

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
July 16-17, 2014
Agenda Item 20(d)

Applicant: Coal Creek Watershed Coalition

Water Activity Name: McCormick Ditch Reconstruction

Water Activity Purpose: Nonconsumptive, Agricultural and M&I

County: Gunnison

Drainage Basin: Gunnison

Water Source: Coal Creek

Amount Requested: \$21,346

Source of Funds: Gunnison Basin Account

Matching Funds: \$42,495 (67%) combined cash and in-kind of total project costs (refer to *Funding Overview/Matching Funds*)

Staff Recommendation
Staff recommends conditional approval (refer to Issues/Additional Needs) of up to \$21,346 from the Basin Account to assist in the funding of the project titled: McCormick Ditch Reconstruction

Water Activity Summary: The funding being requested by CCWC is to be used for the reconstruction of the McCormick Ditch diversion, which will improve efficiency for its agricultural and municipal users and eliminate the need for yearly maintenance. The project will also benefit nonconsumptive uses by lessening the impact of the diversion on the natural flows of Coal Creek and rehabilitating the creek for habitat and as a recreation amenity within the Town of Crested Butte. The current diversion is a gravel push-up dam, requiring frequent maintenance resulting in damage to the ecological resources of the creek and cost to irrigators. The project will replace the push-up dam with a permanent structure, which will reconstruct a morphologically balanced channel. The project will improve an existing water supply with pre-1922 water rights by making the diversion more reliable and efficient. It will also improve water quality by reducing sediment movement resulting from annual maintenance, and it will restore riparian habitat along Coal Creek. Project tasks include demolishing and removing the existing diversion structure, installing boulders for the new diversion structure, installing toe logs, and cutting and planting willows. Measurable results include 160 linear feet of restored stream, 0.25 acres of restored habitat, and \$1500/year saved

Discussion:

The original application request was in the amount of \$23,346, though the Basin Roundtable only approved \$21,346. The town of Crested Butte has pledged to fund \$2,000 of the McCormick Ditch Reconstruction project, accounting for the \$2,000 discrepancy.

Issues/Additional Needs:

Prior to execution of a WSRA Grant contract the applicant and CWCB staff will finalize the Statement of Work, Budget and Schedule.

Funding Overview/Matching Funds

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
WSRA Gunnison Basin Account	\$21,346	n/a	\$21,346
Town of Crested Butte & Bill Lacy	\$0	\$17,150	\$17,150
Upper Gunnison River Water Conservancy District	\$23,345	\$0	\$23,345
Town of Crested Butte	<u>\$2,000</u>	<u>\$0</u>	<u>\$2,000</u>
Total Project Costs	\$46,691	\$17,150	\$63,841

Staff Recommendation:

Staff recommends conditional approval (refer to **Issues/Additional Needs**) of up to \$21,346 from the Basin Account to assist in the funding of the project titled: McCormick Ditch Reconstruction.

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 and Final Deliverable: 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. 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. Applicants are also happy to present the report in person to grantor meetings.

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 Gunnison Basin Roundtable
501 Palmer Street
Delta, CO 81416

May 12, 2014

Mr. Craig Godbout
Intrastate Water Management and Development Section
COLORADO WATER CONSERVATION BOARD
1580 Logan Street, Suite 600
Denver, CO 80203

Re: Grant Request from the Water Supply Reserve Account
High Country Conservation Advocates & Coal Creek Watershed Coalition
McCormick Ditch Reconstruction Project

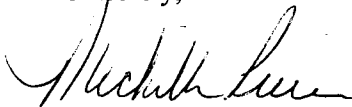
Dear Mr. Godbout:

This letter is presented to advise you that the amended grant application submitted by High Country Advocates & Coal Creek Watershed Coalition for \$21,346 from Basin Account funds from the Water Supply Reserve Account for the McCormick Ditch Reconstruction Project was reviewed by the Gunnison Basin Roundtable and its Project Screening Committee, and was approved by a unanimous vote of the Gunnison Basin Roundtable during our meeting on May 5, 2014.

