



**COLORADO**

**Colorado Water  
Conservation Board**

Department of Natural Resources

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**TO:** Colorado Water Conservation Board Members

**FROM:** Craig Godbout  
Program Manager - Water Supply Reserve Account Grant Program  
Water Supply Planning Section

**DATE:** January 13, 2016

**AGENDA ITEM:** 24 (a-e) WSRA Grant Requests

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### Staff Recommendation - Action Items: WSRA Grant Requests

A summary of staff's recommendation for each WSRA application is provided in the first component of the attached table. If applicable, the table also includes a breakdown of match amounts for applications that include a request for Statewide Account WSRA funds.

Favorable recommendations may be contingent on providing the CWCB with additional information, clarifications, or modifications in the scope of work. Please refer to the Water Activity Summary Sheets contained within this agenda item to find a summary of staff's review and any conditions associated with each recommendation.

### Background:

For this agenda item the Board is provided with a brief overview of applications to the Water Supply Reserve Account (WSRA). Attachments to this memo include:

- Summary spreadsheet detailing funding requests for the basin and statewide accounts;
- Summary spreadsheet displaying current WSRA Balance Summary of Fund Appropriations and Receipts by Fiscal Year, and Fund Distribution by Basin and Statewide Account.
- Water Activity Summary Sheets which provide an overview, discussion, issues/additional needs, and staff recommendation regarding funding, partial funding, or not funding the applications.

Staff's review of the applications involves the following steps:

- 1) Applications are reviewed for completeness based on the information requirements, which are primarily outlined in Part 2 of the Criteria and Guidelines (C&G).
- 2) Applications are reviewed to verify that the water activity meets the eligibility requirements in Section 39-29-108 (III) C.R.S. (C&G, Part 2) and the threshold criteria, which are based on the requirements of Section 39-29-108 (III) C.R.S., and two



sections of the Water for the 21st Century Act (House Bill 1177); Section 37-75-102 and Section 37-75-104(2)(c) (C&G, Part 3). Staff also verifies that the applicant was an eligible entity to receive funding (C&G, Part 2).

- 3) Staff then prepares the Water Activity Summary Sheet which documents the outcome of the review process and contains staff's recommendations.

**Water Supply Reserve Account Balance Summary and Project Status Report:**

To provide the Board updates on the status of specific Water Supply Reserve Account grant applications and projects, staff provides a status report in the CWCB Director's Report. The WSRA status report includes the following information:

- List of completed WSRA projects;
- List of WSRA projects in progress; and
- List of WSRA projects in the contracting and procurement process.



Water Supply Reserve Account Applications for Consideration at the CWCB January 2016 Board Meeting												
Agenda Item	Basin	Applicant	Name of Water Activity	Basin(s) Account Request	Statewide Account Requests	Total Request	Cash Match	In-Kind Match	Total Match	Total Project or Study Costs	Staff Recommendations	PM
24(a)	Colorado	Windy Gap Bypass Committee (Applicant) Trout Unlimited (Fiscal Agent)	Windy Gap Reservoir Modification Project (Bypass Project) - Engineering	\$30,000	\$0	\$30,000	\$355,000	\$0	\$355,000	\$385,000	Staff recommends approval of up to \$30,000 from the Colorado Basin Account	Brent Newman
24(b)	Colorado	Colorado Mesa University	Integrated Water Management Planning Framework	\$43,404	\$0	\$43,404	\$77,942	\$29,256	\$107,198	\$150,602	Staff recommends approval of up to \$43,404 from the Colorado Basin Account	Chris Sturm
24(c)	Metro	Metropolitan State University of Denver - One World One Water Center	Theatre Troupe Water Outreach Project	\$8,300	\$0	\$8,300	\$6,000	\$0	\$6,000	\$14,300	Staff recommends approval of up to \$8,300 from the Metro Account	Kate McIntire
24(d)	Southwest	San Miguel Watershed Coalition & TU	San Miguel River Stream Management Plan Pilot Project	\$32,138	\$0	\$32,138	\$81,413	\$15,000	\$96,413	\$128,551	Staff recommends approval of up to \$32,138 from the Southwest Basin Account	Chris Sturm
24(e)	Southwest	Town of Mancos	Mancos Raw Water Improvements	\$81,765	\$0	\$81,765	\$81,766	\$0	\$81,766	\$163,531	Staff recommends apptoval of up to \$81,765 from the Southwest Basin Account	Craig Godbout
				<b>\$195,607</b>	<b>\$0</b>	<b>\$195,607</b>						

