

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
January 25-26, 2015
Agenda Item 24(b)

Applicant & Fiscal Agent: Colorado Mesa University – Ruth Powell Hutchins Water Center

Water Activity Name: Integrated Water Management Planning Framework

Water Activity Purpose: Multipurpose

County: throughout Colorado Basin

Drainage Basin: Colorado

Water Source: Colorado River and tributaries

Amount Requested/Source of Funds: \$43,404 Colorado Basin Account (total grant request)

Matching Funds: Applicant Match: \$107,198 (cash & in kind) = 71.1% of the total project cost of \$150,602
(refer to *Funding Summary/Matching Funds* section below)

Staff Recommendation:

Staff recommends approval of up to \$43,404 from the Colorado Basin Account to help fund the project titled: Integrated Water Management Planning Framework.
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Water Activity Summary: WSRA funds, if approved, will be expended to fund the Colorado Basin Roundtable Integrated Water Management Planning Framework. This project will provide the informational and procedural framework for conducting comprehensive integrated water management plans in the Colorado River Basin. The purpose of these plans will be to identify ways to provide sufficient water for environmental needs while recognizing the needs of agricultural, domestic, and industrial water users.

This project will include the following tasks:

1. **Information Gathering:** An extensive review and compilation of existing information relevant to the development of integrated water management plans. The resulting compilation will be available in table form and linked to a map of the basin to show spatially which stream reaches have been studied in what ways.
2. **Information Synthesis:** A detailed GIS map will utilize the information collected in task #1 to depict what available data shows about stream health in each stream segment in the basin.
3. **Stakeholder Engagement and Education:** Consultation with stakeholders in order to refine the goals and objectives of the basin-wide planning effort; achieve consensus on the recommended tools and processes for developing integrated water management plans; and establish priorities for implementation. Once priorities are established, outreach will be conducted in the priority sub-basins to solicit interest in developing detailed plans.

4. Develop Framework for Stream Management Planning: Drawing on the work done in tasks two and three, develop and describe a framework for the creation of integrated water management plans at the sub-basin level that facilitates the integration of discrete plans into a comprehensive tool that can be applied basin-wide.

Discussion: The Colorado Basin Roundtable identified a basin-wide stream management plan as a top priority in the final Basin Implementation Plan (BIP). The roundtable has applied for and been approved for a grant in the amount of \$67,947 from the CWCB Stream Management Plan Program to assist in this project.

“Stream management plans can play an important role in identifying both the needs of environmental attributes, and the projects and methods that will benefit those attributes.” – Colorado’s Water Plan, Section 6.6, page 6-168.

Additionally, the development of stream management plans is identified as a critical action for Watershed Health, Environment and Recreation: #3 in chapter 10 of Colorado’s Water Plan, page 10-12.

Issues/Additional Needs: No issues or additional needs have been identified.

Threshold and Evaluation Criteria: The application meets all four Threshold Criteria.

Tier 1-3 Evaluation Criteria: n/a

Funding Summary/Matching Funds:

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
CWCB Stream Management Plan funds	\$67,947	n/a	\$67,947
In-kind resources of time, project partners	n/a	\$29,256 ⁽¹⁾	\$29,256
Cash funds – Colorado Mesa University	\$9,995	n/a	\$9,995
Subtotal Matching Funds	\$77,942	\$29,256	\$107,198
WSRA Colorado Basin Account	\$43,404	n/a	\$43,404
Total	\$121,346	\$29,256	\$150,602

⁽¹⁾ In-kind costs broken down in Exhibit A

CWCB Project Manager: Brent Newman/Chris Sturm

All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and will help promote the development of a common technical platform. In accordance with the revised WSRA Criteria and Guidelines, staff would like to highlight additional reporting and final deliverable requirements. The specific requirements are provided below.

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the scope of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

Engineering: All engineering work (as defined in the Engineers Practice Act (§12-25-102(10) C.R.S.)) performed under this grant shall be performed by or under the responsible charge of professional engineer licensed by the State of Colorado to practice Engineering.

THE COLORADO BASIN ROUNDTABLE
C/O P.O. BOX 1120
GLENWOOD SPRINGS, COLORADO
81602

Nov. 30, 2015

Chris Sturm
Stream Restoration Coordinator
Watershed and Flood Protection Section
Colorado Water Conservation Board
1313 Sherman St., Room 721
Denver, CO 80203

Craig Godbout
Water Supply Planning Section
Colorado Water Conservation Board

Dear Chris and Craig:

The Colorado Basin Roundtable (CBRT) voted unanimously on Nov. 30 by email balloting to support our own WSRA Basin grant request whereby the Roundtable and Colorado Mesa University's Ruth Powell Hutchins Water Center (fiscal agent) endeavor to embark on Integrated Water Management Planning. The WSRA request is for \$43,404 as a cash match to a separate grant request of \$67,947 to the Colorado Watershed Restoration Program, Stream Management Plan Category. There will be \$9,995 in additional cash match from Colorado Mesa University and \$29,256 of in kind match funding.

Our Basin Implementation Plan places a high priority on covering the Colorado River with stream management planning (although we now call it Integrated Water Management Planning to better reflect the nexus with agriculture, the environment and recreation). This initial effort starts us on the road to implementing one of our six BIP themes/findings.

This funding will include the tasks of information gathering of existing, relevant work, GIS mapping to show where there are already studied segments and gaps, stakeholder engagement/education and development of a planning framework for creation of management plans at sub-basin levels.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Jim Pokrandt", with a stylized flourish extending from the end.