This water activity meets the provisions of Section 37-75-104(2), Colorado Revised Statutes. The requirements/language from the statute is provided in Part 3 of the Criteria and Guidelines.

This activity furthers basin-wide consumptive needs for the Gunnison Basin by improving efficiency for its agricultural and municipal users and eliminating the need for yearly maintenance. The project will also benefit nonconsumptive uses by lessening the impact of the diversion on the natural flows of Coal Creek and rehabilitating the creek for habitat and as a recreational amenity within the Town of Crested Butte.

Sincerely,



Michelle Pierce
Chair

cc: Tom Alvey (e-mail)



COLORADO WATER CONSERVATION BOARD



WATER SUPPLY RESERVE ACCOUNT APPLICATION FORM

Today's Date: March 28, 2014

McCormick Ditch Reconstruction

Name of Water Activity/Project

High Country Conservation Advocates and
Coal Creek Watershed Coalition

Name of Applicant

Gunnison

Amount from Statewide Account:

0

Amount from Basin Account(s):

\$23,346

Total WSRA Funds Requested:

\$23,346

Approving Basin Roundtable(s)

(If multiple basins specify amounts in parentheses.)

FEIN 84-0772688

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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 (CWCBC). 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 CWCBC 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 CWCBC 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>

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
1580 Logan Street, Suite 200
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):	High Country Conservation Advocates and Coal Creek Watershed Coalition		
	Mailing address:	PO Box 1066 Crested Butte, CO 81224		
	FEIN #:	84-0772688		
	Primary Contact:	Jennifer Bock	Position/Title:	Water Director, HCCA
	Email:	jen@hccaonline.org		
	Phone Numbers:	Cell: 303-885-2359	Office:	970-349-7014 ext. 4
	Alternate Contact:	Zach Vaughter	Position/Title:	Exec Dir, Coal Creek
	Email:	director@coalcreek.org		
	Phone Numbers:	Cell: 615-594-4676	Office:	

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

High Country Conservation Advocates (HCCA, formerly High Country Citizens' Alliance) is a regional conservation group founded in 1977, dedicated to preserving the rivers, wild places and wildlife of the Upper Gunnison River Basin. HCCA is based in Crested Butte and has over 700 members. It is a 501(c)(3) non-profit, and its programs are supported by individual donations, memberships and grants.

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

Coal Creek Watershed Coalition is a collection of citizens, representatives from local, state, and federal agencies as well as local community groups. The organization brings together diverse interests and backgrounds and strives to reach decisions through consensus and collaboration. The mission of the Coal Creek Watershed Coalition is to maintain, restore, and enhance the environmental integrity of Crested Butte's local watersheds to ensure those local watersheds and habitats are of the highest possible quality necessary to support wildlife, aquatic life, and human life.

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.

NONE

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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.

The reconstruction of the McCormick Ditch diversion will improve efficiency for its agricultural and municipal users and eliminate the need for yearly maintenance. The project will also benefit nonconsumptive uses by lessening the impact of the diversion on the natural flows of Coal Creek and rehabilitating the creek for habitat and as a recreational amenity within the Town of Crested Butte.

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)

160 ft. Length of Stream Restored or Protected (linear feet)

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

\$1500/y Efficiency Savings (acre-feet/year OR dollars/year – **circle one**)

.25 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:

38°52' 21.26°N

Longitude:

106°59' 5.06°W

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.

The McCormick Ditch is located at the lower end of Coal Creek, within the Town of Crested Butte. The current diversion is a gravel push-up dam which requires frequent maintenance resulting in damage to the ecological resources of the creek and cost to irrigators. This diversion reconstruction project is a partnership between an environmental group, a watershed group, and the Town of Crested Butte. We have discussed the project with the private irrigator and obtained his approval. The project will replace the push up dam with a permanent structure which will reconstruct a morphologically balanced channel. This project will improve an existing water supply with pre-1922 water rights by making diversions more reliable and efficient. It will also improve instream water quality by reducing sediment mobilized by annual maintenance, and it will restore riparian habitat along Coal Creek. Please see the attached Exhibit A statement of work and budget for further detail.