<u>Basin</u>	<u>Basin Account Requests</u>	<u>Statewide Account Requests</u>	<u>Total Requests</u>	<u>Current Basin Account Balances</u>	<u>Remaining Basin Account Balances (if all requests approved)</u>	<u>Current Statewide Account Balance</u>	<u>Remaining Statewide Account Balance (if all requests approved)</u>
<u>Arkansas Basin</u>	\$0	\$0	\$0	\$118,766	\$118,766		
<u>Colorado Basin</u>	\$73,404	\$0	\$73,404	\$415,588	\$342,184		
<u>Gunnison Basin</u>	\$0	\$0	\$0	\$760,961	\$760,961		
<u>Metro Basin</u>	\$8,300	\$0	\$8,300	\$238,494	\$230,194		
<u>North Platte</u>	\$0	\$0	\$0	\$752,257	\$752,257	<b>\$1,898,512</b>	<b>\$1,898,512</b>
<u>Rio Grande</u>	\$0	\$0	\$0	\$318,013	\$318,013		
<u>Southwest</u>	\$113,903	\$0	\$113,903	\$782,849	\$668,946		

<u>South Platte</u>	\$0	\$0	\$0	\$352,213	\$352,213
<u>Yampa/White/Green</u>	\$0	\$0	\$0	\$1,030,785	\$1,030,785
<u>Water Supply Reserve Account</u>					
<u>Total Requests</u>	\$195,607	\$0	\$195,607	\$4,769,926	\$4,574,319

**COLORADO WATER CONSERVATION BOARD**  
**Water Supply Reserve Account - Balance Summary**  
**November 2015**

Updated 01/04/16

<b>Fund Appropriation and Receipts</b>				
<b>Fiscal Year</b>	<b>Legislative Appropriation</b>	<b>Funds Received</b>	<b>Statewide Account</b>	<b>Basin Account</b>
2006/2007	\$10,000,000	\$10,000,000	\$5,500,000	\$4,500,000
2007/2008	\$6,000,000	\$6,000,000	\$4,200,000	\$1,800,000
2008/2009	\$10,000,000	\$7,000,000	\$4,300,000	\$2,700,000
2009/2010	\$5,775,000	\$5,775,000	\$4,215,750	\$1,559,250
2010/2011	\$6,000,000	\$6,000,000	\$4,380,000	\$1,620,000
2011/2012	\$7,000,000	\$7,000,000	\$4,732,000	\$2,268,000
2012/2013	\$10,000,000	\$7,157,724	\$4,580,943	\$2,576,781
2013/2014	\$10,000,000	\$10,091,639	\$6,458,649	\$3,632,990
2014/2015	\$10,000,000	\$10,000,000	\$6,400,000	\$3,600,000
2015/2016	\$10,000,000	\$4,000,000	\$2,560,000	\$1,440,000
Interest	N/A	\$2,857,935	\$1,829,078	\$0
Prior Years Interest Adjustment			\$1,028,856	\$0
2014/2015 Interest	N/A	\$ 240,216	\$240,216	\$0
2015/2016 Interest	N/A	\$ 38,734	\$38,734	\$0
<b>TOTAL</b>	<b>\$74,775,000</b>	<b>\$76,161,247</b>	<b>\$50,464,226</b>	<b>\$25,697,021</b>

Interest diverted to SW per DNR reconciliation

Note: The WSRA is a Severance Tax "Tier II" program with 40% of funds distributed on July 1, 30% on January 1, and the final 30% on April 1.

