

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
September 21-22, 2016
Agenda Item 19(i)

Applicant & Fiscal Agent: Holbrook Mutual Irrigation Company

Water Activity Name: Holbrook Reservoir #1 Outlet Flow Measurement Upgrade, Phase I

Water Activity Purpose: Multipurpose

County: Otero

Drainage Basin: Arkansas

Water Source: Arkansas River

Amount Requested/Source of Funds: \$10,000 Arkansas Basin Account
\$20,000 Statewide Account
\$30,000 Total Grant Request

Matching Funds: Basin Account Match (\$10,000) = 33.3% of total grant request;
Applicant Match (\$10,500) = 35% of total grant request
Basin & Applicant Match (\$20,500) = 68.3% of total grant request
(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:

Staff recommends approval of up to \$10,000 from the Arkansas Basin Account; and \$20,000 from the Statewide Account to help fund the project titled: Holbrook Reservoir #1 Outlet Flow Measurement Upgrade, Phase 1.

Water Activity Summary: WSRF grant funds, if approved, will be expended to assist in the rehabilitation and replacement of existing measuring structures and devices, and the outlet structure. Rehabilitation of the outlet structure will allow measurement under low flow conditions that will enhance the ability of the State Engineer to comply with compact compliance obligations. Improvements include the installation of 2 stage broad crested weir upstream of the existing Parshall flume.

Discussion: This project furthers multiple goals and objectives of the Arkansas Basin Implementation Plan. With respect to the Colorado Water Plan, this project supports Objective A. Supply-Demand Gap: "Protect and Develop Compact Entitlements and Manage Risks," Objective D. Agriculture: "Support Agricultural Conservation and Efficiency" and Objective E. Storage: "Assess and promote opportunities for multipurpose and multi-partner storage projects that address strategic needs." (Section 10.3).

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:

This activity has undergone review and evaluation and staff has determined that it satisfies the Evaluation Criteria. Please refer to WSRA Application for applicant's detailed response.

Funding Summary/Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
Holbrook Mutual Irrigation Company	\$0	\$2,000	\$2,000
Recovery of Yield Group	\$0	\$8,150	\$8,150
WSRA Arkansas Basin Account	\$10,000	n/a	\$10,000
WSRA Statewide Account	\$20,000	n/a	\$20,000
Total Project Costs	\$30,000	\$10,150	\$40,150

CWCB Project Manager (interim): Finance Section

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.

Arkansas Basin Roundtable

May 13, 2016

Via Electronic Mail: craig.godbout@state.co.us

Mr. Craig Godbout
Colorado Water Conservation Board
1313 Sherman Street, Room 721
Denver, CO 80203

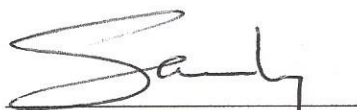
Re: Water Supply Reserve Account Grant Application: Holbrook Reservoir #1 Outlet Flow Measurement Upgrade, Phase 1

Dear Craig:

At its May 11, 2016 meeting, the Arkansas Roundtable approved the Holbrook Reservoir #1 Outlet Flow Measurement Upgrade, Phase 1 Project for \$10,000 in Basin Funds, \$20,000 in Statewide Funds with \$10,150 cash matching funds. There were no dissenting opinions expressed in the consensus decision.

This project furthers multiple goals and objectives of the Arkansas Basin Implementation Plan. With respect to the Colorado Water Plan, this project supports Objective A. Supply-Demand Gap: *"Protect and Develop Compact Entitlements and Manage Risks,"* Objective D. Agriculture: *"Support Agricultural Conservation and Efficiency,"* and Objective E. Storage: *"Assess and promote opportunities for multipurpose and multi-partner storage projects that address strategic needs."* (Section 10.3). Should you have any questions or concerns, please feel free to contact me either by telephone, 719-742-6164, or by email, sandy@white-jankowski.com.