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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

The project will help preserve and protect water rights held by the Town of Crested Butte and an irrigator by improving diversion efficiency at the McCormick Ditch. The project has no other impact on water rights.

- 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.

Please see letter from Gunnison Basin Roundtable.

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.

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

Not Applicable.

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 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. 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.
- 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.

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

Please attach additional pages as necessary.

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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.

The McCormick Ditch serves the Town of Crested Butte and the Verzuh Ranch with municipal parks and agricultural irrigation water drawn from Coal Creek. The water rights associated with the Ditch date to 1906 and 1961 adjudications. Please see attached as Exhibit C the Structure Summary Report describing the Ditch and its water rights.

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

Please see McCormick Ditch Diversion Reconstruction Project Map and Schematics, Attached as Exhibit B. We do not anticipate any permitting issues.

3. Statement of Work, Detailed Budget, and Project Schedule—Attached as Exhibit A

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.

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

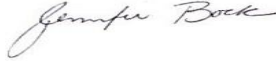
Payment will be made based on actual expenditures and invoicing by the applicant. Invoices from any other entity (i.e. subcontractors) cannot be processed by the State. The request for payment must include a description of the work accomplished by major task, and estimate of the percent completion for 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 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.

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

Signature of Applicant:



Print Applicant's Name: High Country Citizens' Alliance and Coal Creek Watershed Coalition

Project Title: McCormick Ditch Diversion Reconstruction

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

Craig Godbout – WSRA Application
Colorado Water Conservation Board
1580 Logan Street, Suite 200
Denver, CO 80203
craig.godbout@state.co.us

McCormick Ditch Diversion Reconstruction: Project Statement of Work

I. Introduction

The McCormick Ditch serves the Town of Crested Butte and the Verzuh Ranch with municipal parks and agricultural irrigation water drawn from Coal Creek. The water rights associated with the Ditch date to 1906 and 1961 adjudications.

The current diversion structure for the McCormick Ditch is a gravel push-up dam which dominates Coal Creek at 4th and Teocalli Avenue in the Town of Crested Butte. High spring flows necessitate frequent maintenance on the dam which involves heavy equipment in the stream bed, dredging up sediment and damaging the riparian corridor just upstream of the Butte Avenue Bridge and Coal Creek's confluence with the Slate River.

The Project will replace the existing push-up dam with a permanent diversion structure which will be more efficient, not require yearly maintenance and will better conform to the natural contours of Coal Creek. Riparian habitat will be rehabilitated with the installation of toe logs and willows.

II. Project Sponsors and Participation

-High Country Conservation Advocates (HCCA, formerly known as High Country Citizens' Alliance) is a regional conservation group founded in 1977, dedicated to preserving the rivers, wild places and wildlife of the Upper Gunnison River Basin. HCCA is based in Crested Butte and has over 700 members. It is a 501(c)(3) non-profit, and its programs are supported by individual donations, memberships and grants. HCCA is a project sponsor, and is the primary contact for project coordination, funding, and reporting.

-Coal Creek Watershed Coalition (CCWC) is a collection of citizens, representatives from local, state, and federal agencies as well as local community groups. The organization brings together diverse interests and backgrounds and strives to reach decisions through consensus and collaboration. The mission of the Coal Creek Watershed Coalition is to maintain, restore, and enhance the environmental integrity of Crested Butte's local watersheds to ensure those local watersheds and habitats are of the highest possible quality necessary to support wildlife, aquatic life, and human life. CCWC is a co-sponsor, and will receive funds and provide project management, in kind labor donations and volunteers.

-Town of Crested Butte is a water rights holder in the McCormick Ditch. The Town is a project partner, and will provide in-kind donations of equipment and labor. The Town will be the primary contact for construction along with Crane Associates. (See detailed budget below for in kind descriptions).

-Crane Associates is the engineer and designer of the project. They have previously designed a similar diversion reconstruction upstream on Coal Creek for the Halazon Ditch and will provide construction oversight for this project.

-Bill Lacy is a water rights holder in the McCormick Ditch. Mr. Lacy supports the project and its objectives.