In FY 2008/2009 the final 30% installment of \$3,000,000 was not received due to the State's budgetary shortfall.

*In January 2012 interest for the program from its inception to date was credited directly to the Statewide Account.*

*Interest from January 2012 on is regularly calculated by the Treasury and credited to the Statewide Account.*

<b>Fund Distribution</b>					
<b>Basin</b>	<b>Approved Basin Grants</b>	<b>Total Basin Funds</b>	<b>Basin Account Balance</b>	<b>Approved State Grants</b>	<b>Statewide Account Balance</b>
Arkansas	\$2,736,459	\$2,855,225	\$118,766	\$8,365,160	
Colorado	\$2,439,637	\$2,855,225	\$415,588	\$5,164,260	
Southwest *	\$2,072,376	\$2,855,225	\$782,849	\$6,757,109	
Gunnison *	\$2,094,264	\$2,855,225	\$760,961	\$3,812,791	
Metro	\$2,616,731	\$2,855,225	\$238,494	\$6,713,284	
North Platte	\$2,102,968	\$2,855,225	\$752,257	\$508,078	
Rio Grande	\$2,537,212	\$2,855,225	\$318,013	\$10,260,323	
South Platte *	\$2,503,012	\$2,855,225	\$352,213	\$6,372,646	
Yampa/White	\$1,824,440	\$2,855,225	\$1,030,785	\$612,063	
<b>TOTAL</b>	<b>\$20,927,099</b>	<b>\$25,697,021</b>	<b>\$4,769,922</b>	<b>\$48,565,714</b>	<b>\$1,898,512</b>
<b>TOTAL APPROVED GRANTS</b>					<b>\$69,492,813</b>

Note: Only includes grants approved by CWCB

\*See Comments - Figures have changes due to grantee's withdrawn funding

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

**Applicants:** Windy Gap Bypass Committee & Trout Unlimited

**Fiscal Agent:** Trout Unlimited

**Water Activity Name:** Windy Gap Reservoir Modification Project (Bypass Project)  
– Engineering

**Water Activity Purpose:** Multipurpose

**County:** Grand

**Drainage Basin:** Colorado

**Water Source:** Colorado River

**Amount Requested/Source of Funds:** \$30,000 Colorado Basin Account (total grant request)

**Matching Funds:** Applicant Match: \$355,500 (cash & in kind) =92.2% of the total project cost of \$385,500  
(refer to *Funding Summary/Matching Funds* section below)

<b>Staff Recommendation:</b>
Staff recommends approval of up to \$30,000 from the Colorado Basin Account to help fund the project titled: Windy Gap Reservoir Modification Project (Bypass Project) – Engineering.

**Water Activity Summary:** WSRA funds, if approved, will be expended to fund the project titled Windy Gap Reservoir Modification Project (Bypass Project) – Engineering. Windy Gap Reservoir is located along the Colorado River approximately 4 miles west of the town of Granby, in Grand County, Colorado. Aquatic habitat of the Colorado River in the vicinity of Windy Gap is suboptimal. The Gold Medal trout fishery appears to be in decline over recent years and fish passage is blocked by the dam and impeded in places by shallow riffles. Water temperatures commonly exceed standards set by the Colorado Department of Public Health and Environment during portions of the summer, and recent studies suggest key bio-indicator species are nearly extirpated for many miles below the reservoir.

The Windy Gap Bypass Committee is a stakeholder group whose goal is to ensure the construction of the Windy Gap Reservoir Bypass, a project designed to re-connect the Colorado River and its habitat by restoring approximately one mile of the river currently inundated by the Windy Gap Dam and Reservoir by constructing a bypass channel around the reservoir. Members of the Bypass Committee include Northern Colorado Water Conservancy District & Municipal Subdistrict, Colorado Parks and Wildlife, Grand County, Colorado River Water Conservation District, Middle Park Water Conservancy District, Upper Colorado River Alliance, and Trout Unlimited.

