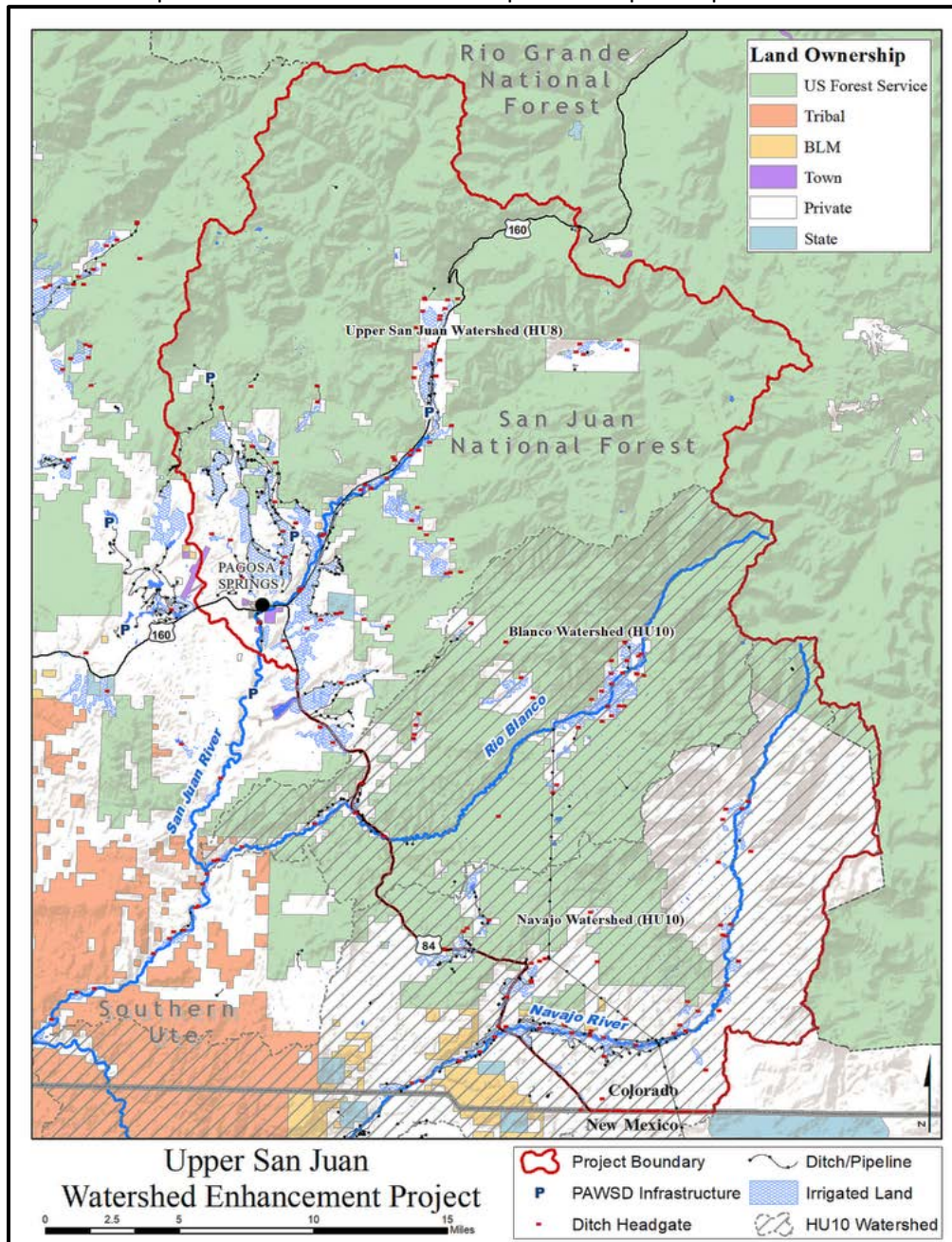
The CWCB will pay the last 10% of the entire water activity budget when the Final Report is completed to the satisfaction of the CWCB staff project manager. Once the Final Report has been accepted, the final payment has been issued, the water activity and purchase order (PO) or contract will be closed 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
- Standard contracting procedures dictate that the Expiration Date of the contract shall be 5 years from the Effective Date.

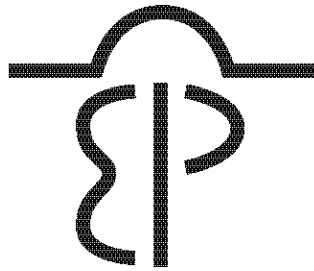
EXHIBIT D: PROJECT MAP

Figure 1: Proposed project area for Phase II Upper San Juan Integrated Water Management Plan

The map below illustrates the potential scope of the proposed IWMP project area (red boundary). The geographic scope for the IWMP has been developed through stakeholder and Steering Committee input during Phase I. GIS shapefiles and coordinates can be provided upon request.