Jim Pokrandt
Chair, Colorado Basin Roundtable

**MEMBER
JURISDICTIONS**

City of Glenwood
Springs

City of Steamboat
Springs

Town of
Carbondale

EAGLE COUNTY

Avon
Basalt
Eagle
Gypsum
Minturn
Red Cliff
Vail

GRAND COUNTY

Fraser
Granby
Grand Lake
Hot Sulphur
Springs
Kremmling
Winter Park

**JACKSON
COUNTY**

Walden

PITKIN COUNTY

Aspen

SUMMIT COUNTY

Dillon
Frisco
Montezuma
Silverthorne

October 14, 2015

Colorado River Basin Roundtable
c/o Jim Pokrandt
Colorado River District
Glenwood Springs, CO

RE: Colorado Basin Roundtable Integrated Water Management Planning
Framework

Dear Roundtable

The Northwest Colorado Council of Governments Watershed Services Program fully supports the Colorado Watershed Restoration Program Grant Application to develop the informational and procedural framework for conducting comprehensive integrated water management plans in the Colorado River Basin. This information will be invaluable in the effort to complete a basin wide stream management plan as outlined in the Colorado Basin Implementation Plan. Colorado Mesa University is an excellent entity to carry out this project. You can count on our in-kind assistance on this endeavor.

Please let me know if you have any questions regarding this letter of support.

Sincerely,



Lane Wyatt P.E.

Watershed Services program Manager



Richard Van Gytenbeek, Colorado River Basin Outreach Coordinator, Colorado Water Project

October 14, 2015

Mr. Chris Sturm
Stream Restoration Coordinator
Colorado Water Conservation Board
1313 Sherman Street, Rm. 718
Denver, CO 80203

RE: Colorado Basin Roundtable Integrated Water Management Planning Framework Grant Application.

Dear Chris

As a member of the Colorado Basin Roundtable Stream Management Plan (CBRT-SMP) grant application committee and a representative of Trout Unlimited I would like to express support for the CBRT Integrated Water Management Planning Framework grant application being submitted to the Colorado Watershed Restoration Grant Program in the Stream Mgt. Plan category. Using the recent Grand County, Colorado river management plans as an example, the CBRT-SMP committee recognized the need to provide a common starting point for future sub-basin SMP's within the Colorado River basin.

To provide this common starting point the grant seeks to:

- 1) Provide a comprehensive basin wide reference list of studies, scientific papers and other information relevant to the environmental parameters that generally define a healthy aquatic and riparian environment. The list will be spatially displayed on a basin wide map.
- 2) Develop and describe a framework for the SMP process which is informed through stakeholder input.

The reference list is intended to provide an inventory "head-start" necessary for sub-basin SMP's. The SMP framework process will describe the fundamental goals and parameters, participants and process that sub-basins can employ to create an integrated water management plan that recognizes environmental needs and respects the rights of consumptive water users. Finally, by providing a common foundation, each sub-basin's unique and discrete water plan can be integrated into a comprehensive basin wide management plan.

TU believes this type of integrated, community driven water management plans will result in healthier rivers and increased agricultural efficiency and production in western Colorado. We hope that you will positively consider, and choose to fund this application.

Respectfully,

Richard Van Gytenbeek



MIDDLE COLORADO WATERSHED COUNCIL

P.O. Box 1136
Glenwood Springs, CO 81602
Phone: 303-204-4164

October 14, 2015

Colorado Water Conservation Board
1313 Sherman St., #178
Denver, CO 80203

Colorado Water Conservation Board Members:

The Middle Colorado Watershed Council (MCWC) is writing today in support of this application for a Colorado Watershed Restoration Program grant for stream management planning work in the Colorado River Basin. If selected, this grant request will be used to gather and synthesize existing technical information, and to support a facilitated stakeholder process that will determine how stream management plans are developed at the sub-basin level, integrated, and applied to assist with decision-making at a variety of scales.

Integrated stream management planning was identified by the Colorado Basin Roundtable as one of its top priority projects that spans the entire basin. Similarly, the MCWC Board has identified stream management planning as a project that will be highlighted in its Watershed Plan (scheduled for release in early 2016). Understanding the individual and cumulative environmentally-based flow needs of the Colorado River is key to our organization's mission to protect and enhance the health of the watershed. The foundational work described in this proposal will set the stage for organizations like the MCWC to undertake stream management planning at the sub-basin level, engaging local and regional stakeholders to participate and help shape the outcomes.

The MCWC pledges its support for this effort through providing in-kind staff time to help direct and provide input as the various tasks are executed. Thank you for your consideration of this proposal.

Sincerely,

Donna Gray
President and Chair



October 14, 2015

Mr. Chris Sturm
Colorado Water Conservation Board
1313 Sherman St., Room 718
Denver, CO 80203

RE: Colorado Basin Roundtable/Hutchins Water Center at CMU Stream Management Planning Grant application

Dear Chris,

American Rivers, one of the nations largest river conservation organizations, strongly supports this Stream Management Planning application through the Colorado Watershed Restoration Program. As you know Stream Management Planning, or Integrated Water Management Planning is a key basin wide recommendation from the Colorado Basin Roundtable's Basin Implementation Plan. It is also a key recommendation from the Colorado Water Plan.

Such water management planning can be a highly sensitive issue for a number of people. Yet such planning will be essential if we are to achieve the goals for meeting the needs of all the values identified in the Governor's Executive Order for creation of the Water Plan. To make such planning successful we agree with the Colorado Basin Roundtables approach for starting by finding out what we know and what the knowledge gaps are, engaging all stakeholders and communities and developing a framework from which such integrated water plans can be developed. We will need buy in from all stakeholders and communities and this approach will help continue a neutral conversation while laying a foundation of trust and unbiased science based information.

We hope that you and the CWCB will be able to support this grant request. Please do not hesitate to call me if you have any questions or concerns.

Thank you for your consideration and support

Ken Neubecker, Associate Director
American Rivers Colorado River Basin Program
Colorado Basin Roundtable Environmental Representative
24 S. Meadow View Ct.
Glenwood Springs, CO 81601
(970) 230-9300 home/office
(970) 376-1918 cell



COLORADO WATER CONSERVATION BOARD



WATER SUPPLY RESERVE ACCOUNT APPLICATION FORM

Today's Date: 12/01/2015

Colorado Basin Roundtable Integrated Water Management Planning Framework

Name of Water Activity/Project

Colorado Mesa University - Ruth Powell Hutchins Water Center

Name of Applicant

Colorado Basin Roundtable

Amount from Statewide Account:

0

Amount from Basin Account(s):

\$43,404

Total WSRA Funds Requested:

\$43,404

Approving Basin Roundtable(s)

(If multiple basins specify amounts in parentheses.)