The primary objective of the Project is to facilitate the recovery of aquatic species by improving existing conditions and physical processes impacted by Windy Gap. Specifically, the primary Project objectives are to:

- Improve sediment transport around or through the reservoir,
- Reduce stream bed armoring downstream of the reservoir,
- Moderate elevated stream temperatures,
- Provide connectivity for aquatic life and fish passage, and
- Enhance aquatic habitat.

The next step in the Project is to conduct field work, preliminary engineering of the major design components, and initiate permitting. Work will include:

- Wetlands delineation, Endangered Species Act assessment, and historic/cultural assessment needed for 404 permit
- Topographic and existing conditions mapping
- Channel design and hydraulic assessments
- Preliminary diversion structure plans
- Refine opinion of probable cost

**Discussion:** The Colorado Basin Roundtable identified this project as a priority project for the Grand County region in the final Basin Implementation Plan (BIP).

Additionally, this project meets several critical actions as identified in Chapter 10 of Colorado's Water Plan:

- **A: Supply – Demand Gap**
  - 1. Support and assist the basin roundtables in moving forward priority municipal, industrial, environmental, and agricultural projects and methods identified in their BIPs through technical, financial and facilitation support when requested by a project proponent and the pertinent BRT.
- **E: Storage**
  - 2. Prioritize grants and loans to support the implementation of BIP-identified multipurpose projects and methods, taking into consideration locally identified geographic and seasonal gaps.
- **F: Watershed Health, Environment, and Recreation**
  - 7: Prioritize and implement projects identified in master planning efforts.

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

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

**Tier 1-3 Evaluation Criteria:** n/a

**Funding Summary/Matching Funds:**

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
Committee members	\$355,500	n/a	\$355,500
WSRA Colorado Basin Account	\$30,000	n/a	\$30,000
<b>Total</b>	<b>\$385,500</b>	<b>n/a</b>	<b>\$385,500</b>

**CWCB Project Manager:** Brent Newman

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.



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

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

**Water Activity Name:** Integrated Water Management Planning Framework

**Water Activity Purpose:** Multipurpose

**County:** throughout Colorado Basin

**Drainage Basin:** Colorado

**Water Source:** Colorado River and tributaries

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

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

<b>Staff Recommendation:</b>
Staff recommends approval of up to \$43,404 from the Colorado Basin Account to help fund the project titled: Integrated Water Management Planning Framework.

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

This project will include the following tasks:

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

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

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

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

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

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

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

**Tier 1-3 Evaluation Criteria:** n/a

**Funding Summary/Matching Funds:**

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

<sup>(1)</sup> In-kind costs broken down in Exhibit A

**CWCB Project Manager:** Brent Newman/Chris Sturm

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

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

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

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

**Water Supply Reserve Account – Grant and Loan Program**  
**Water Activity Summary Sheet**  
**January 25-26, 2016**  
**Agenda Item 24(c)**

**Applicant & Fiscal Agent:** Metropolitan State University of Denver – One World One Water Center for Urban Water Education and Stewardship

**Water Activity Name:** Theatre Troupe Water Outreach Project

**Water Activity Purpose:** Educational

**County:** Front Range

**Drainage Basin:** Metro

**Water Source:** N/A

**Amount Requested/Source of Funds:** \$8,300 Metro Basin Account (total grant request)

**Matching Funds:** Applicant Match: \$6,000 (cash & in kind) = 41.9% of the total project cost of \$14,300  
(refer to *Funding Summary/Matching Funds* section below)

<b>Staff Recommendation:</b>
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Staff recommends approval of up to \$8,300 from the Metro Basin Account to help fund the project titled: MSU Denver Theatre Troupe Water Outreach Project.
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**Water Activity Summary:** This project is a collaboration between the MSU One World One Water Center, the City of Boulder, Aurora Water, and Denver Water. In 2015, Denver Water, the City of Boulder, and Aurora Water collaborated with the One World One Water Center, and the MSU Denver Theater Department, to create a first-of-its-kind theater performance on water conservation and water protection for fifth & sixth-graders in their service areas. The response was phenomenal, and over 3,000 students, and their teachers and parents, attended the performances at several schools and the three utility water festivals in Denver, Boulder, and Aurora. This proposal would allow the troupe to perform again in 2016 for fifth and sixth graders at water festivals in Denver, Boulder, and Aurora. The applicant anticipates connecting with over 4,000 students in 2016, and could use this program as a pilot project for other similar collaborations across the state.