Streams and waterways proposed for evaluation include the San Juan River mainstem including and above the Town of Pagosa Springs, East Fork of the San Juan River, West Fork of the San Juan River, Rio Blanco River, and Navajo River. Other tributaries may be included following consultation with local stakeholders. These tributaries may include Mill Creek, Four Mile Creek, and Martinez Creek. Primary focus will be on the Upper San Juan from the Continental Divide to the confluence with Mill Creek.



BANDED PEAK RANCH

-----EST. 1894-----

February 10, 2020

Craig Godbout
Water Supply Management Section
Colorado Water Conservation Board
1580 Logan Street, Suite 600
Denver, Colorado 80203

SOUTHWEST BASIN ROUNDTABLE
Michael Preston, Chair
c/o Dolores Water Conservancy District P.O. Box 1150
Cortez, Colorado 81321

Subject: Matching Funds for Upper San Juan Basin Integrated Water Management Plan, Phase II

Dear CWCB board members and Southwest Basin Roundtable,

The purpose of this letter is to confirm matching contributions and support from Banded Peak Ranch towards Mountain Studies Institute's (MSI) proposed project "Upper San Juan Basin Integrated Water Management Plan, Phase II".

Banded Peak Ranch has committed **\$11,000 in matching cash funds** to support the Phase II goals and objectives for this project.

Banded Peak Ranch is pleased to continue its support of this project into Phase II. Please contact me should you need further information.

Sincerely,

Dr. Tim Haarmann
Manager, Banded Peak Ranch



Archuleta County *Extension*

P.O. Box 370

Pagosa Springs, Colorado 81147

(970) 264-5931

Coopext_archuleta@mail.colostate.edu

February 7, 2020

Craig Godbout
Water Supply Management Section
Colorado Water Conservation Board
1580 Logan Street, Suite 600
Denver, Colorado 80203

SOUTHWEST BASIN ROUNDTABLE
Michael Preston, Chair
c/o Dolores Water Conservancy District P.O. Box 1150
Cortez, Colorado 81321

Subject: Matching Funds for Upper San Juan Basin Integrated Water Management Plan, Phase II

Dear CWCB board members and Southwest Basin Roundtable,

The purpose of this letter is to confirm matching contributions and support from Colorado State University's Extension Office towards Mountain Studies Institute's (MSI) proposed project "Upper San Juan Basin Integrated Water Management Plan, Phase II".

Colorado State University's Extension Office will commit **\$700 of in-kind matching funds** to support the Phase II goals and objectives for this project. In-kind match will be in the form of facility rental of the Extension Office building for 2 public meetings at \$350 per day, for a total of \$700.

Colorado State University's Extension Office is pleased to continue its support of this project into Phase II. Please contact me should you need further information.

Sincerely,

A handwritten signature in blue ink that reads "Robin Young".

Robin Young
CSU Extension Director Archuleta County
Robin.young@colostate.edu

From: [Sturm - DNR, Chris](#)
Subject: Colorado Watershed Restoration Program funding recommendation
Date: Tuesday, January 21, 2020 2:37:21 PM

Dear Applicant,

I am pleased to inform you that the CWCB review committee has evaluated your Colorado Watershed Restoration Program application, and it has been approved for full funding.

Please contact me after Jan 28 to set up a time to discuss any additional concerns, scope revisions, and contracting. CWCB grant funds cannot be used to reimburse expenses incurred before a contract or purchase order is in place. Please also note that:

- All funding awards are contingent upon the applicants' ability to secure match funding
- Grantees should adequately address CWCB staff comments to scopes of work and engineering designs (when applicable).
- All grantees should adhere to their organizational procurement policies when hiring contractors and consultants. CWCB recommends that State procurement policies be used as a guide if an organization does not have procurement policies.
- Projects should comply with the CWCB's Rules and Regulations for Regulatory Floodplains in Colorado when applicable.

Sincerely,

--

Chris Sturm
Watershed Program Director



O 303-866-3441 x3236 | F 303-866-4474
1313 Sherman St., Rm. 721, Denver, CO 80203
chris.sturm@state.co.us | cwcb.state.co.us



505A County Road 600 – Pagosa Springs, CO 81147
Phone (970)731-3615

February 7, 2020

Craig Godbout
Water Supply Management Section
Colorado Water Conservation Board
1580 Logan Street, Suite 600
Denver, Colorado 80203

SOUTHWEST BASIN ROUNDTABLE
Michael Preston, Chair
c/o Dolores Water Conservancy District P.O. Box 1150
Cortez, Colorado 81321

Subject: Matching Funds for Upper San Juan Basin Integrated Water Management Plan,
Phase II

Dear CWCB board members and Southwest Basin Roundtable,

The purpose of this letter is to confirm matching contributions and collaboration from San Juan Conservation District (SJCD) and Natural Resources Conservation Service (NRCS) towards Mountain Studies Institute's proposed project "Upper San Juan Basin Integrated Water Management Plan, Phase II".