FEIN: 84-6001656

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Required Exhibits

- A. Statement of Work, Budget, and Schedule
- B. Project Map
- C. As Needed (i.e. letters of support, photos, maps, etc.)

Appendices – Reference Material

- 1. Program Information
- 2. Insurance Requirements
- 3. WSRA Standard Contract Information (Required for Projects Over \$100,000)
- 4. W-9 Form (Required for All Projects Prior to Contracting)

Water Supply Reserve Account – Application Form

Revised October 2013

Instructions

To receive funding from the Water Supply Reserve Account (WSRA), a proposed water activity must be approved by the local Basin Roundtable **AND** the Colorado Water Conservation Board (CWCB). The process for Basin Roundtable consideration and approval is outlined in materials in Appendix 1.

Once approved by the local Basin Roundtable, the applicant should submit this application **with a detailed statement of work including budget and schedule as Exhibit A** to CWCB staff by the application deadline.

WSRA applications are due with the roundtable letter of support 60 calendar days prior to the bi-monthly Board meeting at which it will be considered. Board meetings are held in January, March, May, July, September, and November. Meeting details, including scheduled dates, agendas, etc. are posted on the CWCB website at: <http://cwcb.state.co.us> Applications to the WSRA Basin Account are considered at every board meeting, while applications to the WSRA Statewide Account are only considered at the March and September board meetings.

When completing this application, the applicant should refer to the WSRA Criteria and Guidelines available at: <http://cwcb.state.co.us/LoansGrants/water-supply-reserve-account-grants/Documents/WSRACriteriaGuidelines.pdf>. In addition, the applicant should also refer to the [Supplemental Scoring Matrix](#) applied to Evaluation Criteria Tiers 1-3 for Statewide Account requests .

The application, statement of work, budget, and schedule **must be submitted in electronic format** (Microsoft Word or text-enabled PDF are preferred) and can be emailed or mailed on a disk to:

Craig Godbout - WSRA Application
Colorado Water Conservation Board
1313 Sherman St., Room 721
Denver, CO 80203
Craig.godbout@state.co.us

If you have questions or need additional assistance, please contact Craig Godbout at: 303-866-3441 x3210 or craig.godbout@state.co.us.

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Part I. - Description of the Applicant (Project Sponsor or Owner);

1.	Applicant Name(s):	Colorado Mesa University – Ruth Powell Hutchins Water Center		
	Mailing address:	1100 North Avenue Grand Junction, CO 81501		
	FEIN #:	84-6001656		
	Primary Contact:	Hannah Holm	Position/Title:	Coordinator
	Email:	hholm@coloradomesa.edu		
	Phone Numbers:	Cell: 970-683-1133	Office:	970-248-1968
	Alternate Contact:	Gigi Richard	Position/Title:	Director
	Email:	grichard@coloradomesa.edu		
	Phone Numbers:	Cell: 970-260-5528	Office:	970-248-1689

2. Eligible entities for WSRA funds include the following. What type of entity is the Applicant?

- ☒ Public (Government) – municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities and the local entity should be the grant recipient. 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.
- ☐ Non-governmental organizations – broadly defined as any organization that is not part of the government.

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3. Provide a brief description of your organization

Founded in 1925, Colorado Mesa University (CMU) is a comprehensive regional public higher education institution offering liberal arts, professional, and technical programs at the master's, bachelor's, associate and certificate levels. The Ruth Powell Hutchins Water Center was established at CMU in 2011 to perform and facilitate interdisciplinary and collaborative research, education, outreach, and dialogue to address the water issues facing the Upper Colorado River Basin.

4. If the Contracting Entity is different then the Applicant (Project Sponsor or Owner) please describe the Contracting Entity here.

5. Successful applicants will have to execute a contract with the CWCB prior to beginning work on the portion of the project funded by the WSRA grant. In order to expedite the contracting process the CWCB has established a standard contract with provisions the applicant must adhere to. A link to this standard contract is included in Appendix 3. Please review this contract and check the appropriate box.

☒ The Applicant will be able to contract with the CWCB using the Standard Contract

☐ The Applicant has reviewed the standard contract and has some questions/issues/concerns. Please be aware that any deviation from the standard contract could result in a significant delay between grant approval and the funds being available.

6. 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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Part II. - Description of the Water Activity/Project

1. What is the primary purpose of this grant application? (Please check only one)

☒ Nonconsumptive (Environmental or Recreational)

☐ Agricultural

☐ Municipal/Industrial

☐ Needs Assessment

☐ Education

☐ Other Explain:

2. If you feel this project addresses multiple purposes please explain.

3. Is this project primarily a study or implementation of a water activity/project? (Please check only one)

☒ Study ☐ Implementation

4. To catalog measurable results achieved with WSRA funds can you provide any of the following numbers?

New Storage Created (acre-feet)

New Annual Water Supplies Developed, Consumptive or Nonconsumptive (acre-feet)

Existing Storage Preserved or Enhanced (acre-feet)

Length of Stream Restored or Protected (linear feet)

Length of Pipe/Canal Built or Improved (linear feet)

Efficiency Savings (acre-feet/year OR dollars/year – **circle one**)

Area of Restored or Preserved Habitat (acres)

Other -- Explain:

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-
4. To help us map WSRA projects please include a map (Exhibit B) and provide the general coordinates below:

Latitude:

39 N – 40 N
(roughly)

Longitude:

106 W – 109 W
(roughly)

5. Please provide an overview/summary of the proposed water activity (no more than one page). Include a description of the overall water activity and specifically what the WSRA funding will be used for. A full **Statement of Work** with a detailed budget and schedule is required as **Exhibit A** of this application.