With warm regards



Michael D. (Sandy) White
Chair

Copy via email:

Applicant
ABRT Executive Committee



COLORADO WATER CONSERVATION BOARD



WATER SUPPLY RESERVE ACCOUNT APPLICATION FORM

Today's Date: April 19th 2016, updated 20160512

Holbrook Reservoir #1's Outlet Flow Measurement Upgrade, Phase 1

Name of Water Activity/Project

Holbrook Mutual Irrigating Company

Name of Applicant

Arkansas Basin

Amount from Statewide Account:

\$20,000

Amount from Basin Account(s):

\$10,000

Total WSRA Funds Requested:

\$30,000

Approving Basin Roundtable(s)

(If multiple basins specify amounts in parentheses.)

FEIN: 84-0434705

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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)

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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):	Holbrook Mutual Irrigating Company		
Mailing address:	Post Office Box 34 Cheraw, CO 81030		
FEIN #:	84-0434705		
Primary Contact:	Nick Koch	Position/Title:	Agricultural Engineer
Email:	Kochdeer@Yahoo.com		
Phone Numbers:	Cell: 719-469-6530	Office:	N/A
Alternate Contact:	Donny Hansen	Position/Title:	Board President
Email:	DonnyHansen57@Gmail.com		
Phone Numbers:	Cell: 719-469-3315	Office:	N/A

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
The Holbrook Irrigation District, also known historically as the Laguna Canal Company, is a mutual irrigating company in charge of irrigation water distribution to water rights holders. In June, 1888 Henry Holbrook from Arapahoe County filed an intent to survey and construct the Holbrook Canal from the north bank of the Arkansas River, terminating in the Horse Creek valley at Holbrook Reservoir. The canal was extended to the reservoir site in 1892, with the reservoir construction completed 1895.
4. If the Contracting Entity is different then the Applicant (Project Sponsor or Owner) please describe the Contracting Entity here.
N/A
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)

- | | |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | Nonconsumptive (Environmental or Recreational) |
| <input checked="" type="checkbox"/> | Agricultural |
| <input checked="" type="checkbox"/> | Municipal/Industrial |
| <input checked="" type="checkbox"/> | Needs Assessment |
| <input type="checkbox"/> | Education |
| <input checked="" type="checkbox"/> | Other |

Explain:

This project will improve the useable storage in the reservoir and make it possible to correctly measure augment and low return flows.

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

This project shall provide more opportunities for the following organizations: Historic Arkansas River Walk of Pueblo (HARP); Sierra Club; Trout Unlimited; Colorado Parks and Wildlife; Audubon Society; and other Recreational Activities.

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

- | | |
|--------------------------------|--|
| <input type="checkbox"/> Study | <input checked="" type="checkbox"/> Implementation |
|--------------------------------|--|

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

- | | |
|----------------------|--|
| <input type="text"/> | New Storage Created (acre-feet) |
| <input type="text"/> | New Annual Water Supplies Developed, Consumptive or Nonconsumptive (acre-feet) |
| 7,472 | Existing Storage Preserved or Enhanced (acre-feet) |
| <input type="text"/> | Length of Stream Restored or Protected (linear feet) |
| <input type="text"/> | Length of Pipe/Canal Built or Improved (linear feet) |
| <input type="text"/> | Efficiency Savings (acre-feet/year OR dollars/year – circle one) |
| <input type="text"/> | Area of Restored or Preserved Habitat (acres) |
| <input type="text"/> | Other -- Explain: <input type="text"/> |

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

Latitude:

38-03' 37"N

Longitude:

103-36' 08"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. *Rehabilitation of the Holbrook Outlet Structure is intended to measure low flow conditions of between 1 cubic foot per second (cfs) and 14 cfs to better comply with the Division 2 Engineers office and administration of compact compliance of the Arkansas River Compact. Restoration of the aging outlet structure will also preserve storage in the Reservoir, which is a recreational amenity to the local community.*

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 activity is consistent with the referenced Section.
 - 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.
Chairman's approval letter is under separate cover.
 - 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

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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.

- 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 but 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)

Matching Fund Sources are: Holbrook Mutual Irrigating Company for Project Management and In Kind Services and Recovery Of Yield (ROY) Group for Electronic Water Measuring and Telemetry Equipment.

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

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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- 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).