Section 9.5 of Colorado’s Water Plan addresses Outreach, Education and Public Engagement, specifically noting that the Plan “provides technical and financial assistance for high quality, balanced, and grassroots water education and outreach efforts that inform Coloradans about the issues so they engage in determining Colorado’s water future.” The Plan recognizes the extensive work that has occurred to help educate and engage local stakeholders and the ongoing water education activities that advance the plan’s goals.

Section 9.5 of Colorado’s Water Plan charts a path to expand this work in the future, specifically for 2015 and beyond. The Plan proposes the creation of a new outreach, education and public engagement grant fund; this current proposal would be part of the first step towards the sustained educational outreach, education and engagement activities that Colorado’s Water Plan envisions and serve as a precursor to those educational activities in 2016 and beyond, funded by CWCB. This

applicant recognizes the many current effective efforts that are on-going for youth education in this State; this application is focused on university student participation.

The Metro and South Platte Basin Implementation Plan includes a section on “Suggested Activities: 2015 and Beyond” which envisions an educational outreach plan that “maximizes existing opportunities and avoids duplication of efforts.” Key elements identified in the Metro and SP BIP include a focus on developing messages, leveraging existing basin resources, complementing existing state efforts, and establishing success metrics, while expanding public awareness and support. This proposal is intended to be one of the first accomplishments of these key elements while serving as a bridge between the WSRA-funded education efforts and the newly envisioned CWCB-funded education efforts articulated in Colorado’s Water Plan; it builds on existing university water education programs in the State and looks to these students as future water diplomats of the aspirations articulated in Colorado’s Water Plan.

The Colorado State Science Standards for 6th graders specifically requires that students learn about their water supply, the importance of water, and local water issues. This is an excellent program to meet those requirements. We would like to continue this project into the future, but need some financial support.

**Discussion:** No additional discussion is required.

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

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

**Tier 1-3 Evaluation Criteria:** n/a

**Funding Summary/Matching Funds:**

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
WSRA Metro Account	\$8,300	n/a	\$8,300
Matching Funds (refer to application)	\$6,000	\$0	\$6,000
<b>Total</b>	<b>\$14,300</b>	<b>\$0</b>	<b>\$14,300</b>

**CWCB Project Manager:** Kate McIntire

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.

**Water Supply Reserve Account – Grant and Loan Program**  
**Water Activity Summary Sheet**  
**January 25-26, 2016**  
**Agenda Item 24(d)**

**Applicants:** San Miguel Watershed Coalition & Trout Unlimited  
**Fiscal Agent:** Trout Unlimited  
**Water Activity Name:** San Miguel River Stream Management Plan, Pilot Project  
**Water Activity Purpose:** Nonconsumptive  
**County:** San Miguel  
**Drainage Basin:** San Miguel River Basin  
**Water Source:** San Miguel River  
**Amount Requested/Source of Funds:** \$32,138 Southwest Basin Account (total grant request)  
**Matching Funds:** Applicant Match: \$96,413 (cash & in-kind) = 75% of the total project cost of \$128,551  
(refer to *Funding Summary/Matching Funds* section below)

<b>Staff Recommendation:</b>
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Staff recommends approval of up to \$32,138 from the Southwest Basin Account to help fund the project titled: San Miguel River Stream Management Plan, Pilot Project.
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**Water Activity Summary:** While developing its Basin Implementation Plan (BIP), the Southwest Basin Roundtable (SWBRT) identified a significant gap in information necessary to understand environmental and recreational (E&R) water needs. Understanding E&R water needs is particularly challenging given the size of the area and diversity of the nine basins that make up the SWBRT's area of interest. Given these challenges, the SWBRT voted to support the concept of a pilot project to develop E&R water needs information in one of the basins with the thought that the approach could be replicated, with adjustments to meet local needs, in other basins. The San Miguel basin was proposed for the pilot project. The San Miguel Watershed Coalition (SMWC) is interested in developing an understanding of E&R water needs within the San Miguel River Basin and a stream management plan to help guide cooperative water management efforts. This work should provide a model for conducting cost---effective watershed ---scale evaluations of E&R needs and implementing stream management planning efforts in other areas of the Southwest Basin.

