



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 Fund Grant Program
Water Supply Planning Section

DATE: August 30, 2017

AGENDA ITEM: 22 (a-m): WSRF Grant Requests

Staff Recommendation – Action Items: WSRF Grant Requests

A summary of staff's recommendation for each WSRF 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 WSRF 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 Fund (WSRF). Attachments to this memo include:

- Summary spreadsheet detailing funding requests for the basin and statewide accounts;
- Summary spreadsheet displaying current WSRF 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 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 Fund Balance Summary and Project Status Report:

To provide the Board updates on the status of specific Water Supply Reserve Fund grant applications and projects, staff can provide a status report of the following information upon request:

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



COLORADO WATER CONSERVATION BOARD
Water Supply Reserve Fund - Balance Summary
September 2017

9/5/2017

Fund Appropriation and Receipts				
Fiscal Year	Legislative Appropriation	Funds Received	Statewide Account	Basin Account
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	\$9,103,590	\$5,826,298	\$3,277,292
2016/2017	\$0	\$0	\$0	\$0
2017/2018	\$10,000,000	\$1,455,776	\$931,697	\$524,079
2017/2018 CF	\$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	\$ 219,458	\$219,458	\$0
2016/2017 Interest	N/A	\$ 223,936	\$223,936	\$0
2017/2018 Interest		\$ 20,199	\$20,199	\$0
TOTAL	\$84,775,000	\$87,125,273	\$57,626,880	\$29,498,392

PENDING

Note: The WSRF 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.

Fund Distribution					
Basin	Approved Basin Grants	Total Basin Funds	Basin Account Balance	Approved State Grants	Statewide Account Balance
Arkansas	\$3,049,932	\$3,277,599	\$227,667	\$9,421,051	
Colorado	\$2,801,079	\$3,277,599	\$476,520	\$6,283,985	
Southwest *	\$2,890,982	\$3,277,599	\$386,617	\$7,259,911	
Gunnison *	\$2,665,514	\$3,277,599	\$612,085	\$4,619,681	
Metro	\$2,760,031	\$3,277,599	\$517,568	\$7,501,732	
North Platte	\$2,134,668	\$3,277,599	\$1,142,931	\$540,942	
Rio Grande	\$2,915,712	\$3,277,599	\$361,887	\$10,385,323	
South Platte *	\$2,746,595	\$3,277,599	\$531,004	\$7,184,112	
Yampa/White	\$2,335,419	\$3,277,599	\$942,180	\$814,635	
TOTAL	\$24,299,932	\$29,498,392	\$5,198,460	\$54,011,372	\$3,615,508
TOTAL APPROVED GRANTS					\$78,311,304

Note: Only includes grants approved by CWCB

Water Supply Reserve Fund Applications for Consideration at the September 2017 CWCB Board Meeting

Agenda Item	Basin	Applicant	Name of Water Activity	Basin(s) Account Request	Statewide Account Requests	Total Request	Non-WSRF Cash Match	Non-WSRF In- Kind Match	Non-WSRF Total Match	Total Match (Basin & Non- WSRF)	Total Project Costs	Staff Recommendations	PM
22(a)	Gunnison	John McConnell Math and Science Center	Advancing K-12 Water Education in Western Colorado	\$25,000	\$100,000	\$150,000	\$58,000	\$0	\$58,000	\$108,000	\$233,000	Staff recommends approval of up to \$25,000 from Arkansas Basin Acct, & up to \$77,750 from Statewide Acct	Megan Holcomb
	Southwest			\$10,000									
	Y/W/G			\$15,000									
22(b)	Arkansas	Beaver Park Water	Upper Canal Lining Removal & Replacement	\$40,250	\$77,750	\$118,000	\$35,000	\$2,500	\$37,500	\$77,750	\$155,500	Staff recommends approval of up to \$40,250 from Arkansas Basin Account, & up to \$77,750 from Statewide Account.	Ben Wade
22(c)	Arkansas	Coalitions & Collaboratives, Inc. for ARWC	Arkansas Basin Watershed Health Initiative	\$23,000	\$230,000	\$253,000	\$400,000	\$0	\$400,000	\$381,000	\$656,000	Staff recommends approval of up to \$23,000 from the Arkansas Basin Account, and up to \$230,000 from the Statewide Account.	Ben Wade
22(d)	Arkansas	Huerfano County Water Conservancy District	Arkansas BIP Coordinator (Year 3)	\$50,000	\$25,000	\$75,000	\$0	\$0	\$0	\$50,000	\$75,000	Staff recommends approval of up to \$50,000 from the Arkansas Basin Account, and up to \$25,000 from the Statewide Account.	Ben Wade
22(e)	Arkansas	Purgatoire Watershed Partnership	Trinidad River Walk Improvement	\$14,300	\$0	\$14,300	\$0	\$10,700	\$10,700	\$25,000	\$25,000	Staff recommends conditional approval of up to \$14,300 from the Colorado Basin Account.	Ben Wade
22(f)	Colorado	Missouri Heights - Mountain Meadow Irrigation Company	Missouri Heights Mountain Meadow Ditch Lining Phase C	\$40,000	\$0	\$40,000	\$257,980	\$0	\$257,980	\$297,980	\$297,980	Staff recommends approval of up to \$40,000 from the Colorado Basin Account.	Megan Holcomb
22(g)	Gunnison	Arch Ditch Association	Arch Ditch Headgate Improvement Project	\$20,096	\$0	\$20,096	\$6,699	\$0	\$6,699	\$6,699	\$26,795	Staff recommends approval of up to \$20,096 from the Gunnison Basin Account.	Craig Godbout
22(h)	Gunnison	Stewart Ditch and Reservoir Company	Upper Stewart Ditch Pipeline Project	\$20,500	\$205,000	\$225,500	\$2,599,924	\$177,600	\$2,777,524	\$2,798,024	\$3,003,024	Staff recommends conditional approval of up to \$20,500 from the Gunnison Basin Account, and up to \$205,000 from the Statewide Account.	Craig Godbout
22(i)	North Platte	Lucky Penny Ranches LLC	Aqua Fria Reservoir Rehabilitation	\$75,000	\$0	\$75,000	\$15,000	\$10,000	\$25,000	\$100,000	\$100,000	Staff recommends approval of up to \$75,000 from the North Platte Basin Account.	Craig Godbout
22(j)	Rio Grande	Colorado Rio Grande Restoration Foundation	Five Ditches: Rio Grande Diversion and Headgate Improvement Project	\$98,000	\$882,000	\$980,000	\$2,205,500	\$18,000	\$2,223,500	\$2,321,500	\$3,105,500	Staff recommends approval of up to \$98,000 from the Rio Grande Basin Account, and up to \$882,000 from the Statewide Account.	Jonathan Hernandez
22(k)	South Platte	Poudre Learning Center Foundation	Poudre Learning Center Water Education and Outreach	\$9,979	\$40,000	\$49,979	\$167,500	\$53,500	\$221,000	\$230,979	\$270,979	Staff recommends approval of up to \$9,979 from the South Platte Basin Account, and up to \$40,000 from the Statewide Account..	Craig Godbout
22(l)	South Platte	Open Water Foundation	South Platte Basin Roundtable Data Platform	\$20,000	\$60,000	\$100,000	\$46,386	\$0	\$46,386	\$86,386	\$146,386	Staff recommends approval of up to \$20,000 from the South Platte Basin Account, up to \$20,000 from the Metro Account, and up to \$40,000 from the Statewide Account..	Craig Godbout
	Metro			\$20,000									
22(m)	South Platte	Wildland Restoration Volunteers	Community Sub-basin Post-Flood Source Water Protection	\$25,000	\$25,000	\$50,000	\$179,940	\$226,970	\$406,910	\$431,910	\$456,910	Staff recommends approval of up to \$25,000 from the South Platte Basin Account, and up to \$25,000 from the Statewide Account..	Craig Godbout
Sub-Total Requests				\$506,125	\$1,644,750	\$2,150,875							