This project addresses multiple community needs in Otero County, Colorado. Holbrook Reservoir is the only water impoundment in Otero County, meeting municipal, recreational, environmental and agricultural needs.

- 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.

Aurora Water, as a member of the regional Recovery Of Yield (ROY) Group, is a project participant and is providing matching funds. Providing accurate measurement of low-flow releases to meet irrigation and other augmentation requirements directly benefits the Division 2 Engineers Office in meeting state-line flows with Kansas. Agricultural, municipal and recreational interests are combined in cooperating in the development of this project.

- 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.

This project addresses three (3) identified needs in the Arkansas Roundtable BIP.

540	ARK-2015-0540	Aging Infrastructure Replacement	Aging infrastructure.	Replace aging infrastructure for agriculture and municipalities.	Implementation Ongoing	LAVWCD and others
541	ARK-2015-0541	Lake Levels	Need for additional water and augmentation water to prevent downstream injury.	Develop water or a plan to keep lake level high. Need to make deals with owner of water rights to keep lake levels high for recreation.	Implementation Ongoing	LAVWCD and others
542	ARK-2015-0542	Rehabilitation of Dams	Deferred maintenance on dams.	Dams in the state have been neglected for many years and maintenance has been deferred. These dams are in need of repair.	Implementation Ongoing	LAVWCD and others

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).

This grant will allow the construction activity to proceed in the Fall of 2016, following the irrigation season, providing improved water management for 2017.

- 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. ***The cash match exceeds 25% of the grant request. The Arkansas Roundtable basin fund commitment is 25% of the total project cost.***

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. ***This project provides increased storage capacity and greater efficiency of use for a major recreational amenity in Otero County. Holbrook Reservoir is also a very active site for bird watchers.***

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- 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.

The goal of more effective water resource management to meet augmentation requirements derived from the Kansas v. Colorado lawsuit are met by this project activity.

- h. The water activity assists in the recovery of threatened and endangered wildlife species or Colorado State species of concern.

The expectation is this project will improve habitat for enhanced bird watching. Following approval by the Arkansas Basin Roundtable, the applicant is reaching out to the Environmental Representative on the Roundtable for further understanding of this dynamic issue.

- i. The water activity provides a high level of benefit to Colorado in relationship to the amount of funds requested.

While relatively small in comparison to other grants, this application will have a direct, beneficial impact on a significant portion of the population in the Lower Arkansas Valley.

- j. The water activity is complimentary to or assists in the implementation of other CWCB programs.

This activity supports the on-going compliance and management role for CWCB with respect to the Arkansas River Compact Administration.

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

Please attach additional pages as necessary.

Also:

For Tier 1:

1. Increased Flexibility for decreed water delivery and use to multiple identities to meet Colorado's future water needs.
2. Help Create Future return flow opportunities and needs for multiple water user options.

For Tier 2:

1. The Sponsor (Holbrook Mutual Irrigating Company) is providing Project Management and In Kind Contributions.
2. The ROY Group is providing all the Electronic Water Measuring and Telemetry Equipment.

For Tier 3:

1. Shall Help Sustain Colorado Agriculture's Future Needs by Expanding Water Partnership Opportunities.
2. Provide More Stored Water to Help Address Recreational Needs/Desires AND For more bird watching opportunities.
3. Shall Assist in the Implementation and Providing of Future Support Opportunities for other Colorado Water Conservation Board (CWCB) Planned Programs and Activities, i.e. Pending Southeastern Colorado Water Conservancy District's Application for Water Rights for Adjudication of Conditional Appropriative Rights of Exchange Augment and Water Exchange.

Part IV. – Required Supporting Material

1. **Water Rights, Availability, and Sustainability** – This information is needed to assess the viability of the

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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.

- a. Holbrook Irrigating Company has a First Storage Appropriation for 4,247.06 acre feet dated March 2, 1892.*
- b. Holbrook Irrigating Company has a Second Storage Appropriation for 3,196.00 acre feet dated September 15, 1909.*
- c. Holbrook Irrigating Company has Two Decreed Storage Water Rights for Reservoir 1.*
- d. Holbrook Irrigating Company has Two Direct Flow River Water Rights, 155 cfs 9/25/1889 and 455 cfs 8/30/1893.*

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

- a. Coordination with the Division 2 Engineers office is a critical task within the project scenario.*

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.