III. Project Benefits

Upon completion of the project, irrigators, the environment and the public will realize the following benefits:

- Cost savings from elimination of need for yearly maintenance.
- Efficient capture of water for diversion and delivery into McCormick Ditch.
- Reduction in sediment mobilization and disturbance to the Creek bed.
- Visual advantages of a natural looking diversion structure within Town limits.
- Aquatic connectivity for the lower segment of Coal Creek to its confluence with the Slate River.
- Creation of improved riparian and fish habitat.

IV. Timeline and Tasks

Demolition of the current structure and construction of the new diversion will take place in the low water month of September 2014. Total time for construction is expected to be one week, and will be dependent upon the schedule of the Town of Crested Butte and Crane Associates. Following the completion of construction, willows will be planted in October with the help of local volunteers. A full report to grantors will be available by November 15, 2014.

Task #1 Demolish and remove existing diversion structure: The current push-up gravel dam will be demolished. Material remaining in the stream from deconstruction of the dam will be re-graded and converted into part of a natural gravel bar and floodplain.

Task #2 Install Boulders for new diversion structure: The new diversion structure will be constructed from 2 to 3' diameter boulders installed on top of a 12" bed of gravel wrapped in filter fabric. A bed of willow cuttings will be installed between the bottom of the filter fabric and the gravel bed. The new diversion channel will be narrowed to approximately 10' wide and is designed for 10 cfs of flow.

Task #3 Install Toe logs: Toe logs will be installed along the toe of the right channel and will provide erosion control and habitat features.

Task #4 Cut and plant willows: Willow cuttings and other native riparian vegetation will be planted throughout the newly created floodplain. Additional willow cuttings will be planted to repair all staging areas.

*Please see attached design plans for detailed schematics of the diversion reconstruction. However, some small modifications may be made to the design including diversion channel width and elevations.

V. Deliverables

- HCCA and CCWC will provide a full report to each grantor upon completion of the project, in the fall of 2014. The report will document project work with a brief engineering report, before/during/after photographs, and a discussion of any changes to the above statement of work responsive to circumstances on the ground. HCCA and CCWC are also happy to present the report in person to grantor meetings.

VI. McCormick Ditch Diversion Project Budget

			UNIT	EST	SUB TOT	
ITEM DESCRIPTION	UNIT	QTY	COST	COST	COST	
<u>Mobilization/Demobilization</u>						
Equipment Transport (12)	LS	1	\$1,000	\$1,000		
					\$1,000	
<u>Diversion Structure</u>						
Demo and remove ex structure	CY	150	\$5	\$750		
Excavation w/rock hammer	CY	200	\$15	\$3,000		
3' boulders delivered & placed	CY	170	\$100	\$17,000		
1 1/2" gravel rock bed installed	CY	60	\$20	\$1,200		
Toe logs installed	LF	200	\$20	\$4,000		
Grout boulders	CY	20	\$250	\$5,000		
Willows cut and planted	LF	200	\$10	\$2,000		
Water control	LS	1	\$2,000	\$2,000		
					\$34,950	
Labor Tasks (In Kind Contributions)						Operator
Best Management Practices- repair and staging				\$500		Town of CB
Demolish and Remove Existing Structure				\$750		Town of CB
3' Boulder Placement				\$8,500		Town of CB
1 1/2" Gravel Rock Installation				\$600		Town of CB
Toe Logs Installation				\$2,000		Town of CB
Water Control				\$2,000		Town of CB
Best Management Practices- willows cut and planted				\$1,800		Coal Creek Watershed Coalition (CCWC)
To Be Determined				\$1,000		Bill Lacy
SUBTOTAL LABOR					\$17,150	
SUBTOTAL MATERIAL COSTS					\$35,950	
CONTINGENCY (15%)					\$5,393	
CONSTRUCTION SUBTOTAL (not incl. in kind labor)					\$41,343	
Project administration (13%)					\$5,348	(\$4,192 to Crane Associates for construction oversight, \$1,183 to CCWC for project management)
TOTAL MATERIAL COST + Administration					\$46,691	(\$23,345 granted by the UGRWCD)
In Kind Contributions					\$17,150	
TOTAL PROJECT COST					\$63,841	