Agenda Item	Basin	Applicant	Name of Water Activity	Basin(s) Account Request	Statewide Account Requests	Total Request	Non-WSRF Cash Match	Non-WSRF In- Kind Match	Non-WSRF Total Match	Total Match (Basin & Non- WSRF)	Total Project Costs	Staff Recommendations	PM
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Loan/Grant Combos

14(a)	Gunnison	Fruitland Irrigation Company	Fruitland Irrigation Renovation Project	\$150,000	\$750,000	\$900,000	\$9,597,100	\$40,000	\$9,637,100	\$9,787,100	\$10,537,100	Staff recommends approval of up to \$150,000 from the Gunnison Basin Account, and up to \$721,900 from the Statewide Account.	Jonathan Hernandez
14(b)	Arkansas	Fort Lyon Canal Company	Adobe Creek Dam Rehabilitation	\$100,000	\$1,000,000	\$1,100,000	\$8,900,000	\$0	\$8,900,000	\$8,900,000	\$9,200,000	Staff recommends approval of up to \$100,000 from the Arkansas Basin Account, and up to \$971,900 from the Statewide Account.	Anna Mauss
Sub-Total Requests				\$250,000	\$1,750,000	\$2,000,000							
Total Requests				\$756,125	\$3,394,750	\$4,150,875							

<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>	\$227,550	\$1,332,750	\$1,560,300	\$227,667	\$117		
<u>Colorado Basin</u>	\$40,000	\$0	\$40,000	\$476,520	\$436,520		
<u>Gunnison Basin</u>	\$215,596	\$988,333	\$1,203,929	\$612,085	\$396,489		
<u>Metro Basin</u>	\$20,000	\$0	\$20,000	\$517,568	\$497,568		
<u>North Platte</u>	\$75,000	\$0	\$75,000	\$1,142,931	\$1,067,931	\$3,615,508	\$220,758
<u>Rio Grande</u>	\$98,000	\$882,000	\$980,000	\$361,887	\$263,887		
<u>Southwest</u>	\$10,000	\$33,333	\$43,333	\$386,617	\$376,617		
<u>South Platte</u>	\$54,979	\$125,000	\$179,979	\$531,004	\$476,025		
<u>Yampa/White/Green</u>	\$15,000	\$33,333	\$48,333	\$942,180	\$927,180		
<u>Water Supply Reserve Account</u>							
<u>Total Requests</u>	<u>\$756,125</u>	<u>\$3,394,750</u>	<u>\$4,150,875</u>	<u>\$5,198,459</u>	<u>\$4,442,334</u>		

Water Supply Reserve Fund – Grant and Loan Program
Water Activity Summary Sheet
September 19-21, 2017
Agenda Item 22(a)

Applicant & Grantee: John McConnell Math and Science Center

Water Activity Name: Advancing K-12 Water Education in Western Colorado

Water Activity Purpose: Education Implementation (Water Exhibit)

County: Mesa

Drainage Basin: Colorado

Water Source: N/A

Amount Requested: \$25,000 Gunnison Basin Account
\$15,000 Yampa Basin Account
\$10,000 Southwest Basin Account
\$100,000 Statewide Account *
\$150,000 Total Grant Request

Matching Funds: Basin Account Match (\$75,000) = 75% of Statewide Account request (meets 10% min);
Applicant & 3rd Party Match (\$58,000) = 58% of Statewide Account request (meets 10% min);
Total Match (Basin & Applicant/3rd Party Match of \$133,000) = 133% of Statewide request (meets 50% min)
(refer to *Funding Summary/Matching Funds* section)

*NOTE: The applicant decided to postpone a statewide WSRF request of \$100K at the March 2017 Board meeting due to a Statewide Account shortfall. The Colorado Roundtable Chair's recommendation letter date of February 1st can be attributed to this change.

Staff Recommendation:
Staff recommends approval of up to \$25,000 from the Gunnison Basin, \$15,000 from the Yampa Basin, and \$10,000 from the Southwest Basin Accounts, and up to \$100,000 from the Statewide Account, to help fund the project titled: Advancing K-12 Water Education in Western Colorado.

Water Activity Summary: WSRF grant funds, if approved, will contribute to the capital campaign of the John McConnell Math and Science Center's new and expanded facility on the Colorado Mesa University campus. The new center will include classrooms and a world class exhibit hall, including a permanent 400 ft² interactive water exhibit. In recognition of this gift, the Center would like to put each contributing Roundtable and the CWCB's name on the hydrology exhibit in honor of the investment in the new facility. As the focal point of the building, the interactive water table with multiple hands-on tanks would receive more than 15,000 visitors a year and 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. The CWCB's investment in this project would allow the Center to house other exhibits demonstrating principles of math, life, earth and physical science as they relate to water; offer classroom space; provide additional school field trips from

within and outside the Grand Valley for guided exploration; and expand hydrologic education and outreach including after-school programs, camps, community events, and seminars.

Discussion: The CWCB, supported by the Colorado Basin Roundtable, previously awarded this project \$25k in Colorado Basin funds (March 2017). The McConnell Center has now traveled to and received support from all four west slope roundtables. The varying WSRF amounts correspond to each basin's proximity to, and thus expected utilization of, the new Math and Science Center. If all basin and statewide asks are supported, the CWCB will have contributed \$175,000 in WSRF grants toward a \$5.5 million statewide water education project.

This project directly responds to Colorado's Water Plan objectives as identified in *Chapter 10.3.H: Education, Outreach, and Innovation* by creatively engaging Coloradans in issues surrounding the state's water future. Signage in the new facility, sponsored by WSRF grants, will point visitors to understanding components of and the connections between Colorado's Water Plan (CWP), the IBCC, and west slope BIPs. This project will directly connect thousands of western slope K-12 students and their parents and teachers 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.

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

Eligibility Requirements: The application meets requirements of the three subsections of the Eligibility Requirements: General Eligibility, Entity Eligibility, and Water Activity Eligibility.

Funding Match Requirements: This application meets the Basin Account Matching requirements.

Evaluation Criteria: This activity has undergone review and evaluation and staff has determined that it satisfies the Evaluation Criteria. Please refer to Basin Roundtable Chair's Recommendation Letter and the WSRF Grant Application for applicant's detailed response.

Funding Summary / Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-Kind</u>	<u>Total</u>
Ute Water and Clifton Water	\$58,000	\$0	\$58,000
WSRF Colorado Basin Account (Awarded March 2017)	\$25,000		\$25,000
WSRF Gunnison Basin Account	\$25,000		\$25,000
WSRF Yampa Basin Account	\$15,000		\$15,000
WSRF Southwest Basin Account	\$10,000		\$10,000
Sub-total	\$133,000		\$133,000
WSRF Statewide Account	\$100,000		\$100,000
Total Project Costs	\$233,000	\$0	\$233,000

CWCB Project Manager: Megan Holcomb

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
September 19-21, 2017
Agenda Item 22(b)

Applicant: Beaver Park Water Incorporated

Water Activity Name: Upper Canal Lining Removal and Replacement

Water Activity Purpose: Agricultural, Municipal/Industrial, Non-consumptive (Recreational)

County: Fremont

Drainage Basin: Arkansas

Water Source: Beaver Creek, Brush Hollow Creek and Brush Hollow Reservoir

Amount Requested/Source of Funds:

\$40,250	Arkansas Basin Account
<u>\$77,750</u>	<u>Statewide Account</u>
\$118,000	Total Grant Request

Matching Funds:

Basin Account Match (\$40,250) = 51.7% of Statewide Account request (meets 10% min);

Applicant's cash & in-kind Match (\$37,500) = 48.2% of Statewide Account request (meets 10% min);

Total Match (Basin & Applicant Match of \$77,750 = 100% of Statewide Account request (meets 50% min).