See Exhibit A below.

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

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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 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:

Donny Hansen

Print Applicant's Name: Donny Hansen

Project Title: Holbrook Mutual Irrigating Company Reservoir No. 1's Outlet Flow Measurement Upgrade, Phase 1

Date: *May 12 - 2016*

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)

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Exhibit A: Statement of Work

WATER ACTIVITY NAME – Holbrook Reservoir Outlet Flow Measurement Upgrade Project, Phase 1.

GRANT RECIPIENTS – Holbrook Mutual Irrigating Company. **FISCAL AGENT:** Holbrook Mutual Irrigating Company

FUNDING SOURCE – Water Supply Reserve Account - \$30,000. **Matching Funds:** Holbrook Mutual Irrigating Company - \$2,000; Recovery Of Yield Group - \$8,150. **Total Budget: \$40,150.**

PROJECT INTRODUCTION AND BACKGROUND

Holbrook Mutual Irrigating Company Reservoir #1 has the capability to store approximately 6,250 ac. ft. of water at the emergency spillway elevation, at reservoir staff gage 19.60. The current principal spillway discharge is reduced at low reservoir elevations because the parshall flume invert elevation is 2.5 ft. higher than the principal spillway outlet invert. Shallow or low reservoir water elevations provide very low reservoir discharges.

OBJECTIVES

The objectives are as follows:

- Objective 1 – Install a 2 stage broad crested weir just upstream of the existing parshall flume.
- Objective 2 – Manage the project through construction to completion, with a final report submitted to the funding agencies.

TASKS

TASK 1 - Work with the State of Colorado Water Division 2 Lead Hydrographer to obtain approval of the 2 stage broad crested weir flow discharge table, identify on site electronic recording and measurement verification needs and requirements. Install all telemetry equipment, foot bridge, and building.

TASK 2 - Dewater the construction site immediately upstream of the proposed structure, saw cut and remove a 7 ft. wide by 1.5 ft. deep chunk of concrete from the existing parshall flume, and purchase and place 18” to 24” riprap outlet protection immediately below the parshall flume as directed.

TASK 3 - Excavate and place the concrete forms with reinforcing steel to the approved hydraulic design requirements.

TASK 4 - Pour, properly place, finish, and cure the planned 5,000 psi low slump concrete.

TASK 5 – Provide complete Project Management to include contracting; pre, on site, final, and post construction oversight of all the project activities. Periodic reviews during the first two irrigation seasons to include State of Colorado Water Division validation and evaluation for probable Phase 2 plan of work activities.

REPORTING AND FINAL DELIVERABLES

Reporting

The applicant shall provide the Colorado Water Conservation Board (CWCB) a final progress report. The

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progress report shall describe the 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 those issues.

Final Deliverable

At completion of the Project, the applicant shall provide the CWCB an opportunity for a site visit and, if appropriate, a meeting with the interested agencies. The final report shall include “before and after” photographs and a summary of the construction and project management activities.

BUDGET

Below is a detailed anticipated budget table by task, those identified above, including the number of hours and rates for labor and unit costs for other direct costs (i.e. mileage, \$/unit of material for construction, etc.).

Holbrook Mutual Irrigating Company Reservoir No. 1's Outlet Flow Measurement Upgrade, Phase 1

Budget						April 24 2016
	Task 1	Task 2	Task 3	Task 4	Task 5	Total
	Division 2					
	Hydrographer	Dewater	Excavate &		Project	
	Weir Flow	Site, Saw Cut	Place Rebar	Purchase	Management	
	Requirements	& Riprap	& Concrete	Concrete	& Final	
	Bridge, Bldg.	Placement	Forms	& Place	Report	Cost
Project Costs (Phase 1)						
Project Manager	\$500	\$500	\$500	\$500	\$1,000	\$3,000
Contractor Bid Estimate	\$13,000	\$5,000	\$5,000	\$10,150		\$33,150
Construction Contingency						\$4,000
						\$40,150
Direct Costs						
Travel Costs (\$.56/mile)						
Lodging & Per Diem						
Total Direct Expenses						
Project Rates					TOTAL:	
Project Manager	Mileage		As a % of Total		Matching Funds	\$10,150
\$145/hour	\$.56/mile	Contingency	25.28%		WSRA Grant Request	\$30,000
PROJECT COST TOTAL:						\$40,150