Project Description

This project will provide the informational and procedural framework for conducting comprehensive integrated water management plans in the Colorado River Basin. The purpose of these plans will be to identify ways to provide sufficient water for environmental needs while recognizing the needs of agricultural, domestic and industrial water users.

This project will include the following tasks:

1. **Information Gathering:** An extensive review and compilation of existing information relevant to the development of integrated water management plans. The resulting compilation will be available in table form and linked to a map of the basin to show spatially which stream reaches have been studied in what ways.
2. **Information Synthesis:** A detailed GIS map will utilize the information collected in task #1 to depict what available data shows about stream health in each stream segment in the basin.
3. **Stakeholder Engagement and Education:** Consultation with stakeholders in order to refine the goals and objectives of the basin-wide planning effort; achieve consensus on the recommended tools and processes for developing integrated water management plans; and establish priorities for implementation. Once priorities are established, outreach will be conducted in the priority sub-basins to solicit interest in developing detailed plans.
4. **Develop Framework for Stream Management Planning:** Drawing on the work done in tasks two and three, develop and describe a framework for the creation of integrated water management plans at the sub-basin level that facilitates the integration of discrete plans into a comprehensive tool that can be applied basin-wide.

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Part III. – Threshold and Evaluation Criteria

1. Describe how the water activity meets these **Threshold Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines.)
 - a) The water activity is consistent with Section 37-75-102 Colorado Revised Statutes.¹

This project falls under the following eligible category: *Studies or analysis of structural, nonstructural, consumptive, and nonconsumptive water needs, projects, or activities.*

- b) The water activity underwent an evaluation and approval process and was approved by the Basin Roundtable (BRT) and the application includes a description of the results of the BRT's evaluation and approval of the activity. At a minimum, the description must include the level of agreement reached by the roundtable, including any minority opinion(s) if there was not general agreement for the activity. The description must also include reasons why general agreement was not reached (if it was not), including who opposed the activity and why they opposed it. Note- If this information is included in the letter from the roundtable chair simply reference that letter.

See attached letter of support from the Colorado Basin Roundtable, noting unanimous endorsement.

- c) The water activity meets the provisions of Section 37-75-104(2), Colorado Revised Statutes.² The Basin

¹ 37-75-102. Water rights - protections. (1) It is the policy of the General Assembly that the current system of allocating water within Colorado shall not be superseded, abrogated, or otherwise impaired by this article. Nothing in this article shall be interpreted to repeal or in any manner amend the existing water rights adjudication system. The General Assembly affirms the state constitution's recognition of water rights as a private usufructuary property right, and this article is not intended to restrict the ability of the holder of a water right to use or to dispose of that water right in any manner permitted under Colorado law. (2) The General Assembly affirms the protections for contractual and property rights recognized by the contract and takings protections under the state constitution and related statutes. This article shall not be implemented in any way that would diminish, impair, or cause injury to any property or contractual right created by intergovernmental agreements, contracts, stipulations among parties to water cases, terms and conditions in water decrees, or any other similar document related to the allocation or use of water. This article shall not be construed to supersede, abrogate, or cause injury to vested water rights or decreed conditional water rights. The General Assembly affirms that this article does not impair, limit, or otherwise affect the rights of persons or entities to enter into agreements, contracts, or memoranda of understanding with other persons or entities relating to the appropriation, movement, or use of water under other provisions of law.

² 37-75-104 (2)(c). Using data and information from the Statewide Water Supply Initiative and other appropriate sources and in cooperation with the on-going Statewide Water Supply Initiative, develop a basin-wide consumptive and nonconsumptive water supply needs assessment, conduct an analysis of available unappropriated waters within the basin, and propose projects or methods, both structural and nonstructural, for meeting those needs and utilizing those unappropriated waters where appropriate. Basin Roundtables shall actively seek the input and advice of affected local governments, water providers, and other interested stakeholders and persons in establishing its needs assessment, and shall propose projects or methods for meeting those needs. Recommendations from this assessment shall be forwarded to the Interbasin Compact Committee and

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Roundtable Chairs shall include in their approval letters for particular WSRA grant applications a description of how the water activity will assist in meeting the water supply needs identified in the basin roundtable's consumptive and/or non-consumptive needs assessments.

This project will not affect the current system for allocating water in Colorado, nor will it impact any water rights.

- d) Matching Requirement: For requests from the **Statewide Fund**, the applicants will be required to demonstrate a **25 percent** (or greater) match of the total grant request from the other sources, including by not limited to Basin Funds. A minimum match of 5% of the total grant amount shall be from Basin funds. A minimum match of 5% of the total grant amount must come from the applicant or 3rd party sources. Sources of matching funds include but are not limited to Basin Funds, in-kind services, funding from other sources, and/or direct cash match. Past expenditures directly related to the project may be considered as matching funds if the expenditures occurred within 9 months of the date the contract or purchase order between the applicant and the State of Colorado is executed. Please describe the source(s) of matching funds. (NOTE: These matching funds should also be reflected in your Detailed Budget in **Exhibit A** of this application)

This project is not seeking statewide funds. We propose to fund the project costs as follows:

\$ 43,404 - WSRA Basin Funds (this application)

\$ 67,947 – CWCBS Stream Management Plan grant funds (app pending)

\$ 29,256 – In-kind resources of time committed by project partners

\$ 9,995 – Cash funds held by Colorado Mesa University

\$150,602

other basin roundtables for analysis and consideration after the General Assembly has approved the Interbasin Compact Charter.