(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:
Staff recommends approval of up to \$40,250 from the Arkansas Basin Account; and \$77,750 from the Statewide Account to help fund the project titled: Upper Canal Lining Removal and Replacement Project

Water Activity Summary:

If funded, the objectives of this project are to: remove failed concrete sections of the Beaver Park Water Inc's (BPWI) Upper Canal and replace them with new formed concrete. A total of 4,526 linear feet of canal side has been currently identified as being in need of removal and replacement. Approximately 1,200 linear feet is being proposed for replacement.

This canal diverts water under the water rights owned by BPWI from Beaver Creek and supplies water to direct irrigation use for the shareholders of BPWI. The canal additionally delivers water to BPWI's Brush Hollow Reservoir for delivery to BPWI's Lower Canal for direct irrigation use and delivers these waters into storage in Brush Hollow Reservoir for later irrigation use. The BPWI Upper Canal additionally delivers Beaver Creek waters to the Penrose Water District (PWD). The

PWD has a direct water treatment plant intake from the BPWI Upper Canal and diverts and treats these waters daily to supply its domestic and municipal customers.

The total estimated water efficiency savings from this proposed water activity is 1,100 acre-feet/year. Approximately one quarter of this savings would be yielded from this 2017 grant application work. These water efficiency savings will be used to increase the availability of waters supplies to the BPWI, the dependability of water deliveries to the PWD and increase typical storage levels in Brush Hollow Reservoir to the benefit of both the BPWI and wildlife, recreation and fishery interests of the Colorado Parks & Wildlife.

Discussion: The removal and replacement of the canal lining supports Chapter 10 Measurable Objective D: Agriculture Goal in the Colorado Water Plan; *“Maintain Agricultural Viability: Maintain agricultural productivity, support of rural economies and food security”*. By reducing the ditch canal seepage losses, this project helps fulfill the Critical Action: *Support Agricultural Conservation and Efficiency: make it more efficient, resilient and able to reduce water consumption without impacting agricultural productivity*.

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

Eligibility Requirements: The application meets requirements of the three subsections of the Eligibility Requirements: General Eligibility, Entity Eligibility, and Water Activity Eligibility.

Eligibility Based on Funding Match Requirements:

The application meets the Statewide Account Matching requirements.

Evaluation Criteria:

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

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
Beaver Park Water Inc.	\$30,000	\$2,500	\$32,500
Penrose Water District	\$5,000	\$0	\$5,000
Sub-total	\$35,000	\$2,500	\$37,500
WSRF Arkansas Basin Account	\$40,250	n/a	\$40,250
WSRF Statewide Account	\$77,750	n/a	\$30,500
Total Project Costs	\$153,000	\$2,500	\$155,500

CWCB Project Manager: Ben Wade

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
September 19-21, 2017
Agenda Item 22(c)

Applicant: Coalitions and Collaboratives, Inc. for Arkansas River Watershed Collaborative

Water Activity Name: Arkansas Basin Watershed Health Initiative

Water Activity Purpose: Other – Arkansas Basin scale watershed health collaborative projects, working with sub-basin coalitions and basin-wide partners

County: Basin-wide

Drainage Basin: Arkansas

Water Source: Arkansas River & Sub-basins

Amount Requested/Source of Funds:

\$23,000	Arkansas Basin Account
<u>\$230,000</u>	<u>Statewide Account</u>
\$253,000	Total Grant Request

Matching Funds:

Basin Account Match (\$23,000) = 10% of Statewide Account request (does not meet 10% min);

Applicant's Cash Match (\$400,000) = 174% of Statewide Account request (meets 10% min);

Total Match (Basin & Applicant Match of \$423,000 = 184% of Statewide Account request (meets 50% min).
(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:
Staff recommends approval of up to \$23,000 from the Arkansas Basin Account; and \$230,000 from the Statewide Account to help fund the project titled: Arkansas Basin Watershed Health Initiative

Water Activity Summary:

If funded, the objectives of this project are to begin implementing projects identified in the Arkansas River Watershed Collaborative (ARWC) Strategic Plan. These projects include:

1.) Work with the Lower Ark Water Quality Working Group on at least three on-farm soil health/improved irrigation demonstration projects that engage irrigated agricultural producers in projects to reduce selenium, uranium, salinity and nutrients through demo projects across the basin below Pueblo Reservoir. Water quality is negatively impacted to such an extent that Kansas has threatened a Clean Water Act suit if Colorado does not make a diligent effort to improve water quality at the state line. Local county commissioners have indicated during ARWC's strategic planning listening session in the lower basin that they see water quality as a significant economic issue within their communities due to negative impacts to drinking water and agricultural yields.

2.) Coordinate outreach and education with PEPO committee for watershed health purposes. Conduct at least 5 watershed health outreach operations, including but not limited to events like the Arkansas Forum, PEPO functions, and the Sustaining Colorado Watershed Conference.

3.) Work with at least five water utilities and/or conservancy districts to prioritize and input their infrastructure into the federal Wildfire Decision Support System. Mitigate at least 200 acres of prioritized forest areas to reduce post 2016 wildfire impacts on water supplies and infrastructure in the Upper Ark basin. Forest mitigation work will be based on prioritization in partnership with the US Forest Service, the Bureau of Land Management, Colorado State Forest Service, and water stakeholders as associated with the Wildfire-Watershed plans that identify key zones of concern.

Mitigation treatments of at least 200 acres will be performed by either hand crews or logging contractors, implementing treatment polygons laid out by a professional forester and using prescriptions based on best available science. Post-fire work will focus on prioritizations that have already been completed and supported by the key stakeholders, based on approaches developed in Hayman, Waldo, and other fires.

5.) Assist and support local stakeholders in the development of at least two Stream Management Plans in the Arkansas Basin.

6.) Incorporate ARWC into a nonprofit organization and pursue 501(c)3 designation to “build governance” and capacity for both ARWC and sub-basin collaboratives.

Discussion: The continuation of the Arkansas River Watershed Collaborative is a direct outcome of the Arkansas Basin Implementation Plan. The ARWC directly supports Objective G, Funding by *“developing near-term funding opportunities whereby the smallest amount of funding possible has the greatest benefit to implementing the Colorado Water Plan”*. The ARWC also supports Objective F, Watershed Health, Environment and Recreation. Through coordination of basin-wide projects, the ARWC is supporting the enhancement of environmental and recreational economic values, protecting healthy environments, promoting protection and restoration of water quality and critical watersheds.

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

Eligibility Requirements:

The application meets requirements of the three subsections of the Eligibility Requirements: General Eligibility, Entity Eligibility, and Water Activity Eligibility.

Eligibility Based on Funding Match Requirements:

The application meets the Statewide Account Matching requirements.