SJCD will commit \$2,030 of in-kind match and NRCS will commit \$8,000 of in-kind matching funds toward the Phase II goals and objectives for this project. In-kind match will be in the form of staff time advising the project as follows:

- **SJCD staff time:** 57 hours at \$35 per hour = **\$2,030 in-kind match**
- **NRCS staff time:** 200 hours at \$40 per hour = **\$8,000 in-kind match**

San Juan Conservation District and Natural Resources Conservation Service are pleased to collaborate on this project's Phase II. Please contact me should you need further information.

Sincerely,

A handwritten signature in cursive script that reads "Cynthia Purcell".

Cynthia Purcell
District Manager
San Juan Conservation District
Cynthia.purcell@co.nacdnet.net



46 Eaton Drive, Suite 5
Pagosa Springs CO 81147
(970) 731-9857
www.sjwcd.org

February 17, 2020

Mr. Craig Godbout
Water Supply Management Section
Colorado Water Conservation Board
1580 Logan Street, Suite 600
Denver, Colorado 80203

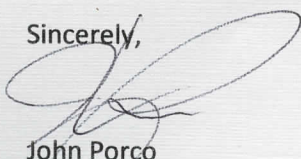
SOUTHWEST BASIN ROUNDTABLE
Michael Preston, Chair
c/o Dolores Water Conservancy District P.O. Box 1150
Cortez, Colorado 81321

Subject: Matching Funds for Upper San Juan Basin Integrated Water Management Plan, Phase II

Dear CWCB Board members and Southwest Basin Roundtable,

This letter will confirm matching contributions and support from San Juan Water Conservancy District (SJWCD) towards Mountain Studies Institute's (MSI) proposed project "Upper San Juan Basin Integrated Water Management Plan, Phase II". SJWCD has committed \$2,000 in matching cash funds from our 2020 budget to support the Phase II goals and objectives for this project. The SJWCD also provided matching cash funds for Phase I of this project and is pleased to continue its support into Phase II. Please contact me should you need further information.

Sincerely,



John Porco
Secretary
(970) 946-2684



THE SOUTHWESTERN WATER CONSERVATION DISTRICT

Developing and Conserving the Waters in the
SAN JUAN AND DOLORES RIVERS AND THEIR TRIBUTARIES
West Building – 841 East Second Avenue
DURANGO, COLORADO 81301
(970) 247-1302

February 18, 2020

Craig Godbout
Water Supply Management Section
Colorado Water Conservation Board
1580 Logan Street, Suite 600
Denver, Colorado 80203

Southwest Basins Roundtable
Michael Preston, Chair
c/o Dolores Water Conservancy District
P.O. Box 1150
Cortez, Colorado 81321

Subject: Matching Funds for Upper San Juan Basin Integrated Water Management Plan, Phase II

Dear CWCB board members and Southwest Basin Roundtable,

The purpose of this letter is to confirm matching contributions and support from Southwestern Water Conservation District ("District") towards Mountain Studies Institute's (MSI) proposed project "Upper San Juan Basin Integrated Water Management Plan, Phase II."

The District will commit **\$17,158 in matching cash funds** from our 2020 budget to support the Phase II goals and objectives for this project.

The District also provided \$13,945 matching cash funds for Phase I of this project and is pleased to continue its support into Phase II. Please contact me should you need further information.

Sincerely,

Laura Spann

Programs Coordinator
Southwestern Water Conservation District
841 E. Second Avenue
(970) 247-1302
www.swwcd.org



The Nature Conservancy in Colorado
1109 Oak Drive
Durango, CO 81301

tel (970) 375-0183

nature.org/colorado

February 18, 2020

Craig Godbout
Water Supply Management Section
Colorado Water Conservation Board
1580 Logan Street, Suite 600
Denver, Colorado 80203

SOUTHWEST BASIN ROUNDTABLE
Michael Preston, Chair
c/o Dolores Water Conservancy District P.O. Box 1150
Cortez, Colorado 81321

Subject: Matching Funds for Upper San Juan Basin Integrated Water Management Plan, Phase II

Dear CWCB and Southwest Basin Roundtable,

The purpose of this letter is to confirm matching contributions and support from The Nature Conservancy towards Mountain Studies Institute's (MSI) proposed project "Upper San Juan Basin Integrated Water Management Plan, Phase II."