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2. For Applications that include a request for funds from the **Statewide Account**, describe how the water activity/project meets all applicable **Evaluation Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines and repeated below.) Projects will be assessed on how well they meet the Evaluation Criteria. **Please attach additional pages as necessary.**

Evaluation Criteria – the following criteria will be utilized to further evaluate the merits of the water activity proposed for funding from the Statewide Account. In evaluation of proposed water activities, preference will be given to projects that meet one or more criteria from each of the three “tiers” or categories. Each “tier” is grouped in level of importance. For instance, projects that meet Tier 1 criteria will outweigh projects that only meet Tier 3 criteria. The applicant should also refer to the Supplemental Scoring Matrix applied to Evaluation Criteria Tiers 1-3 for Statewide Account requests. WSRA grant requests for projects that may qualify for loans through the CWCB loan program will receive preference in the Statewide Evaluation Criteria if the grant request is part of a CWCB loan/WSRA grant package. For these CWCB loan/WSRA grant packages, the applicant must have a CWCB loan/WSRA grant ratio of 1:1 or higher. Preference will be given to those with a higher loan/grant ratio.

Tier 1: Promoting Collaboration/Cooperation and Meeting Water Management Goals and Identified Water Needs

- a. The water activity addresses multiple needs or issues, including consumptive and/or non-consumptive needs, or the needs and issues of multiple interests or multiple basins. This can be demonstrated by obtaining letters of support from other basin roundtables (in addition to an approval letter from the sponsoring basin).
- b. The number and types of entities represented in the application and the degree to which the activity will promote cooperation and collaboration among traditional consumptive water interests and/or non-consumptive interests, and if applicable, the degree to which the water activity is effective in addressing intrabasin or interbasin needs or issues.
- c. The water activity helps implement projects and processes identified as helping meet Colorado’s future water needs, and/or addresses the gap areas between available water supply and future need as identified in SWSI or a roundtable’s basin-wide water needs assessment.

Tier 2: Facilitating Water Activity Implementation

- d. Funding from this Account will reduce the uncertainty that the water activity will be implemented. For this criterion the applicant should discuss how receiving funding from the Account will make a significant difference in the implementation of the water activity (i.e., how will receiving funding enable the water activity to move forward or the inability obtaining funding elsewhere).
- e. The amount of matching funds provided by the applicant via direct contributions, demonstrable in-kind contributions, and/or other sources demonstrates a significant & appropriate commitment to the project.

Tier 3: The Water Activity Addresses Other Issues of Statewide Value and Maximizes Benefits

- f. The water activity helps sustain agriculture & open space, or meets environmental or recreational needs.
- g. The water activity assists in the administration of compact-entitled waters or addresses problems related to compact entitled waters and compact compliance and the degree to which the activity promotes maximum utilization of state waters.
- h. The water activity assists in the recovery of threatened and endangered wildlife species or Colorado State species of concern.

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- i. The water activity provides a high level of benefit to Colorado in relationship to the amount of funds requested.
- j. The water activity is complimentary to or assists in the implementation of other CWCB programs.

Continued: Explanation of how the water activity/project meets all applicable **Evaluation Criteria**.

Please attach additional pages as necessary.

Although we are not applying for funds from the Statewide Account, we have still provided information on how this project meets the evaluation criteria.

This project meets all the tier 1 criteria because it:

- Will develop the informational and procedural framework for meeting nonconsumptive and consumptive needs together.
- Has been developed and will be overseen by the Colorado Basin Roundtable's Integrated Water Management Planning subcommittee, which includes representatives of both consumptive and nonconsumptive interests.
- Will facilitate implementation of integrated water supply management plans to meet nonconsumptive and consumptive needs through out the basin.

This project meets both tier 2 criteria because:

- Approval of this application will provide matching funds for thos applied for under the CWCB's Colorado Watershed Restoration Program, Stream Management Plan Category.
- The commitment to provide matching cash and in-kind support by the project partners indicates broad and significant stakeholder commitment to the project.

This project meets tier 3 criteria because:

- It will provide a framework for planning to meet both environmental flow needs and traditional consumptive water needs.
- It will provide great benefits for the amount of funds requested.
- It is complimentary to the CWCB Stream Management Plan program.

Part IV. – Required Supporting Material

1. **Water Rights, Availability, and Sustainability** – This information is needed to assess the viability of the water project or activity. Please provide a description of the water supply source to be utilized, or the water body to be affected by, the water activity. This should include a description of applicable water rights, and water rights issues, and the name/location of water bodies affected by the water activity.

No water rights or water right issues will be affected by this project.

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2. Please provide a brief narrative of any related studies or permitting issues.

One of the primary purposes of the project is to gather and synthesize studies that can illuminate integrated water management planning; there are no permitting issues related to this activity.

3. Statement of Work, Detailed Budget, and Project Schedule

The statement of work will form the basis for the contract between the Applicant and the State of Colorado. In short, the Applicant is agreeing to undertake the work for the compensation outlined in the statement of work and budget, and in return, the State of Colorado is receiving the deliverables/products specified. **Please note that costs incurred prior to execution of a contract or purchase order are not subject to reimbursement.** All WSRA funds are disbursed on a reimbursement basis after review invoices and appropriate backup material.

Please provide a detailed statement of work using the template in Exhibit A. Additional sections or modifications may be included as necessary. Please define all acronyms and include page numbers.

Our statement of work, detailed budget and project schedule are attached in Exhibit A.

REPORTING AND FINAL DELIVERABLE

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the statement of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

PAYMENT

Payment will be made based on actual expenditures and invoicing by the applicant. Invoices from any other entity (i.e. subcontractors) cannot be processed by the State. The request for payment must include a description of the work accomplished by major task, and estimate of the percent completion for individual tasks and the entire water activity in relation to the percentage of budget spent, identification of any major issues and proposed or implemented corrective actions. The last 10 percent of the entire water activity budget will be withheld until final project/water activity documentation is completed. All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information

Water Supply Reserve Account – Application Form

Revised October 2013

will in turn be made widely available to Basin Roundtables and the general public and help promote the development of a common technical platform.