Evaluation Criteria:

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

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
Coalitions & Collaboratives, Inc	\$400,000	\$0	\$400,000
WSRF Arkansas Basin Account	\$16,000	n/a	\$16,000
WSRF Statewide Account	\$240,000	n/a	\$240,000
Total Project Costs	\$656,000	\$0	\$656,000

CWCB Project Manager: Ben Wade

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
September 19-21, 2017
Agenda Item 22(d)

Applicant: Huerfano County Water Conservancy District

Water Activity Name: Arkansas Basin Implementation Plan Coordinator

Water Activity Purpose: Other - All, implementation of the Arkansas Basin Implementation Plan

County: Arkansas Basin Counties

Drainage Basin: Arkansas

Water Source: Basin-wide

Amount Requested/Source of Funds:

\$50,000	Arkansas Basin Account
\$25,000	<u>Statewide Account</u>
\$75,000	Total Grant Request

Matching Funds:

Basin Account Match (\$25,000) = 200% of Statewide Account request (Does not meet 33.3% min);

Applicant's In-kind Match (\$0) = 0% of Statewide Account request (Not required per guidelines);

Total Match (Basin & Applicant Match of \$50,000 = 200% of Statewide Account request (meets 50% min).
(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:

Staff recommends approval of up to \$50,000 from the Arkansas Basin Account; and \$25,000 from the Statewide Account to help fund the project titled: Arkansas Basin Implementation Plan Coordinator
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Water Activity Summary:

If funded, the objectives of this project are to:

- Conduct outreach to entities with have identified needs but lack the capacity for project development and/or coordination with state and federal agencies and bring those projects forward on behalf of small or challenged project proponents and regional collaborations;
- Identify and coordinate WSRF and non-WSRF funding alternatives for project feasibility, planning, permitting, design and constructions;
- Maintain and update the Basin Needs Database, identifying opportunities for regional collaboration and multi-purpose projects to address identified and future basin needs;

- Recommend projects for phased development to the Arkansas Basin Executive Committee for addition to the Master Needs List;
- Support the Arkansas Roundtable in the implementation of its Basin Plan by accomplishing non-administrative tasks, and by coordinating with the Arkansas River Watershed Collaborative, the Arkansas River Basin Water Forum, and the PEPO Working Group.

Discussion: The continuation of the Arkansas Basin Implementation Plan coordinator role directly supports Objective G, Funding, which states “*Develop near-term funding opportunities whereby the smallest amount of funding possible has the greatest benefit to implementing Colorado’s Water Plan*”. In Year 2 of funding, the BIP Coordinator organized a multi-purpose and multi-benefit project in support of Objective E: Storage in the Purgatoire River Basin.

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

Eligibility Requirements:

The application meets requirements of the three subsections of the Eligibility Requirements: General Eligibility, Entity Eligibility, and Water Activity Eligibility.

Eligibility Based on Funding Match Requirements:

The application meets the Statewide Account Matching requirements.

Evaluation Criteria:

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

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
WSRF Arkansas Basin Account	\$50,000	n/a	\$50,000
WSRF Statewide Account	\$25,000	n/a	\$25,000
Total Project Costs	\$75,000	n/a	\$75,000

CWCB Project Manager: Ben Wade

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
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Applicant & Fiscal Agent: Purgatoire Watershed Partnership
Water Activity Name: Trinidad River Walk Improvement Project
Water Activity Purpose: Multi-Purpose
County: Las Animas
Drainage Basin: Arkansas
Water Source: Purgatoire River
Amount Requested/Source of Funds: \$14,300 Arkansas Basin Account (total grant request)
Matching Funds: Applicant/3rd Party Match (\$10,700 in-kind
• 74.8% of Basin Account request (meets 25% min)
(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:

Staff recommends conditional approval (refer to Issues/Additional Needs section below) of up to \$14,300 from the Arkansas Basin Account to help fund the project titled: Trinidad River Walk Improvement Project.
--

Water Activity Summary: WSRF funds, if approved, will be expended to fund the administration of the project included in Task 5. This task includes support for the Flow Working Group which is the steering committee made up of stakeholders who will oversee the grant through monthly meetings. Administration of the grant also includes invoicing and producing progress and final reporting. The applicant is seeking other CWCB funding for Tasks 1-4 which is stated in the Issues/Additional Needs section below. The estimated total project cost is \$755,400 and the applicant is seeking \$425,400 from Colorado Water Plan grant funds.

Overall, the objectives of the project are as follows:

- Objective 1 – Remove non-native invasive plant species using BMP and IMP strategies along reaches 1 and 2 of the Purgatoire River project area. These reaches will be monitored and treated for invasive plant re-growth over a period of five years after project completion.
- Objective 2 – Bank stabilization following the removal of invasive species to enhance fishing activities at the project area. BMPs will be used to restore stream banks with the construction of cross-vanes and j-hooks. The restoration will include consideration for fishery habitat, human contact for recreation, education, and tourism.

- Objective 3 – Recreation and Education – Recreational uses within the Project Area include, but are not limited to, fishing, floating, bird watching, and public access to the streamside. Three subtasks anticipated are:
 - 1) Design and Permitting. Commercial development adjacent to the river corridor along with previous corridor improvements for fishery habitat suggest an integrated design for the entire corridor. The means and opportunity for public access to the stream banks in a safe manner recognizing that many persons accessing the streamside may be out-of-state tourists.
 - 2) Reduce Operations and Maintenance Costs. The City of Trinidad has an affirmative obligation to the Purgatoire Water Conservancy District (PWCD) for maintenance of the river channel. Deployment of features in the Project Area should reduce the overall cost of that obligation.
 - 3) Educate Citizens. The opportunity to educate the local community and visitors about the history of water resource development in Colorado and the values generated by a restored riparian habitat is a desired outcome of Subtask 1. Safe public access to the river corridor will include both safety warnings and educational media about the history of the community, agriculture and the importance of stewardship of natural resources.
- Objective 4 – Develop Collaborative Flow Management Program which recognizes and conforms to the requirements of the PWCD’s releases while establishing support for other flow needs between the project stakeholders.

Discussion: This project is consistent with the initiatives identified in the Arkansas Basin Implementation Plan for multi-partner and multi-benefit projects. The project is also consistent with the key action items, goals, and measurable objectives identified in Colorado’s Water Plan, specifically Objective F, Watershed Health, Environment and Recreation as well as Objective A, Supply Demand Gap. The project addresses local requirements regarding the Trinidad Project which is a facility with direct impacts to Colorado’s compliance under the Arkansas River Compact with the State of Kansas.

Issues/Additional Needs: Staff recommends **conditional** approval contingent upon the applicant being awarded future Colorado Water Plan Grant Environmental and Recreational Funding and Watershed Restoration Program funds or a combination of the two.

Eligibility Requirements: The application meets requirements of all eligibility components: General Eligibility, Entity Eligibility, Water Activity Eligibility, and Eligibility Based on Match Requirements.

Evaluation Criteria: This activity has undergone review and staff has determined it satisfies the Evaluation Criteria outlined in Colorado’s Water Plan, Section 9.4. Please refer to Basin Roundtable Chair’s Recommendation Letter and the Application for a detailed response.

Funding Summary/Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
Working Group Members	\$0	\$8,000	\$8,000
AmeriCorps VISTA Volunteer	\$0	\$2,700	\$2,700
Subtotal Matching Funds	\$0	\$10,700	\$10,700
WSRA Arkansas Basin Account	\$14,300	n/a	\$14,300
Total Project Costs	\$14,300	\$10,700	\$25,000

CWCB Project Manager: Ben Wade

Water Supply Reserve Fund – Grant and Loan Program
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Applicant & Grantee: Missouri Heights - Mountain Meadow Irrigation Company

Water Activity Name: Missouri Heights - Mountain Meadow Irrigation Company
Ditch Lining Phase C

Water Activity Purpose: Agricultural Implementation

County: Garfield

Drainage Basin: Colorado

Water Source: Cattle Creek to Spring Park Reservoir

Amount Requested: \$40,000 Colorado Basin Account

Matching Funds: Applicant Match (cash & in-kind) = \$407,980

- 1,019% of the Basin Account request (meets 25% min)
- 91% of the total project cost of \$447,980

Staff Recommendation:
Staff recommends approval of up to \$40,000 from the Colorado Basin Account to help fund the project titled: Missouri Heights - Mountain Meadow Irrigation Company Ditch Lining Phase C.

