



COLORADO WATER CONSERVATION BOARD



WATER SUPPLY RESERVE ACCOUNT APPLICATION FORM

Today's Date: 11/18/2016

Advancing K-12 Water Education in Western Colorado

Name of Water Activity/Project

John McConnell Math and Science Center

Name of Applicant

Colorado Basin (\$25k)

Amount from Statewide Account:

\$0

Amount from Basin Account(s):

\$25k

Total WSRA Funds Requested:

\$25k

Approving Basin Roundtable(s)

(If multiple basins specify amounts in parentheses.)

FEIN: 20-1641549

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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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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):	John McConnell Math and Science Center		
	Mailing address:	2660 Unaweep Avenue Grand Junction, CO 81503		
	FEIN #:			
	Primary Contact:	Jenn Moore	Position/Title:	Executive Director
	Email:	jmoore@mathandsciencecenter.org		
	Phone Numbers:	Cell: 315-322-1303	Office:	970-254-1626
	Alternate Contact:	Bambi Harmon	Position/Title:	Operations Manager
	Email:	bharmon@mathandsciencecenter.org		
	Phone Numbers:	Cell:	Office:	970-254-1626

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 John McConnell Math and Science Center has been inspiring western Colorado students for over 25 years, changing the lives of our youth, one science experiment at a time. The Math and Science Center is focused on providing opportunities to expose kids of all ages to STEM (science, technology, engineering and mathematics) curriculum. Through innovative partnerships with School District 51 and Colorado Mesa University (CMU), we are able to deliver science based curriculum to a variety of students across the western slope.

Today, the John McConnell Math & Science Center is a vibrant community resource working to provide enriched math and science experiences for youth living on Colorado’s Western Slope.

- The Math and Science Center currently serves over **15,000** students and guests each year
- In 2015, more than **5,800** school students, along with their teachers and parents, received individualized hands-on science demonstrations on organized field trips from public, private, and home schools located throughout western Colorado
- There are over **150** hands-on exhibits on display in the exhibit hall
- Over **40** year round vacation science camps are provided for pre-K through eighth grade
- The Math and Science Center employs **17** college students in a fellowship program who are trained to deliver hands-on educational programming in summer camps, after-school activities, and through outreach programs
- There are **57** dedicated volunteers who help guide guests through the exhibit hall, build exhibits, and assist with educational programs

In addition to the curriculum and programming provided at the Center, and unknown to many in the community, the Math and Science Center also designs and builds State standard based science resource kits, quarterly throughout the school year, for all 27 elementary school classrooms in District 51. The Math and Science Center provides 648 kits on an annual basis to District 51 classrooms.

4. If the Contracting Entity is different then the Applicant (Project Sponsor or Owner) please describe the Contracting Entity here.
5. Successful applicants will have to execute a contract with the CWCB prior to beginning work on the portion of the project funded by the WSRA grant. In order to expedite the contracting process the CWCB has established a standard contract with provisions the applicant must adhere to. A link to this standard contract is included in Appendix 3. Please review this contract and check the appropriate box.

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

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

6. The Tax Payer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect the applicant. 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.

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

Study

Implementation

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

New Storage Created (acre-feet)

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

Existing Storage Preserved or Enhanced (acre-feet)

Length of Stream Restored or Protected (linear feet)

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

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

Area of Restored or Preserved Habitat (acres)

Other -- Explain:

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

Latitude:

39

Longitude:

108

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 John McConnell Math and Science Center is in the leadership phase of the *Advancing Math and Science Education in Western Colorado* campaign, a \$5.5 million, five-year effort to support the construction of the Math and Science Center's new and expanded facility on the Colorado Mesa University campus.

The John McConnell Math and Science Center requests a gift of \$25,000 to its capital campaign. This would serve to construct the new science center including classrooms and a world class exhibit hall which will house a new **400 square foot interactive water exhibit**. The Colorado Basin Roundtable's investment in this project would allow the center to:

- House an even larger and ever-changing inventory of exhibits demonstrating the principles of math, life, earth and physical science as they relate to water.
- Offer additional classroom space for expanded programs of formal educational and enrichment activities for pre-K-12th grade students, their families and university students, which can be used for water education lectures, classes and camps.
- Provide additional school field trips from within and outside the Grand Valley for guided exploration of the interactive water exhibit.
- Expand informal hydrologic education including after-school programs, camps, community events, seminars and outreach programs.

The Math and Science Center is eager to establish a new facility but we will need everyone's support. In recognition of this gift, the John McConnell Math and Science Center would like to put the Basin Roundtable's name and the CWCB on the new hydrology exhibit in honor of the investment in the new facility. As the focal point of the new building, the hydrology exhibit would receive more than 15,000 visitors a year and will be an interactive water table with multiple hands on tanks that demonstrate principles of hydrology, river dynamics, water cycle, agriculture and municipal use, conservation, and water law for kids and parents of all ages to enjoy and learn.



Figure 1. Depiction of new building. The Math and Science Center will be on the right side of the building with the large glass windows and a main entrance facing 7th street. The MSC will be nested within the larger and new engineering building for Colorado Mesa University.