The above statements are true to the best of my knowledge:

Signature of Applicant: 

Print Applicant's Name: Tim Foster, President, Colorado Mesa University

Project Title: Colorado Basin Roundtable Integrated Water Management Planning Framework

Return an electronic version (hardcopy may also be submitted) of this application to:

Craig Godbout – WSRA Application
Colorado Water Conservation Board
1313 Sherman St., Room 721
Denver, CO 80203
303-866-3441, ext. 3210 (office)
303-547-8061 (cell)
craig.godbout@state.co.us

Exhibit A
Statement of Work
Date: 12/01/2015

WATER ACTIVITY NAME

Colorado Basin Roundtable Integrated Water Management Planning Framework

GRANT RECIPIENT

Colorado Mesa University Ruth Powell Hutchins Water Center

FUNDING SOURCE

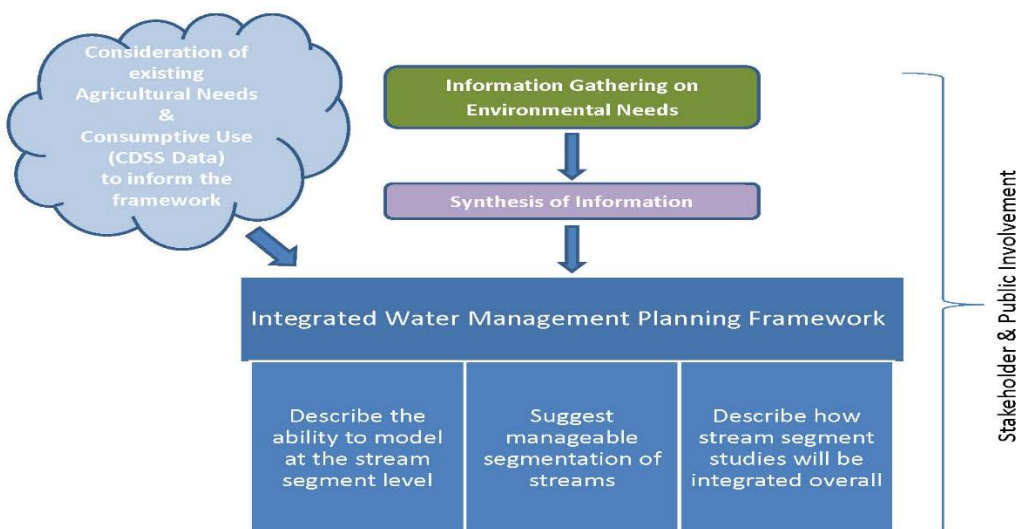
WSRA Basin Funds – Colorado Basin Roundtable

INTRODUCTION AND BACKGROUND

Provide a brief description of the project. (Please limit to **no more than 200 words**; this will be used to inform reviewers and the public about your proposal)

The Colorado Basin Roundtable (CBRT) has identified a basin-wide stream management plan (SMP) as a top priority in its Basin Implementation Plan. The CBRT feels that such planning is vital to providing sufficient water for environmental needs among the many competing uses and demands for water, and thereby restoring and protecting ecological processes that connect land and water while ensuring that streams also serve the needs of human populations.

The CBRT views SMPs as comprehensive in the sense that they need to consider both consumptive and non-consumptive uses, which is why we are calling this project an “integrated water management planning framework.” Tasks one and two focus on information gathering and synthesis related to environmental needs. This body of work and its integration into a planning framework will be considered during tasks three and four, which involve stakeholder engagement and developing a framework for the creation of integrated water management plans at the sub-basin level. This framework will facilitate the integration of discrete plans into a comprehensive tool that can be applied basin-wide. This graphic describes the overall process for this project:



OBJECTIVES

List the objectives of the project

The objective of this project is to develop an integrated water management planning framework for the watershed area within the purview of the Colorado Basin Roundtable (CBRT). The proposed work will lay the necessary groundwork for entities to develop detailed integrated water management plans (IWMPs) that address local and/or regional needs while also providing information and output that can be used for basin-level planning and management purposes. While this proposal initially focuses on quantifying non-consumptive needs, the CBRT foresees the use of IWMP tools that integrate both consumptive and non-consumptive uses to ensure that all existing and future uses are considered.

TASKS

Provide a detailed description of each task using the following format

TASK 1 – Information Gathering

Description of Task

Complete a targeted review and compilation of existing information relevant to the development of IWMP tools specific to the CBRT study area. This task will focus on the collection of literature, studies, reports and documented management actions and strategies that address or can inform, in whole or in part, one or more of the following questions:

- What flows are adequate to support the life stages of the fish native to the stream segments (i.e., magnitude, frequency and duration);
- What flows are necessary to provide adequate sediment flushing;
- What flows are necessary for channel, floodplain and riparian area maintenance;
- Is the stream healthy (i.e., what do indicators such as macroinvertebrate indices, fish population data, riparian condition assessments, etc. suggest); and
- What is known about the contribution of agricultural return flows as it relates to instream flows?

Method/Procedure

The Ruth Powell Hutchins Water Center (Water Center) at Colorado Mesa University (CMU) will conduct the inventory work. Recognizing that considerable work has been completed to date with regards to literature searches in the study area, the first step will include the assembling and querying of existing inventories from the following sources:

- CBRT Basin Implementation Plan;
- Watershed Flow Evaluation Tool Report;
- CBRT Non-consumptive Needs Assessment;
- Grand County Stream Management Plan; and
- Upper Colorado River Basin Resource Guide (CMU).

Following an initial querying of the existing inventories, the Water Center will complete its information gathering through reviewing the relevant scientific journals and communication with the various watershed groups in the study area; resource management, planning and regulatory agencies; academic institutions; and local governments.

Deliverable

The inventory will be compiled in a database format with identifying attributes that include information source, applicable sub-basin or stream reach(es), and data type. This database will be dynamically linked to the web-based interface “Upper Colorado River Basin Resource Guide”, which is currently under construction and resides at the Water Center. This guide includes maps to show spatially what stream reaches have been studied in what ways.

TASK 2 – Information Synthesis

Description of Task

Information collected in Task 1 will be synthesized for the purpose of identifying what is already known, what information gaps exist and where, and what resources and technical expertise will be needed to fill those information gaps. This task will go beyond task 1 by depicting what available data shows about stream health in each stream segment in the basin. This task will be undertaken in tandem with Tasks 3 and 4, recognizing the need to have a basic framework described in order to determine: 1) where existing information is adequate and appropriate and 2) what types of additional information are needed and at what level of detail.