Water Activity Summary: WSRF grant funds, if approved, will help Missouri Heights - Mountain Meadow Irrigation Company improve the condition of 5,800 feet of ditch that seeps about 7 cfs of irrigation water. Objectives of this project include an overall increased efficiency of the delivery system through a reduction in water loss due to seepage and hydrophytic vegetation and a reduction in annual maintenance work and costs. The ditch lining project may result in 630 acre-feet/year in efficiency savings.

The project lies in the Roaring Fork Valley in the eastern portion of Garfield County, Colorado. The Missouri Heights - Mountain Meadow Irrigation Company operates the Missouri Heights Mountain Meadow Irrigation Company Ditch for the benefit of the shareholders by providing irrigation water from the Spring Park Reservoir. The beginning portion of the earthen ditch below the Reservoir loses as much as 30% of the water in the ditch due to seepage through the course and rocky soils. The Missouri Heights - Mountain Meadow Irrigation Company wants to install a 24 inch plastic pipeline to make a permanent fix of this section. Proposed work will take place in the fall of 2017 while the ditch is not in use.

Discussion: As described in the Colorado Basin Roundtable Chair's Recommendation Letter, this project was supported and recommended for approval by the roundtable on May 22, 2017. The project scored 10.25 of a possible 14.25 points on the Colorado BRT scoring matrix which measures how grants address Roundtable objectives. This project assists in satisfying Colorado's Water Plan Critical Goals and Actions as identified in Chapter 10.3, D. Agriculture: Support Agricultural Conservation and Efficiency.

Issues/Additional Needs: Staff will work cooperatively with the grantee to further develop a project budget and schedule that meets the needs of the applicant and State Controller's Office.

Eligibility Requirements: The application meets requirements of all eligibility components: General Eligibility, Entity Eligibility, Water Activity Eligibility, and Eligibility Based on Match Requirements.

Evaluation Criteria: This activity has undergone review and evaluation and staff has determined that it satisfies the Evaluation Criteria. Please refer to Basin Roundtable Chair's Recommendation Letter and the WSRF Grant Application for applicant's detailed response.

Funding Summary / Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-Kind</u>	<u>Total</u>
Natural Resources Conservation Service (EQIP)	\$179,113	\$150,000	\$179,113
Ditch Company Funds	\$78,867	\$0	\$78,867
Subtotal Match Funding	\$257,980	\$150,000	\$407,980
WSRF Colorado Basin Account	\$40,000	n/a	\$40,000
Totals	\$297,980	\$150,000	\$447,980

CWCB Project Manager: Megan Holcomb

Water Supply Reserve Fund – Grant and Loan Program
Water Activity Summary Sheet
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Applicant & Grantee: Arch Ditch Association

Water Activity Name: Arch Ditch Headgate Improvement Project

Water Activity Purpose: Agricultural Implementation

County: Saguache

Drainage Basin: Gunnison

Water Source: Tomichi Creek

Amount Requested: \$20,096 Gunnison Basin Account

Matching Funds: Applicant Match (\$6,699 cash & in-kind)

- 33.3% of Basin Account request (meets 25% min)
- 25% of total project cost of \$23,000
(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:
Staff recommends approval of up to \$20,096 from the Gunnison Basin Account to help fund the project titled: Arch Ditch Headgate Improvement Project.

Water Activity Summary: This WSRF grant, if approved, will assist the Arch Ditch Association's efforts to upgrade their water infrastructure. These upgrades include: adding hydraulic power to an existing diversion structure headgate; replacement of an existing wooden gate with a steel gate; addition of two new walkways (one for access to the diversion structure, one for access to the trash rack; overlay the lower skirt of the existing diversion structure with steel plating; addition of a trash rack. The Arch Ditch Association consists of 8 landowners that irrigate approximately 2,500 acres of hay and pasture on Tomichi Creek near Gunnison, CO. The Arch Ditch is approximately 7 miles long and is one of the largest ditches in the Gunnison area.

Discussion: As pointed out in the Gunnison Basin Roundtable Chair's recommendation letter, this project meets Goals 1, 2, 3 and 8 of the Gunnison Basin Implementation Plan.

This project assists in satisfying Colorado's Water Plan Critical Goals and Actions as identified in *Chapter 10.3.D: Agriculture* as the project supports updating and improving Colorado's aging agricultural infrastructure.

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

Eligibility Requirements: The application meets requirements of all eligibility components: General Eligibility, Entity Eligibility, Water Activity Eligibility, and Eligibility Based on Match Requirements.

Evaluation Criteria: This activity has undergone review and staff has determined it satisfies the Evaluation Criteria outlined in Colorado's Water Plan, Section 9.4. Please refer to Basin Roundtable Chair's Recommendation Letter and the Application for a detailed response.

Funding Summary / Matching Funds:

Funding Source

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>	<u>Status</u>
Arch Ditch Association	\$6,699	\$0	\$6,699	Secured
WSRF North Platte Basin Account	\$20,096	n/a	\$20,096	n/a
Total	\$26,795	\$0	\$26,795	

CWCB Project Manager: Craig Godbout

Water Supply Reserve Fund – Grant and Loan Program
Water Activity Summary Sheet
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Applicant & Grantee: Stewart Ditch and Reservoir Company

Water Activity Name: Upper Stewart Ditch Pipeline Project

Water Activity Purpose: Agricultural Implementation

County: Delta

Drainage Basin: Gunnison

Water Source: North Fork of the Gunnison River

Amount Requested: \$20,500 Gunnison Basin Account
\$205,000 Statewide Account
\$225,500 Total request

Matching Funds: Basin Account Match (\$20,500) = 10% of Statewide Account request (meets 10% min)
Applicant & 3rd Party Match (\$2,777,524 cash & in-kind) = 1,355% of Statewide Account request (meets 10% min)
Total Match (Basin & Applicant/3rd Party Match of \$2,798,024 = 1,365% of Statewide Account request (meets 50% min)).
(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:
Staff recommends conditional approval contingent upon the applicant satisfying the conditions set forth in Issues/Additional Needs section below of up to \$20,500 from the Gunnison Basin Account; and up to \$205,000 from the Statewide Account to help fund the project titled: Upper Stewart Ditch Pipeline Project.

Water Activity Summary: This WSRF grant, if approved, will assist the Stewart Ditch and Reservoir Company replace 14,221 feet of existing earthen canal, 243 feet of deteriorating existing concrete pipe, and 1,536 feet of deteriorating existing corrugated metal pipe with 16,000 feet of pressure pipe on the Stewart Ditch. Specific tasks include: Engineering and Analysis (Final Design, NEPA compliance, Cultural Resource Field Survey, Habitat Replacement), Implementation of the Habitat Replacement Plan and NEPA Construction over site, Pipeline Construction, and A-133 Audit. The goal of these efforts are to reduce salt loading, reduce seepage, thus reducing agricultural water loss, and provide an opportunity for irrigators to install more efficient irrigation systems (pivot sprinklers). The Stewart Ditch and Reservoir Company is privately owned by 245 shareholders representing approximately 2,726 irrigated acres.

Discussion: As pointed out in the Gunnison Basin Roundtable Chair's recommendation letter, this project meets Goals 1, 2, 3 and 8 of the Gunnison Basin Implementation Plan.

