

COLORADO WATER CONSERVATION BOARD



WATER SUPPLY RESERVE ACCOUNT APPLICATION FORM

Today's Date: 2/1/2016

Upper Arkansas Multi-Use Projects Phase I- Lake Ranch Multi-Use Pilot Project (LRMUPP) Feasibility Study

Name of Water Activity/Project

Upper Arkansas Water Conservancy District

Name of Applicant

Arkansas Basin Roundtable

Amount from Statewide Account:

\$162,944.00

Amount from Basin Account(s):

\$31,196.50

Total WSRA Funds Requested:

\$194,140.50

Approving Basin Roundtable(s)

(If multiple basins specify amounts in parentheses.)

FEIN:

Application Content

Application Instructions	page 2
Part I – Description of the Applicant	page 3
Part II – Description of the Water Activity	page 5
Part III – Threshold and Evaluation Criteria	page 7
Part IV – Required Supporting Material	
Water Rights, Availability, and Sustainability	page 10
Related Studies	page 10
Signature Page	page 12

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>. 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.

Water Supply Reserve Account – Application Form

Revised October 2013

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

1.	Applicant Name(s):	Upper Arkansas Water Conservancy District		
	Mailing address:	339 East HWY 50 P.O. BOX 1090 Salida, CO. 81201		
	FEIN #:			
	Primary Contact:	Ralph "Terry" Scanga Jr.	Position/Title:	General Manager
	Email:	manager@uawcd.com		
	Phone Numbers:	Cell:	Office:	719-539-5425
	Alternate Contact:	Chelsey Nutter	Position/Title:	Project Coordinator
	Email:	projects@uawcd.com		
	Phone Numbers:	Cell:	Office:	719-539-5425

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.

Water Supply Reserve Account – Application Form

Revised October 2013

3. Provide a brief description of your organization

The Upper Arkansas Water Conservancy District (UAWCD) was formed in 1979 pursuant to C.R.S. 37-45-102 and case number 79CV30. The district is a quasi-municipality created to conserve water resources and to provide the greatest beneficial use of water in the Upper Arkansas River Basin by construction as defined in C.R.S. 37-45-103(10): dams, reservoirs, canals, conduits, pipelines, tunnels, and all works, facilities, improvements, and property necessary or convenient for supplying water for domestic, irrigation, power, milling, manufacturing, mining, metallurgical, and all other beneficial uses. About 7,000 District customers use water for irrigation (38% of use); municipal storage (25%); and domestic and commercial augmentation (18%). Its service area covers over 2 million high mountain acres in Chaffee, Fremont, Custer and parts of Saguache and El Paso Counties.

A brief history of the applicant

In 1979, the Upper Arkansas Water Conservancy District (UAWCD) was created. In 1982, it assumed control of three high mountain reservoirs in Chaffee County. Since assuming control of the reservoirs, UAWCD has provided storage for two growing municipalities on the South Arkansas River: Salida and Poncha Springs.

From 1980-2000, UAWCD pioneered conjunctive ground water and surface water management, filing the first-ever blanket water augmentation plan for all of Chaffee and part of Fremont County. It acquired storage at two reservoirs tributary to the Arkansas River. It acquired water rights to meet increased demand for augmentation due to promulgation in 1996 of *Amended Rules and Regulations Governing the Diversion and Use of Tributary Ground Water in the Arkansas River Basin*. The Arkansas River Basin is fully-appropriated.

By the early-2000s, population escalated. Double-digit population growth increased municipal demands, intensifying the need for reservoir storage. By utilizing Pueblo Reservoir and Twin Lakes water in conjunction with its tributary storage, UAWCD increased water use efficiency and met municipal demand. To meet growing municipal and augmentation demand, UAWCD expanded the geographic extent of its blanket augmentation plans into eastern Fremont and Custer Counties. As part of its approval, the State Engineer mandated that UAWCD install remote continuous recording instrumentation at most of its reservoirs and certain stream locations.