Method/Procedure

From the inventory compilation, a contractor will extract, interpret and categorize information relevant to the five questions posed in Task 1. Results will be displayed and examined spatially to develop a better understanding, at a high scale of resolution, of what is known, how the information interrelates, where key information is lacking, and to determine optimization strategies for additional data collection.

Deliverable

A spatial geodatabase will be developed in GIS format to display results of the analysis.

TASK 3 – Stakeholder Education and Engagement

Description of Task

A stakeholder process will be conducted through the CBRT for the purposes of:

- Refining the objectives and goals of the basin-wide IWMP process;
- Achieving consensus on the recommended tools, how they will be applied, and how results could be used utilized; and
- Establishing priorities for implementation.

As described in Task 2, outcomes from stakeholder discussions will be used to inform work completed in Tasks 2 and 4. Once priorities are established, the CBRT will conduct outreach within the priority sub-basins to solicit interest for developing detailed IWMPs.

Method/Procedure

The CBRT IWMP subcommittee will carry out the planning while the Water Center will provide the facilitation for conducting the stakeholder process. A total of four stakeholder meetings are anticipated. Additional community outreach will be conducted by CMU and the subcommittee as needed.

Deliverable

Four stakeholder meetings and an estimated twelve community-based meetings.

TASK 4 – Develop Framework for Stream Management Planning

Description of Task

The goal of this task is to develop and describe a framework for the creation of IWMPs at the sub-basin level that allows for the integration of discrete plans into a comprehensive tool that can be applied basin-wide.

The framework will:

- Establish the underlying goals and objectives as determined at the basin-wide level;
- Suggest a process for refining region-specific goals and objectives;
- Describe data needs, acceptable protocols for data acquisition, tools for data interpretation, and models for developing and testing management scenarios;
- Consider how to integrate systems and models that quantify consumptive uses (e.g., Colorado Decision Support System, West Slope Joint Roundtable Framework Study, etc.) so that both consumptive and non-consumptive uses are considered as part of management modeling; and
- Establish the methods by which sub-basin IWMPs could be integrate for use in basin-wide planning and management.

Method/Procedure

A contractor will be utilized to develop the framework. Some work on data collection protocols and acceptability of modeling tools has already occurred through the CBRT process. The contractor's work will consider those discussions and outcomes while recommending additional, suitable protocols and tools.

Deliverable

Draft and final guidance document that draws on work completed in Tasks 1 through 4 to articulate how to developing IWMPs at the sub-basin level that allows for the integration of discrete plans into a comprehensive tool that can be applied basin-wide.

TASK 5 – Project Management/Administration, including Reporting and Final Deliverable

Description of Task

This task includes contract and fiscal management, solicitation of and management of project consultants, and coordination with the CBRT and its subcommittees involved in project execution.

Method/Procedure

CMU's Water Center will be the fiscal agent and administrative reporting agency for this grant. The Water Center will designate Hannah Holm as the Project Representative. The IWMP Subcommittee of the CBRT will advise on project management elements throughout the term of the project. Hannah's resume and a list of IWMP Subcommittee members is contained in Attachment A.

Deliverable

Twice-yearly progress reports (three estimated) that describe the completion or partial completion of Tasks 1 through 4 including a reporting of any major issues that have arisen and the corrective action taken to address those issues. A final report will be submitted at project completion, summarizing the project, all documents and other deliverables, and how the project was completed.

Applicant Qualifications and Organizational Capacity

The Colorado Basin Roundtable, its IWMP subcommittee and the Water Center will provide strong leadership for this project, with the Roundtable and the subcommittee providing oversight and the Water Center managing the project.

The Colorado Basin Roundtable has a proven ability to successfully guide major collaborative projects to fruition, having successfully solicited and overseen several rounds of the Water and Energy Study and the development of the Watershed Flow Evaluation Tool, as well as the Colorado Basin Implementation Plan. The IWMP subcommittee includes several members that were deeply involved in these earlier efforts. Members have diverse skill sets and perspectives, which will help ensure that the resources and framework developed through this process are relevant and sensitive to the diverse stakeholders in the Colorado Basin.

The Water Center has established itself as a trusted, neutral entity with a strong record of inclusiveness and collaboration with diverse stakeholders in developing programs that address water challenges in western Colorado and the rest of the Upper Colorado River Basin. Water Center staff have worked with the Colorado Basin Roundtable for several years on outreach and education efforts and are familiar with the principal issues and interests in the basin.

Water Center Director Dr. Gigi Richard, a hydrologist and civil engineer with a strong background in GIS, will provide technical oversight for this project. Water Center Coordinator Hannah Holm will conduct most of the day-to-day management of this project and the majority of the literature review and facilitation work. Hannah has significant experience in project management and facilitation, having coordinated the process of establishing the Water Center, as well as its operations since its founding in 2011. The Water Center will also draw on the financial and legal contract management infrastructure of the University, as well as the expertise of

its own staff to ensure that this project is competently administered. Access to assistance from student workers will also facilitate the cost-effective completion of this project.

The Water Center is also well-positioned to make the information generated through this project broadly available to all interested parties. This project will build on and make use of the ongoing effort of the Water Center to establish and maintain a web-based Upper Colorado River Basin Resource Guide to increase access to water-related reports developed and housed by diverse entities across the Upper Colorado River Basin. Working with technology and protocols managed by CMU's library, the basic infrastructure of this guide has already been developed. Task 1 of this project will help populate this guide, and the existing infrastructure of the resource guide will make the contents of the literature database developed for this project easily accessible to all. The information synthesis and guidance documents will also be made available through the Resource Guide.