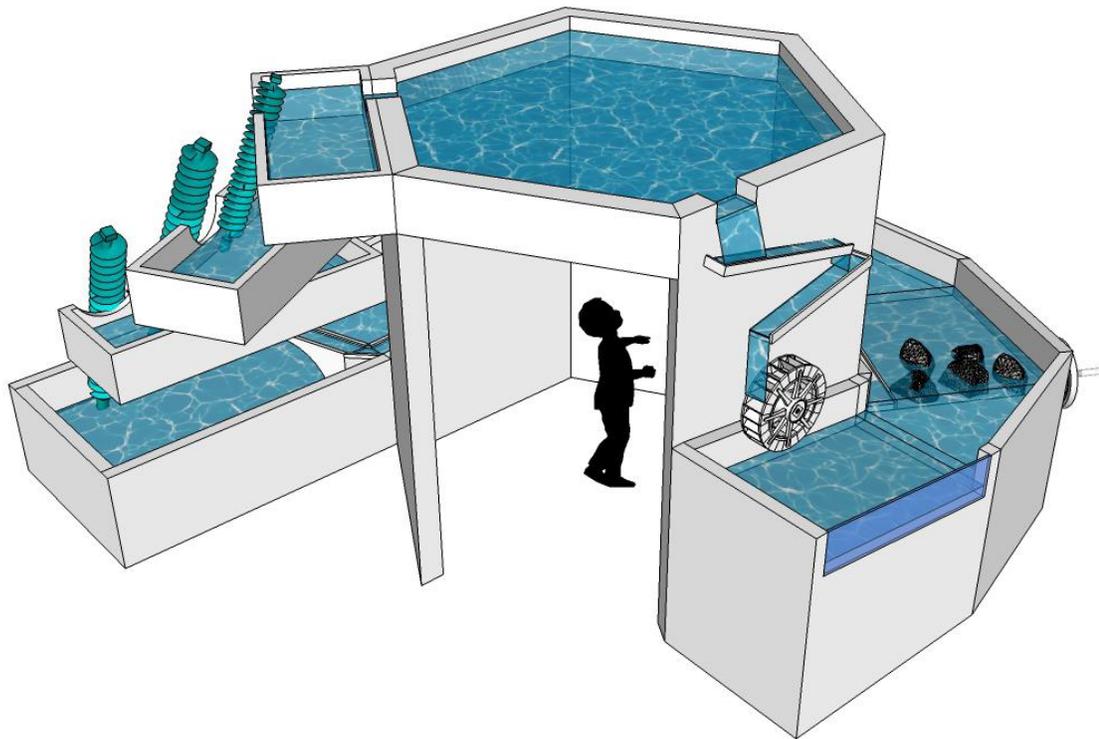


Figure 2. Depiction of the new water exhibit. Concepts of hydraulics, hydro power, river mechanics, Archimedes principal, trans-basin diversions, irrigation needs, municipal needs, conservation, endangered fish, and water law will all be presented.

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

No water rights are affected by this project.

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.

Letter will be submitted by the Roundtable Chair upon 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.

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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.

The Colorado Basin Roundtable’s Basin Implementation Plan and Education Action Plan include the statement that the Roundtable will,

...explore opportunities to connect with a broader segment of the population through new initiatives, including:

- *Enhancing K-12 water education opportunities, both inside and beyond the classroom.*

This project will directly respond to that objective, and will also meet broader educational goals as parents accompany students in exploring the water exhibit, and the classroom space is used for programs for multiple age groups. Signage in the new facility and near the water exhibit will point visitors to understanding what the BIP is, how the IBCC works, and what the EAP is.

- 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)

The table below demonstrates the degree to which this project far exceeds these matching requirements. Colorado Mesa University Foundation is acting as the fiscal agent for the John McConnell Math and Science Center for this project. They will provide a statement of funds committed (see attachment).

Expense	Funds committed*	Funds pending*	WSRF Colo Basin	WSRF other basins	WSRF Basinwide
Educational facility	\$1.6 million	\$4.1 million	\$25,000 request		

TOTAL

Of the \$1.6 million in funds committed, \$65k was from Ute Water, and \$100k was from Grand Valley Power.

2. For Applications that include a request for funds from the **Statewide Account**, describe how the water

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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activity/project meets all applicable **Evaluation Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines and repeated below.) Projects will be assessed on how well they meet the Evaluation Criteria. **Please attach additional pages as necessary.**

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

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

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

Tier 2: Facilitating Water Activity Implementation

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

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

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

Please attach additional pages as necessary.

This project meets criteria in each tier.

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

This project has already brought together funding and planning partners focused on both consumptive and non-consumptive interests, and will provide opportunities to educate people of all ages from across the western slope about the complexities of water issues.

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.*

The applicant has already obtained significant funding commitments to support the development of a new 400 square-foot water exhibit and the building to house it and other math and science exhibits, but none of this will come to fruition without obtaining the full amount required to construct the building. Funding from this account is an important piece of the overall funding strategy.

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

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.*

The matching funds far exceed the amount of funds requested, and this project will directly contribute to meeting Colorado Water Plan objectives by engaging thousands of western slope K-12 students and their parents in hands-on learning that demonstrates how water works in Colorado.

The hands-on water exhibit will be able to show how dams and diversions move water onto the land and into homes, demonstrate river dynamics and hydrology, and show the interactions between consumptive and non-consumptive uses of water. Increasing public understanding of these dynamics will help promote long-term stewardship and wise use of Colorado's water resources.

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.

Not applicable.

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

Not applicable.

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.

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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

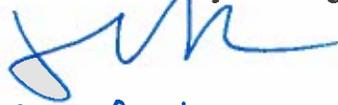
Payment will be made based on actual expenditures and invoicing by the applicant. Invoices from any other entity (i.e. subcontractors) cannot be processed by the State. The request for payment must include a description of the work accomplished by major task, and estimate of the percent completion for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

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

Signature of Applicant:



Print Applicant's Name:

Jennifer Moore

Project Title: Advancing K-12 Water Education in Western Colorado

Date: 3/6/17

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

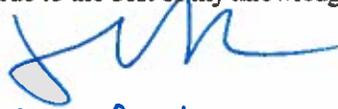
Craig Godbout – WSRA Application
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3/6/17

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