This project assists in satisfying Colorado's Water Plan Critical Goals and Actions as identified in *Chapter 10.3.D: Agriculture* as the project supports updating and improving Colorado's aging agricultural infrastructure.

Issues/Additional Needs: As indicated in the application Statement of Work, the applicant has a grant proposal before the Bureau of Reclamation which if approved, will not be awarded until November 2017. Therefore it is staff's recommendation that the CWCB Board conditionally approve this grant request contingent upon the applicant securing the BOR grant.

Eligibility Requirements: The application meets requirements of all eligibility components: General Eligibility, Entity Eligibility, Water Activity Eligibility, and Eligibility Based on Match Requirements.

Evaluation Criteria: This activity has undergone review and staff has determined it satisfies the Evaluation Criteria outlined in Colorado's Water Plan, Section 9.4. Please refer to Basin Roundtable Chair's Recommendation Letter and the Application for a detailed response.

Funding Summary / Matching Funds:

Funding Source	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>	<u>Status</u>
Stewart Ditch and Reservoir Company	\$0	\$177,600	\$177,600	Secured
BOR	\$2,599,924	\$0	\$2,599,924	Pending
Sub-total	\$2,599,924	\$177,600	\$2,777,524	
WSRF Gunnison Basin Account	\$20,500	n/a	\$20,500	
Sub-total	\$2,620,424	\$177,600	\$2,798,024	
WSRF Statewide Account	\$205,000	n/a	\$205,000	
Total	\$2,825,424	\$177,600	\$3,003,024	

CWCB Project Manager: Craig Godbout

Water Supply Reserve Fund – Grant and Loan Program
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Applicant & Grantee: Lucky Penny Ranches LLC

Water Activity Name: Aqua Fria Reservoir Rehabilitation

Water Activity Purpose: Nonconsumptive/Agricultural Implementation

County: Jackson

Drainage Basin: North Platte

Water Source: Beaver Creek

Amount Requested: \$75,000 North Platte Basin Account

Matching Funds: Applicant Match (\$25,000 cash & in-kind)

- 33.3% of Basin Account request (meets 25% min)
- 25% of total project cost of \$100,000
(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:
Staff recommends approval of up to \$75,000 from the North Platte Basin Account to help fund the project titled: Aqua Fria Reservoir Rehabilitation.

Water Activity Summary: This WSRF grant, if approved, will assist the Lucky Penny Ranch in their efforts to rehabilitate the Aqua Fria Reservoir. Rehabilitation efforts include the installation of a debris curtain upstream of the dam face, replacing the dam face with hand placed rocks and grout, camera inspection of outlet pipes to determine replacement needs, camera inspection of internal dam pipes to determine repair needs, evaluate and if necessary repair pipe/gate system, repair outlet gate and wheel assembly, install a trash rack, clear pathway of emergency spillway, installation of a gauging system. These improvements will assist the applicant in meeting the requirements of the State Engineer's Office. Water from this reservoir is used to irrigate hay meadows to produce very high quality mountain meadow hay used for North Park cattle production. Funding for this project will also help preserve a quality fishery and provide nesting habitat for water fowls and other bird species.

Discussion: As pointed out in the Basin Roundtable Chair's Recommendation Letter, several goals set forth in the North Platte Basin Implementation Plan are addressed by the project. The preserved storage helps to maintain and maximize the consumptive use of water in the basin while helping to maintain important existing water infrastructure. In addition, the multiple purpose uses of the reservoir help to directly maintain healthy wetlands while showcasing the beneficial relationship between agricultural and environmental and recreational water use.

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

Eligibility Requirements: The application meets requirements of all eligibility components: General Eligibility, Entity Eligibility, Water Activity Eligibility, and Eligibility Based on Match Requirements.

Evaluation Criteria: This activity has undergone review and staff has determined it satisfies the Evaluation Criteria outlined in Colorado's Water Plan, Section 9.4. Please refer to Basin Roundtable Chair's Recommendation Letter and the Application for a detailed response.

Funding Summary / Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>	<u>Status</u>
Lucky Penny Ranch LLC	\$15,000	\$10,000	\$25,000	Secured
WSRF North Platte Basin Account	\$75,000	n/a	\$75,000	n/a
Total	\$90,000	\$10,000	\$100,000	

CWCB Project Manager: Craig Godbout

Water Supply Reserve Fund – Grant and Loan Program
Water Activity Summary Sheet
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Applicant & Grantee: Colorado Rio Grande Restoration Foundation

Water Activity Name: Five Ditches: Rio Grande Diversion and Headgate Improvement

Water Activity Purpose: Agricultural Implementation

County: Rio Grande

Drainage Basin: Rio Grande

Water Source: Rio Grande

Amount Requested: \$98,000 Rio Grande Basin Account
\$882,000 Statewide Account
\$980,000 Total Grant Request

Matching Funds: Basin Account Match (\$98,000) = 11.1% of Statewide Account request (meets 10% min)
Applicant & 3rd Party Match (\$2,035,500 cash & in-kind) = 231% of Statewide Account request (meets 10% min)
Total Match (Basin & Applicant/3rd Party Match of \$2,133,500) = 242% of Statewide Account request (meets 50% min)
(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:

Staff recommends approval of up to \$98,000 from the Rio Grande Basin Account and up to \$882,000 from the Statewide Account to help fund the project titled: Five Ditches: Rio Grande Diversion and Headgate Improvement.
--

Water Activity Summary: The Consolidated Ditch, Pace Ditch, San Luis Valley Canal, Centennial Ditch, and Rio Grande #2 Ditch divert water off the Rio Grande to irrigate a combined 35,906 acres of agricultural land. Each ditch is facing issues of aging and inefficient diversion infrastructure and the river is impacted by nearby channel instability and sedimentation. WSRF grant funds, if approved, will help the Colorado Rio Grande Restoration Foundation (RGSWA) address identified issues by funding the construction of diversion and headgate replacements, as well as streambank stabilization and riparian restoration adjacent to each location as follows. The project will replace the Rio Grande #2 diversion and headgate, the Consolidated and Pace Ditch diversion and headgates, the SLV Canal headgate, and the Centennial Ditch Diversion, and stabilize a total of 3,500 streambank miles.

Each ditch company will benefit from improved efficiency and reduced maintenance. The project will enhance water quality by reducing sediment input, improve riparian condition, improve aquatic and wildlife habitat, and enhance local recreation and community safety by ensuring diversions are passable by fish and boats where appropriate. When complete, the project will help ensure that the Rio Grande can continue to support the diverse human, agricultural, and ecological communities that depend on it.

Discussion: As described in the Rio Grande Basin Roundtable Chair’s Recommendation Letter, this project was supported and recommended for approval by the roundtable on July 11, 2017. The Five Ditches Project is a structural project that will improve the ability of the Rio Grande to meet consumptive and non-consumptive needs by replacing poorly functioning diversions and headgates for five ditches while stabilizing streambanks and increasing the ability of the river to transport water. Cumulatively, the Five Ditches Project will benefit 143 individual stakeholders who divert a total of over 85,000 acre-feet and irrigate 35,906 acres.