The Nature Conservancy will **commit \$1,000 in matching cash funds** from our 2020 budget to support the Phase II goals and objectives of this project.

The Nature Conservancy also provided matching funds for Phase I of this project and is pleased to continue its support into Phase II. Please contact me should you need further information.

Sincerely,

A handwritten signature in cursive script that reads "Celene Hawkins".

Celene Hawkins
Western Colorado Water Project Director
The Nature Conservancy



February 12, 2020

Craig Godbout
Water Supply Management Section
Colorado Water Conservation Board
1580 Logan Street, Suite 600
Denver, Colorado 80203

SOUTHWEST BASIN ROUNDTABLE
Michael Preston, Chair
c/o Dolores Water Conservancy District P.O. Box 1150
Cortez, Colorado 81321

Subject: Matching Funds for Upper San Juan Basin Integrated Water Management Plan, Phase II

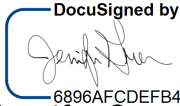
Dear CWCB board members and Southwest Basin Roundtable,

The purpose of this letter is to confirm matching contributions from the Pagosa Springs Area Tourism Board towards Mountain Studies Institute's (MSI) proposed project "Upper San Juan Basin Integrated Water Management Plan, Phase II".

The Tourism Board has approved and committed **\$2,500 of matching funds** to support the Phase II goals and objectives for this project.

The Pagosa Springs Area Tourism Board is pleased to support this project into Phase II, as we fully understand and endorse the benefits this project will provide to the community. Please contact me should you need further information at (970) 903-9728.

Sincerely,

DocuSigned by:

6896AFCDEFB44A5...
Jennifer Green, Executive Director
Pagosa Springs Area Tourism Board



February 10, 2020

Craig Godbout
Water Supply Management Section
Colorado Water Conservation Board
1580 Logan Street, Suite 600
Denver, Colorado 80203

SOUTHWEST BASIN ROUNDTABLE
Michael Preston, Chair
c/o Dolores Water Conservancy District P.O. Box 1150
Cortez, Colorado 81321

Subject: Matching Funds for Upper San Juan Basin Integrated Water Management Plan, Phase II

Dear CWCB board members and Southwest Basin Roundtable,

The purpose of this letter is to confirm matching contributions and support from Trout Unlimited towards Mountain Studies Institute's (MSI) proposed project "Upper San Juan Basin Integrated Water Management Plan, Phase II".

Trout Unlimited has committed **\$2,000 cash match and \$8,000 of in-kind matching funds** to support the Phase II goals and objectives for this project. In-kind match will be in the form of Trout Unlimited staff, providing advising services to the project for 160 hours at \$50 per hour.

Trout Unlimited is pleased to continue its support of this project into Phase II. Please contact me should you need further information.

Sincerely,

Amelia (Mely) Whiting
Trout Unlimited
mwhiting@tu.org
720-470-4758

February 7, 2020

Craig Godbout
Water Supply Management Section
Colorado Water Conservation Board
1580 Logan Street, Suite 600
Denver, Colorado 80203

SOUTHWEST BASIN ROUNDTABLE
Michael Preston, Chair
c/o Dolores Water Conservancy District P.O. Box 1150
Cortez, Colorado 81321

Subject: Matching Funds for Upper San Juan Basin Integrated Water Management Plan, Phase II

Dear CWCB board members and Southwest Basin Roundtable,

The purpose of this letter is to confirm matching contributions and support from the Watershed Enhancement Partnership's Steering Committee towards Mountain Studies Institute's (MSI) proposed project "Upper San Juan Basin Integrated Water Management Plan, Phase II".

The Watershed Enhancement Partnership will track and commit **\$8,506.80 of in-kind matching funds** to support the Phase II goals and objectives for this project. In-kind match will be tracked and accounted for in the following forms:

- Steering Committee Meetings: 2 hrs x Colorado professional volunteer rate of \$28.02 = \$56.04 x 15 members x 6 meetings = **\$5,043.60**
- Mileage for 6 Steering Committee Meetings: \$0.58/mile x 100 x 6 meetings = **\$348.00**
- Public Meetings: 2 hrs x Colorado volunteer rate of \$25.96 = \$51.92 x 30 people x 2 meetings = **\$3,115.20**

The Watershed Enhancement Partnership is pleased to continue its support of this project into Phase II. Please contact me should you need further information.

Sincerely,



Upper San Juan Watershed Enhancement Partnership, Project Manager
Mountain Studies Institute, Program Director of Forest Health
akimple@mountainstudies.org
679 E. 2nd Avenue, Suite 8, Durango CO 81301
O- 970-387-5161 | C- 970-749-7916