Proposal Effectiveness

Knowledge and stakeholder acceptance/engagement from the myriad water users are key for any IWMP to work in the Colorado Basin. The project team will measure success in achieving its objective to develop an IWMP framework by tracking the successful completion of the deliverables for each task and the degree of stakeholder participation and response to the developing and final framework guidance document, as well as the number of more localized plans that are developed as a result. Participation and response to project reports will be tracked by the applicant.

REPORTING AND FINAL DELIVERABLE

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the statement of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

BUDGET and SCHEDULE

<i>task</i>	<i>target start date</i>	<i>target finish date</i>	<i>Responsible parties</i>	<i>WSRA CBRT funds</i>	<i>CWCB CWRP \$ (pending)</i>	<i>CMU \$ in hand</i>	<i>In- Kind</i>	<i>Total</i>
Task 1 - lit review/ compilation	Mar- 16	Dec- 16	Water Center, Watershed Groups, Agencies	10,524	13,482	9,995	5,060	39,061
Task 2 - information synthesis	Dec- 16	May- 17	Contractor		45,000			45,000
Task 3 - Facilitation/ outreach - 16 mtgs	Oct- 16	Nov- 17	Water Center, Roundtable, Subcommittee	12,880			14,720	27,600
Task 4 - Develop Framework	Jun-17	Nov- 17	Contractor	20,000				20,000
Task 5 - Project Management	Mar- 16	Nov- 17	Water Center, Subcommittee		9,465		9,476	18,941
TOTALS				43,404	67,947	9,995	29,256	150,602

Additional budget detail can be found in Exhibit C.

SCHEDULE

See **Budget and Schedule** above

PAYMENT

Payment will be made based on actual expenditures and invoicing by the applicant. Invoices from any other entity (i.e. subcontractors) cannot be processed by the State. The request for payment must include a description of the work accomplished by major task, and estimate of the percent completion for individual tasks and the entire water activity in relation to the percentage of budget spent, identification of any major issues and proposed or implemented corrective actions. The last 5 percent of the entire water activity budget will be withheld until final project/water activity documentation is completed. All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and help promote the development of a common technical platform.

BUDGET DETAIL BY TASK

	party	hrs	rate	total	notes	CWCB CWRP SMP \$	CWCB WSRA \$	CMU \$	In-Kind	Total
Task 1 - lit review and compilation										
	CMU	520	40	20,930	Hannah (sal + ben)	8,452	6,982	5,495		20,930
	CMU	300	15	4,500	students			4,500		4,500
	WGs	100	25	2,500	5 watershed grps*20 hrs	2,500				2,500
	CMU	220	51	11,132	Gigi (sal + ben)	2,530	3,542		5,060	11,132
task 1 total	CMU	1140		39,061		13,482	10,524	9,995	5,060	39,061
Task 2 - information synthesis										
	Cont			45,000		45,000				45,000
Task 3 - Facilitation/ outreach - 16 mtgs										
	CMU	320	40	12,880	Hannah		12,880			12,880
	comm	400	23	9,200	5 people * 5 hrs * 16				9,200	9,200
	CBRT	240	23	5,520	20 people*4 mtgs*3 hrs				5,520	5,520
task 3 total				27,600		-	12,880		14,720	27,600
Task 4 - Develop Framework										
	Cont			20,000			20,000			20,000
Task 5 - Project Management										
	CMU	30	40	1,208	Hannah	1,208	-			1,208
	CMU	120	40	4,830	Hannah	4,830				4,830
	comm	180	23	4,140	5 people * 3 hrs * 12 mtg				4,140	4,140
	CMU	60	40	2,415	Hannah	2,415				2,415
	CMU	80	51	4,048	Gigi	1,012			3,036	4,048
	comm	100	23	2,300	5 people * 2 cont * 10 hrs				2,300	2,300
task 5 total				18,941		9,465	-		9,476	18,941
TOTAL										
				150,602		67,947	43,404	9,995	29,256	150,602

BUDGET DETAIL BY BUDGET CATEGORY

Budget Categories	Total Project Cash	CWCB CWRP SMP Grant (Cash)	Shell Grant (CMU Cash)	CWCB WSRA Grant (Cash)	In-Kind Match	TOTAL Project
Salary & Wages						
Hannah Holm (\$35 hr x 1050 hrs)	36,750	14,700	4,778	17,272		36,750
Gigi Richard (\$44 hr x 140 hrs)	6,160	3,080		3,080		6,160
Gigi Richard (\$44 hr x 160 hrs)						
Academic Year					7,040	7,040
Students (\$15 hr x 300 hrs)	4,500		4,500			4,500
Watershed Groups (\$25 hr * 100 hrs)	2,500	2,500				2,500
Co Basin RT committee (5 people x 5 hrs x 16 meet x \$23 hr)					9,200	9,200
Co Basin RT committee (5 people x 3 hrs x 12 meet x \$23 hr)					4,140	4,140
Co Basin RT committee (5 people x 10 hrs x 2 meet x \$23 hr)					2,300	2,300
CO Basin RT members (20 people x 3 hrs x 4 meet x \$23 hr)					5,520	5,520
Total Salary & Wages	49,910	20,280	9,278	20,352	28,200	78,110
Fringe Benefits						
Hannah Holm @15%	5,512	2,205	717	2,590		5,512
Gigi Richard @ 15%	924	462	-	462		924
Gigi Richard @ 15%					1,056	1,056
Total Fringe Benefits	6,436	2,667	717	3,052	1,056	7,492
Consultants/Contractors						
Task 2 - Information Synthesis	45,000	45,000				45,000
Task 4 - Develop Framework	20,000			20,000		20,000
Total Consultants/Contractors	65,000	45,000	-	20,000	-	65,000
Total Direct Costs	121,346	67,947	9,995	43,404	29,256	150,602

Funding Source Percentage Table		
CWCB CWRP SMP Funds	67,947	45%
CWCB WSRA Funds	43,404	29%
Subtotal CWCB Funds	111,351	74%
Private Grant Funds	9,995	
In Kind Contributions	29,256	
Subtotal Non CWCB Funds	39,251	26%
Total Project Costs	150,602	100%

Exhibit B: Map