In addition to meeting many of the Rio Grande Basin Goals (#1,2,4,5,6,7,9,10,11,12,14), the project aligns with the Colorado Water Plan’s policy to identify and implement projects to meet community and agricultural water needs, while balancing the needs of the environment and recreation (see Critical Goals and Actions as identified in *Chapter 10.3.D: Agriculture, 10.3.E. Storage, and 10.3.F. Watershed Health, Environment, and Recreation.*). The development of the Five Ditches Project is a result of years of planning and collaboration between multiple ditch companies, State and Federal agencies, San Luis Valley nonprofit organizations, and area landowners, farmers, and ranchers. Participation from diverse stakeholders ensures that both consumptive and non-consumptive needs are being met through the design and implementation of each project component. In addition, Project partners have raised a significant amount of funding through NRCS programs, landowners, and in-kind contributions totaling 74% of the project cost. Without the requested WSRF funds, partners would likely not be able to raise sufficient dollars out of pocket or from other grant sources in time to retain the grants currently secured. As such, WSRF funds are critical to complete the Project.

As the Rio Grande Basin faces water shortages and prolonged drought, the need for accurate water management becomes increasingly crucial. The Project will assist in administration of the Rio Grande Compact as it includes installation of automated measuring gates on several headgates and improvements to the gauging stations in the ditches. These improvements will assist the Division Engineer in water management and meeting the Rio Grande Compact.

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

Eligibility Requirements: The application meets requirements of the three subsections of the Eligibility Requirements: General Eligibility, Entity Eligibility, and Water Activity Eligibility.

Funding Match Requirements: This application meets the Basin Account Matching requirements.

Evaluation Criteria: This activity has undergone review and evaluation and staff has determined that it satisfies the Evaluation Criteria. Please refer to Basin Roundtable Chair’s Recommendation Letter and the WSRF Grant Application for applicant’s detailed response.

Funding Summary / Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-Kind</u>	<u>Total</u>
Natural Resources Conservation Service (EQIP)	\$750,000	\$180,000	\$930,000
Consolidated Ditch and Headgate Company (CWCB Loan)	\$650,000	\$0	\$650,000
Centennial Ditch Company (CWCB Loan)	\$230,000	\$0	\$230,000
San Luis Valley Canal Company	\$200,000	\$0	\$200,000
Rio Grande Ditch #2	\$7,500	\$8,000	\$15,500
Colorado Rio Grande Restoration Foundation	\$0	\$10,000	\$10,000

Subtotals	\$1,837,500	\$198,000	\$2,035,500
WSRF Statewide Account	\$882,000		\$882,000
WSRF Rio Grande Basin Account	\$98,000		\$98,000
Totals	\$2,817,500	\$198,000	\$3,015,500

CWCB Project Manager: Jonathan Hernandez

Water Supply Reserve Fund – Grant and Loan Program
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Applicant & Grantee: Poudre Learning Center Foundation

Water Activity Name: Poudre Learning Center Water Education and Outreach

Water Activity Purpose: Education & Outreach

County: Selected counties w/in South Platte Basin

Drainage Basin: South Platte

Water Source: n/a

Amount Requested: \$9,979 South Platte Basin Account
\$40,000 Statewide Account
\$49,979 Total request

Matching Funds: Basin Account Match (\$9,979) = 25% of Statewide Account request (meets 10% min)
Applicant & 3rd Party Match (\$211,000 cash & in-kind) = 528% of Statewide Account request (meets 10% min)
Total Match (Basin & Applicant/3rd Party Match of \$230,979 = 577% of Statewide Account request (meets 50% min)).
(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:

Staff recommends approval of up to \$9,979 from the South Platte Basin Account; and up to \$40,000 from the Statewide Account to help fund the project titled: Poudre Learning Center Water Education and Outreach.

Water Activity Summary: This WSRF grant, if approved, will assist the Poudre Learning Center Foundation (PLCF) to collaborate with the South Platte Basin Round Table (SPBRT) Education & Outreach Committee and Education Coordinator to address the water supply gap and projects needed to reduce this gap for the intended audiences. In discussions with SPBRT members, they have express interest in improving their education and outreach activities, particularly around the water supply gap and options to reduce the gap. Roundtable members have suggested that working with the PLC to hone and share this common message is a priority and agreed that the PLC facility is a location with which they would like to create and build a long-term relationship. Another step will be for the PLC to meet with the new SPBRT Education Coordinator to find out what the messages is to be delivered and understandings built upon. The plan is to revise and adapt the multiple education programs at the PLC by working with the SPBRT Education Committee, developing the most effective strategies to disseminate to kids and their families. PLC proposes to achieve these efforts by executing the following tasks:

- Task 1: Project Administration
- Task 2: Design Factors (To develop a clear and concise plan the PLC will collaborate with the SPBRT education coordinator to learn more about the specifics of the concepts to be presented and understandings to be built upon).

- Task 3: Survey, Design, Technologies (The PLC will conduct a survey of current strategies used to address the water gap in the basin. This data will be analyzed and used to specifically design the implementation plan to address the gaps in programming and outreach in the basin.)
- Task 4: Implementation (Each water education & outreach activity will be introduced and supported by an assortment of internet and social media tools and strategies, many of which can be developed by student for students, to further support and strengthen STEM educational activities. The PLC web site will be revised to include awareness and advertising the water education & outreach activities and with links to the South Platte Basin web site. PLC staff will make postings on Facebook, Twitter, and Instagram to inform our focused audience. Webinars and short instructional videos will be created to support and extend learning opportunities. Internet and social media tools and strategies activities are critical in assisting in closing the gap to ensure sustainability of strong agriculture and a healthy natural environment).
- Task 5: Reporting (Quarterly reports will be submitted to SPBRT and CWCB. Each report will discuss the results of activities completed to date and include any quantitative measures or other outcomes of activities, if applicable. Included will be a complete summary for funds expended to date. Documentation of all expenditures will be in the final SPBRT and CWCB completion report).

Discussion: These efforts assist the South Platte Basin Roundtable and the State of Colorado satisfy the Education, Participation and Outreach goals set forth in the South Platte Basin Implementation Plan as called out in *Section 4.1.3: Suggested Activities: 2015 and Beyond*.

This project assists in satisfying Colorado's Water Plan Critical Goals and Actions as identified in *Chapter 10.3.H: Education, Outreach, and Innovation* as the project supports expanding educational, outreach and innovative approaches.

Issues/Additional Needs: CWCB staff will work cooperatively with the Poudre Learning Center to develop an acceptable Statement of Work, Budget and Schedule that meets contracting requirements, and will guide PLC in obtaining all Matching Letters of Commitment.

Eligibility Requirements: The application meets requirements of all eligibility components: General Eligibility, Entity Eligibility, Water Activity Eligibility, and Eligibility Based on Match Requirements.

Eligibility Based on Funding Match Requirements:

The application meets the Statewide Account Matching requirements.

Evaluation Criteria: This activity has undergone review and staff has determined it satisfies the Evaluation Criteria outlined in Colorado's Water Plan, Section 9.4. Please refer to Basin Roundtable Chair's Recommendation Letter and the Application for a detailed response.