Water Supply Reserve Account – Application Form

Revised October 2013

SCHEDULE

<u>Task #</u>	<u>NTP + 30</u>	<u>NTP + 60</u>	<u>NTP + 90</u>	<u>NTP + 180</u>	<u>NTP + 360</u>
Task 1					
Task 2					
Task 3					
Task 4					
Task 5					

Exhibit B Project Maps

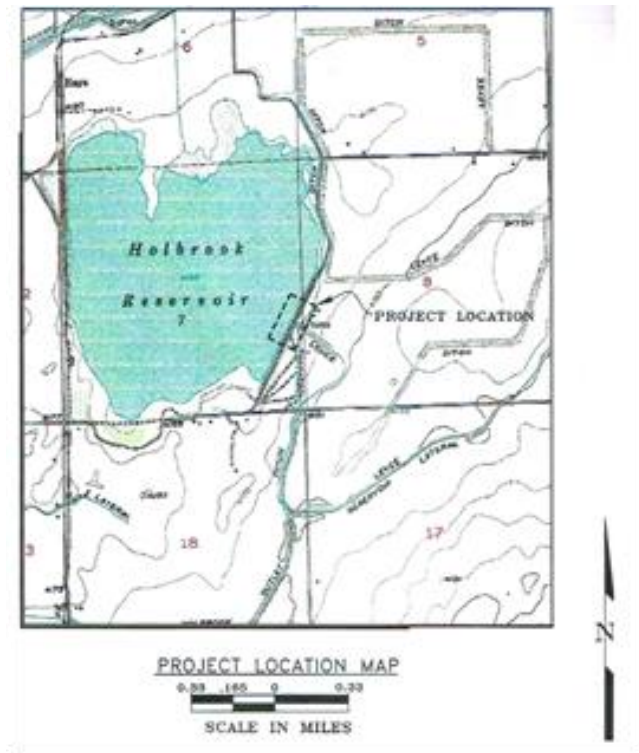
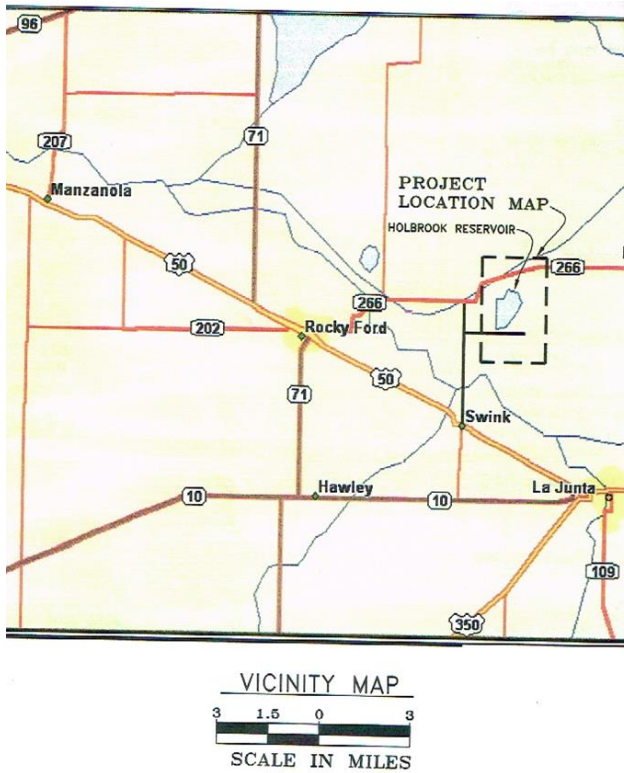


Exhibit B Project Maps