In the late-2000s, UAWCD built 22 high mountain telemetry water data collection platforms. To do so, it leveraged federal Bureau of Reclamation funds of ~\$285,000 and state funds of ~\$285,000. The project was twice selected as a nationwide success story. More than 500,000 down-basin residents are affected by available supplies of Upper Arkansas River water. Data is managed with Colorado Division of Water Resources software so records for administration/augmentation agree. See <http://www.dwr.state.co.us/SurfaceWater/> and http://www.uawcd.com/water_resources.php

In the early 2010s, UAWCD implemented its ~\$400,000 US Geological Survey (USGS) water balance study to quantify both surface water and ground water and characterize the interaction between them in the Upper Arkansas River Basin. UAWCD leveraged federal USGS funds of ~\$135,000 and state funds of ~\$180,000. Study results will enhance the basin-wide decision-making framework for water users including municipalities, irrigators, and recreationists.

Water Supply Reserve Account – Application Form

Revised October 2013

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.

Funding will not trigger any TABOR limitations

Water Supply Reserve Account – Application Form

Revised October 2013

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: Multi-Use Feasibility Study

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

This grant application is for funding to study the feasibility of multi-use projects that will address agricultural, municipal, recreational, environmental and educational needs.

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:

Water Supply Reserve Account – Application Form

Revised October 2013

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

Latitude:

Longitude:

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.

Water Supply Reserve Account – Application Form

Revised October 2013

The Upper Arkansas Water Conservancy District (the District) is dedicated to the development of innovative water solutions that will address our future water needs. This commitment is demonstrated through the many years dedicated to the development of multi-use projects in the Upper Basin. These projects aim to integrate multiple water use components to address the “gap” through a multi-purpose approach. Currently, the District is moving forward with two multi-use projects; the Lake Ranch Multi-Use Pilot Project (LRMUPP) and the Trout Creek Park Multi-Use Project (TCPMUP), which is featured in the Arkansas Basin Implementation Plan (ArkBIP). These projects are similar in scope and share a common emphasis on the need for Upper Basin storage. The projects have the ability to address both consumptive and non-consumptive needs, while providing a high level of benefit throughout the Arkansas Basin.

The LRMUPP and the TCPMUP have the ability to address storage, agriculture, municipal, recreational and environmental needs. These projects share many of the same components, but differ in scale and available resources. The larger of the two, the TCPMUP is a large scale multi-use project developed to address multiple needs through the collaboration of private, government and public entities. Elements of the TCPMUP include: potential development of 20,000 acre-feet of storage in existing storage facilities and alluvial aquifer storage; lease fallowing options on over 1,800 acres of land decreed for irrigation; recreational opportunities in the form of fishing/ boating access; environmental benefits through protection of open space, wildlife/river corridors and creation of wetlands; and, development of a low-impact hydropower system.

As we continue to move forward with the TCPMUP we recognize the complexity of a project of this scale. The District realized the need for a smaller scale demonstration project, which led to the development of the LRMUPP. Unlike the TCPMUP, the District already owns the Lake Ranch property, associated water rights and has lease agreements for lease fallowing and other project components with the present lessee. Components of the LRMUPP include: alluvial aquifer storage and return flow mapping; lease fallowing in the forms of interruptible water supply or rotational crop fallowing; low-head low-impact hydropower supply; water supply yield enhancement and delivery improvements; educational demonstrations on alternatives to permanent dry-up, use of small scale hydropower and demonstration plots for irrigation technology and crop science R&D; environmental benefits through wetlands and protection of open space; recreational benefits through the enhancement of the Voluntary Flow Management Program; and, potential collaborations with CPW, CSU Extension, USGS, NRCS, Colorado Water Resources and Power Development Authority (CWRPDA), etc..

Multiple purpose water projects are necessary for providing additional needed water supplies in the Twenty First Century. Increasing supplies are essential for all uses of water—municipal, industrial, irrigation (agriculture), recreation and the environment. Storage and management of storage is the element common to all and is necessary to achieve success. For the purposes of this grant application, we would like to investigate the feasibility of each component of the LRMUPP. A feasibility study will allow the District to study each complex component of this pilot project and ensure the success of its implementation. Elements of the feasibility study can be transferable to the larger TCPMUP and aid in future projects to come. The LRMUPP will give the District the insight and knowledge needed for implementation of multi-use projects, while gaining vast benefits at the Lake Ranch throughout the process. The LRMUPP’s successful implementation will provide a demonstration of how to maximize utilization of State waters and address the “gap” with a multi-purpose approach.