The San Miguel River Pilot Project will assess environmental and recreational water needs within the San Miguel River basin and identify potential approaches to meet identified gaps, if any. The project consists of the following steps:

1. Review E&R attributes within the San Miguel River basin identified in the BIP for completeness;
2. Identify potential water gaps to support those attributes;

3. Assist the project sponsors and other stakeholders in defining desired outcomes for E&R uses within the project area and to identify projects to achieve the desired outcomes in a cooperative setting
4. Evaluate effectiveness of implementation of said projects

**Discussion:** The proposed project aligns well with several Goals and Measurable Outcomes in the Southwest Basin Implementation Plan, such as “Meet Environmental Needs” Goal E2: *Protect, maintain, monitor and improve the condition and natural function of streams, lakes, wetlands, and riparian areas to promote self-sustaining fisheries, and to support native species and functional habitat in the long term, and adapt to changing conditions* (Section 1 - Basin Goals and Measurable Outcomes, Table 1, page 16). This proposal assists the Southwest Basin achieve these Goals and Measurable Outcomes by implementing a San Miguel-Basin IPP – *San Miguel Watershed Coalition*, ID No. 25-SB, Appendix A, page 18 of 18.

It is CWCB staff’s opinion that this proposal advances the Goals and Measurable Outcomes of Colorado’s Water Plan by reflecting the intent of the Programmatic *Critical Watershed, Environment, and Recreation Actions* #3 (Develop stream management plans for priority streams (identified in a BIP or otherwise) as having environmental or recreational value. As part of this work, the CWCB will provide guidelines and templates for developing stream management plans, and will conduct ongoing analyses through SWSI.), as exhibited in Chapter 10: *Critical Action Plan*, Section 10.3: Critical Goals and Actions, F. Watershed Health, Environment, and Recreation, page 10-12.

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

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

**Tier 1-3 Evaluation Criteria:** n/a

**Funding Summary/Matching Funds:**

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
CWCB Watershed Restoration Grant	\$64,275	\$0	\$64,275
Southwestern Water Conservation District	\$14,138	\$0	\$14,138
Local Governments & Foundation	\$3,000	\$0	\$3,000
San Miguel Watershed Coalition/TU/American Whitewater	\$0	\$15,000	\$15,000
Subtotal Match	\$81,413	\$15,000	\$96,413
Southwest Basin WSRA Account	\$32,128	n/a	\$32,128
<b>Total</b>	<b>\$113,541</b>	<b>\$15,000</b>	<b>\$128,541</b>

**CWCB Project Manager:** Chris Sturm

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



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

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

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

**Water Supply Reserve Account – Grant and Loan Program**  
**Water Activity Summary Sheet**  
**January 25-26, 2016**  
**Agenda Item 24(e)**

**Applicant & Fiscal Agent:** Town of Mancos  
**Water Activity Name:** Mancos Raw Water System Improvements  
**Water Activity Purpose:** M&I  
**County:** Montezuma  
**Drainage Basin:** Southwest/Mancos River Basin  
**Water Source:** West Fork of the Mancos River & Jackson Gulch Reservoir  
**Amount Requested/Source of Funds:** \$81,765 Southwest Basin Account (total grant request)  
**Matching Funds:** Applicant Match: \$81,766 (cash) = 50% of the total project cost of \$163,531  
(refer to *Funding Summary/Matching Funds* section below)