Water Supply Reserve Account – Application Form

Revised October 2013

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 grant application is for a feasibility study and will not harm any 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.

Under Separate Cover- Arkansas Basin Roundtable Letter of Approval

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.

Water Supply Reserve Account – Application Form

Revised October 2013

- 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.

Under Separate Cover- Arkansas Basin Roundtable Letter of Approval

- 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)

Project costs to State and Basin funds may be significantly reduced...

The UAWCD is in the process of leveraging WSRA grant funds with additional grant options. It is anticipated that a 46% match will be made available through direct contributions, cost shares and Basin funds. However, the cost shares will not be made available until July 2016. These cost shares include: funding from the Severance Tax Grant in the amount of \$45,290.00 and a match from UAWCD in the amount of \$4,529.00 to help fund phase 2 of the Alluvial Aquifer Storage component; and funding through the Colorado Water Resources and Power Development Authority in the amount of \$15,000.00 for half the cost of the Hydroelectric component. If the hydroelectric matching amount is not funded through the CWRPDA, the District will cover the full amount of the hydroelectric component at \$30,569.00. The district will also receive \$5,000 of In-Kind work through the PEPO/ARBWF committees, which will provide outreach and education on both multi-use projects (See Anticipated Funding Budget).

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.

Water Supply Reserve Account – Application Form

Revised October 2013

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).

The LRMUPP’s main objective is to determine the feasibility of how to successfully implement multi-use and multi-purpose projects. The LRMUPP is designed to address both consumptive and non-consumptive needs and integrate these needs into a single project. This project can lead as an example of how to face water challenges in the future through a multi-purpose approach. This study will specifically address storage, agriculture, municipal, energy, education, recreational and environmental 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.

The LRMUPP will address the needs of multiple water users and will bring collaboration and cooperation between private, government and public entities. Specifically this project aims to collaborate with: the current agricultural lessee through lease following options; CPW or SECWCD for integration and enhancement of the Voluntary Flow Management Program; CSU Extension for educational attributes of crop R&D and irrigation methods; USGS for the study of the underlying aquifer and potential for underground storage; CWRPDA for the use of a low-head low-impact hydro-power system; Greater Arkansas River Nature Association (GARNA) for implementation of wetlands; and, public education through development of a pilot project that can showcase the benefits of multi-use projects.

- 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.

Water Supply Reserve Account – Application Form

Revised October 2013

The LRMUPP will help implement projects and processes identified in the Arkansas Basin Implementation Plan. This pilot project will lead as a demonstration for the implementation of the larger TCPMUP that is featured in the ArkBIP. This pilot project will assist in the implementation of future multi-use projects that will have the ability to address the “gap” through a collaborative approach. Specifically, the LRMUPP will address the “gap” through new storage, lease fallowing and delivery system improvements.

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).

Funding for the LRMUPP feasibility study will aid in the implementation of the LRMUPP, as well as, the larger TCPMUP. Initial feasibility studies are complex and funding will ensure the successful study of all elements of this project. A feasibility study is needed to understand all of the working components involved in these multi-use projects. Without funding, these projects will be unable to move forward and/or without the extent to which they are intended.

- 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 District is dedicated to securing all possible funding from multiple sources for this study. We are applying for grants through CWRPDA and the Severance Tax Fund to ensure enough funding to properly study all elements of this project. A 46% match will be provided through District contributions, cost share partners & basin funds. The District will also be responsible for the total cost share matching amounts from the CWRPDA if they are unable to contribute.

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 helps sustain agriculture through the continued irrigation of agricultural lands and through the use of Alternative Transfer Methods instead of permanent buy-and-dry. This project also supports environmental needs through the creation of wetlands on re-charge ponds and protection of open space. The LRMUPP will support recreational needs through the enhancement of storage options for the Voluntary Flow Management Program.

- 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.

Water Supply Reserve Account – Application Form

Revised October 2013

This project can lead as an example of how to address future water needs with a collaborative approach. There is a high level of benefit from this project through the studies that will be conducted and can be transferable across the state. This project will act as a demonstration of how to integrate the needs of agricultural, municipal, recreational and environmental interests, while addressing the “gap” and providing new inventive ways to face our future water challenges. This project will also demonstrate how to implement multi-use projects more efficiently.

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.

Water Supply Reserve Account – Application Form

Revised October 2013

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.

This is a feasibility study and will not affect any sources of water. The study will include analysis on the Cameron Ditch in Chaffee County Colorado and the underlying alluvial aquifer.

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

Reservoir and Stream Gauge Telemetry Project

In the late-2000s, UAWCD built 22 high mountain telemetry water data collection platforms, to do so, it leveraged federal Bureau of Reclamation funds of ~\$285,000 and state funds of ~\$285,000. The project was twice selected as a nationwide success story. More than 500,000 down-basin residents are affected by available supplies of Upper Arkansas River water. Data is managed with Colorado Division of Water Resources software so records for administration/augmentation agree. These telemetry water data stations will be critical for the administration of proposed components associated with both the LRMUPP and the TCPMUP.

Underground Water Storage in the Buena Vista-Salida Basin

In the early 2010s, UAWCD implemented its ~\$400,000 US Geological Survey (USGS) water balance study to quantify both surface water and ground water and characterize the interaction between them in the Upper Arkansas River Basin. The final draft of the study titled *Groundwater and Surface-Water Interaction and Potential for Underground Water Storage in the Buena Vista-Salida Basin, Chaffee County, Colorado, 2011* was distributed in 2014. The report showed high potential for underground storage at both the TCPMUP and LRMUPP locations.

Lease Fallowing Tool

In 2012, the lease fallowing tool development sponsored by the UAWCD with participation and cost shares from of Southeastern Colorado Water Conservancy District, Board of Water Works Pueblo, Lower Arkansas Water Conservancy District, and Colorado Springs Utilities, and was begun with the awarding of grants from the ATM grant funds and WSRA State and Arkansas Basin funds. The four phased project total cost was \$355,715.00. Beta versions of the tool are being used on pilot lease-fallowing projects in the Lower Arkansas Valley. The tool development was completed in mid-2015 and presentations of the tool to the public will take place in early 2016 and extend throughout the State during 2016. The development of the lease fallowing (Administration/Accounting) tool was an important precursor to the continuum of multi-use water projects in the Arkansas Basin. This tool is anticipated to be implemented in both the LRMUPP and the TRCMUP.

Water Supply Reserve Account – Application Form

Revised October 2013

CoAgMet Stations

The Colorado Agricultural Meteorological Network (CoAgMet) is a network of automatic weather stations that provide internet access to weather and crop water use data. CoAgMet provides weather data in different formats, including daily or monthly summaries, hourly data, and graphs. Crop water use information from CoAgMet can be used in irrigation scheduling. The UAWCD sponsors 5 CoAgMet stations within the district boundaries. These stations will be extremely beneficial in the development of lease fallowing options and educational demonstrations for irrigation research and development at both project locations.

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.

Water Supply Reserve Account – Application Form

Revised October 2013

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

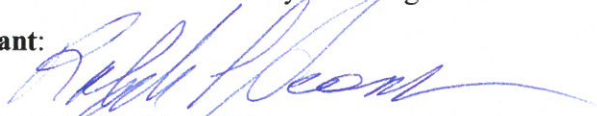
Payment will be made based on actual expenditures and invoicing by the applicant. Invoices from any other entity (i.e. subcontractors) cannot be processed by the State. The request for payment must include a description of the work accomplished by major task, and estimate of the percent completion for 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 will in turn be made widely available to Basin Roundtables and the general public and help promote the development of a common technical platform.

Water Supply Reserve Account – Application Form

Revised October 2013

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

Signature of Applicant:



Print Applicant's Name: Ralph "Terry" Scanga

Project Title: Upper Ark Multi-Use Projects Phase 1: Lake Ranch Multi-Use Pilot Project Feasibility Study

Date: 2/1/2016

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)
craig.godbout@state.co.us