<b>Staff Recommendation:</b>
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Staff recommends approval of up to \$81,765 from the Southwest Basin Account to help fund the project titled: Mancos Raw Water System Improvements.
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**Water Activity Summary:** WSRA funds, if approved, will be expended to fund replacement of the existing Raw Water Intake System for the Town of Mancos. The current system has very limited means to measure and control water flow from the river and the Water Treatment Plant Operator has to continually monitor the system to ensure that water is flowing to the WTP. Because the flow cannot be accurately metered, water at multiple locations ends up overflowing onto the ground. Additionally, the pipes conveying water to and from the ponds are subject to debris blockage causing more water to be wasted. When the pipe plugs up there is concern with interruption of flow to the treatment plant. More specifically, components of the Raw Water Intake System replacement will consist of:

1. Replace water lines between Pond 1 and Pond 2, and Pond 2 to the Parshall Flume and Control Box;
2. Provide decanter devices at the outlet of Pond 1 and Pond 2 to prevent debris from plugging pipes and causing ponds to overflow;
3. Provide a baffle (curtain) across each of the ponds to reduce short circuiting and improve settling of suspended solids;
4. Provide new Parshall Flume and Control Box and relocate them closer to the raw water pond to allow the Operator to dial in proper flow rates at the river head gate using the new 3" Parshall Flume;
5. Relocation of the Parshall Flume and Control Box further upstream will also provide additional pressure head of the raw water entering the water treatment plant. This will help treatment plant operations;
6. Provide return pipes back to the river to keep water off the ground. Return pipes will be from Pond 1, Pond 2, the control box, and the raw water manhole. These return pipes will provide

the operator with assurance that any excess water flowing through the raw water intake system will quickly be routed back into the River without any of the water spilling onto the ground.

The objectives of these improvements are as follows:

1. Provide accurate metering and control of water entering the pond system;
2. Eliminating extensive water spilling onto the ground and providing return pipes back to the river;
3. Provide better quality raw water going to the water treatment plant by reducing the short circuiting that is happening in the ponds.

**Discussion:** The proposed project aligns well with several Goals and Measurable Outcomes in the Southwest Basin Implementation Plan, such as “Meet Municipal and Industrial Water Needs” Goal C1: *Pursue a high success rate for identified specific and unique IPPs to meet the municipal gap*; and Goal C2: *Provide safe drinking water to Southwest Colorado’s citizens and visitors* (Section 1 - Basin Goals and Measurable Outcomes, Table 1, page 14), while also supporting the achievement of Measurable Outcomes #1: *Complete 40\* IPPs aimed at meeting municipal water needs*; #2: *Consistently meet 100% of residential, commercial and industrial water system demands identified in SWSI 2010 in each sub-basin, while also encouraging education and conservation to reduce demand*; and #3: *Implement at least 1\* IPP that protects or enhances the ability of public water supply systems to access and deliver safe drinking water that meets all health-based standards* (Section 1 - Basin Goals and Measurable Outcomes, Table 1, page 14). This proposal assists the Southwest Basin achieve these Goals and Measurable Outcomes by implementing a Mancos River Basin IPP – *Town of Mancos*, ID No. 14-M, Appendix A, page 13 of 18.

It is CWCB staff’s opinion that this proposal advances the Goals and Measurable Outcomes of Colorado’s Water Plan by reflecting the intent of the Programmatic *Critical Actions to Meet Water Gaps* #1 (Support and assist the basin roundtables in moving forward priority municipal, industrial, environmental, and agricultural projects and methods identified in their BIPs through technical, financial and facilitation support when requested by a project proponent and the pertinent BRT.), as exhibited in Chapter 10: *Critical Action Plan*, Section 10.3, A. Supply-Demand Gap, page 10-9.

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

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

**Tier 1-3 Evaluation Criteria:** n/a

**Funding Summary/Matching Funds:**

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
Southwest RT WSRA Basin Account	\$81,765	n/a	\$81,765
Town of Mancos	\$81,766	\$0	\$81,766
<b>Total</b>	<b>\$163,531</b>	<b>\$0</b>	<b>\$163,531</b>

**CWCB Project Manager:** Craig Godbout

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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.

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