Funding Summary / Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>	<u>Status</u>
PLC	\$0	\$53,500	\$53,500	Secured
Comingled Cash Matches:				
PLC				
City of Greeley				
Central Colorado Water Conservation District				
Agrium				
<u>West Greeley Conservation District</u>				
Sub-total Comingled Match	\$167,500	\$0	\$167,500	Pending & Secured
Sub-total Match Funding	\$167,500	\$53,500	\$221,000	
WSRF South Platte Basin Account	\$9,979	n/a	\$9,979	
WSRF Statewide Account	\$40,000	n/a	\$40,000	
Total Project Costs	\$217,479	\$53,500	\$270,979	

CWCB Project Manager: Craig Godbout

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Applicant & Grantee: Open Water Foundation

Water Activity Name: South Platte Basin Roundtable Data Platform

Water Activity Purpose: Agricultural Implementation

County: Selected counties w/in South Platte Basin

Drainage Basin: South Platte

Water Source: South Platte

Amount Requested: \$20,000 South Platte Basin Account
\$20,000 Metro Account
\$60,000 Statewide Account
\$100,000 Total request

Matching Funds: Total Basin Account Match (\$40,000) = 66.7% of Statewide Account request (meets 10% min)
Applicant (\$50,000 in-kind) = 83% of Statewide Account request (meets 10% min)
Total Match (Basin & Applicant Match of \$90,000 = 150% of Statewide Account request (meets 50% min)).
(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:

Staff recommends approval up to \$20,000 from the South Platte Basin Account; and up to \$20,000 from the Metro Account, and up to \$60,000 from the Statewide Account to help fund the project titled: South Platte Basin Roundtable Data Platform.
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Water Activity Summary: This WSRF grant, if approved, will assist the Open Water Foundation (OWF) to implement a web-accessible data platform that can be used by South Platte and Metro Roundtable members to facilitate the work of the Roundtables. This platform will utilize existing datasets and open technologies to implement processes to integrate datasets from multiple original sources. Data products and visualizations will provide context and explain water resources issues in the South Platte. The project will focus on fundamental datasets such as lists of municipalities, water providers, ditch companies, and large industries in the basin, and datasets that provide insight on multi-faceted water issues that evolve over time. The datasets will be made available in forms usable by Statewide Water Supply Initiative (SWSI) Update, Basin Implementation Plan (BIP), and other projects. Visualizations will be implemented to emphasize important issues for each sector (agriculture, recreation, environment, municipal and industrial). The project will leverage previous and ongoing work from OWF and its collaborators and will be coordinated with other projects. The project will enhance the ability of the Roundtable to tell its story to other roundtables and the public through the use of data-driven stories. The project will result in an open platform that can be evaluated by the Roundtable and enhanced.

Discussion: The applicant currently is engaged in a previous effort funded with WSRF Grant funding (Agricultural Land/Water Buffer Feasibility Analysis in the South Platte River Basin; \$104,954 in South Platte Basin Account and Statewide Account funds request approved by CWCBC in March 2015).

These efforts assist the South Platte Basin Roundtable and the State of Colorado satisfy the Education, Participation and Outreach goals set forth in the South Platte Basin Implementation Plan as called out in *Section 4.1.3: Suggested Activities: 2015 and Beyond*.

This project assists in satisfying Colorado's Water Plan Critical Goals and Actions as identified in *Chapter 10.3.H: Education, Outreach, and Innovation* as the project supports expanding educational, outreach and innovative approaches.

Issues/Additional Needs: Staff will work cooperatively with the applicant to obtain Letters of Matching Commitment, otherwise no issues or additional needs have been identified..

Eligibility Requirements: The application meets requirements of all eligibility components: General Eligibility, Entity Eligibility, Water Activity Eligibility, and Eligibility Based on Match Requirements.

Evaluation Criteria: This activity has undergone review and staff has determined it satisfies the Evaluation Criteria outlined in Colorado's Water Plan, Section 9.4. Please refer to Basin Roundtable Chair's Recommendation Letter and the Application for a detailed response.

Funding Summary / Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>	<u>Status</u>
S.D. Bechtel Jr. Foundation	\$46,386	\$0	\$46,386	Secured
WSRF South Platte Basin Account	\$20,000	n/a	\$20,000	
WSRF Metro Account	\$20,000	n/a	\$20,000	
WSRF Statewide Account	\$60,000	n/a	\$60,000	
Total	\$146,386	\$0	\$146,386	

CWCBC Project Manager: Craig Godbout

Water Supply Reserve Fund – Grant and Loan Program
Water Activity Summary Sheet
Sept 19-21, 2017
Agenda Item 22(m)

Applicant & Grantee: Wildland Restoration Volunteers

Water Activity Name: Community Sub-basin Post-Flood Source Water Protection

Water Activity Purpose: Nonconsumptive

County: Selected sites w/in South Platte Basin

Drainage Basin: South Platte

Water Source: South Platte

Amount Requested: \$25,000 South Platte Basin Account
\$25,000 Statewide Account
\$50,000 Total request

Matching Funds: Basin Account Match (\$25,000) = 100% of Statewide Account request (meets 10% min)
Applicant & 3rd Party Match (\$406,910 cash & in-kind) = 1,628% of Statewide Account request (meets 10% min)
Total Match (Basin & Applicant/3rd Party Match of \$431,910 = 1,727% of Statewide Account request (meets 50% min)).
(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:

Staff recommends approval up to \$25,000 from the South Platte Basin Account; and up to \$25,000 from the Statewide Account to help fund the project titled: Community Sub-basin Post-Flood Source Water Protection.
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Water Activity Summary: This WSRF grant, if approved, will assist Wildland Restoration Volunteers (WRV) to work with multiple partners in the Big Thompson, Little Thompson, Left Hand, James Creek, and St. Vrain drainages to control sediment by installing erosion control products, planting healthy native riparian plant communities across 16 acres, and removing tens of thousands of tamarisk saplings across 20 acres, and spanning 2.2 miles of stream.

Objectives of the project include:

1. Improve source water quality by stabilizing channels using a variety of cutting-edge techniques.
2. Reduce erosion by revegetating 16 acres of riparian corridor using professional labor, volunteers, and demonstrated revegetation expertise.
3. Reduce hazards and decrease likelihood of property damage by future floods.
4. Educate volunteers about water quality and conservation, and other goals of the South Plate BRT.
5. Search and remove invasive phreatophytes from approximately 20 acres

Activities will include native seeding, planting wetland plants, application of soil amendments (e.g. biosol, humate, inoculant as appropriate to streambank elevation), caging of the plants to prevent

beaver depredation, and installation of erosion matting and WoodStraw mulch to prevent erosion and increase groundwater infiltration. Plants will establish roots, stabilize the streambanks, provide structure for habitat, and eventually deposit leaf litter and rebuild healthy soils.

Discussion: These efforts assist the South Plate Basin Roundtable satisfy the Environmental and Recreational Goals: MO #1 Promote Restoration, Recovery, and Sustainability of Endangered, Threatened, and Imperiled Aquatic, Riparian and Wetland Dependent Species and Plant Communities; MO #3 Maintain or increase the number of stream miles or surface area of streams, lakes, wetlands and riparian areas for self-sustaining aquatic species populations, and wetland/riparian habitat, and Maintain or improve watershed health through source water protection, wildfire mitigation, sedimentation control and erosion control.

This project assists in satisfying Colorado's Water Plan Critical Goals and Actions as identified in *Chapter 10.3.F: Watershed Health, Environment, and Recreation* as the project supports expanding educational, outreach and innovative approaches.

Issues/Additional Needs: CWCB staff will work cooperatively with the applicant to develop a Statement of Work, Budget and Schedule that conforms to contracting requirements, and will coordinate with the applicant in obtaining the required Letter of Matching Commitment.

Eligibility Requirements: The application meets requirements of all eligibility components: General Eligibility, Entity Eligibility, Water Activity Eligibility, and Eligibility Based on Match Requirements.

Evaluation Criteria: This activity has undergone review and staff has determined it satisfies the Evaluation Criteria outlined in Colorado's Water Plan, Section 9.4. Please refer to Basin Roundtable Chair's Recommendation Letter and the Application for a detailed response.

Funding Summary / Matching Funds:

Funding Source	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>	<u>Status</u>
Wildland Restoration Volunteers	\$0	\$62,198	\$62,198	Secured
Arapahoe Roosevelt National Forest	\$63,940	\$4,200	\$68,140	Secured
Audubon Rockies	\$1,000	\$0	\$1,000	Pending
Lyons Community Foundation	\$2,500	\$0	\$2,500	Secured
Little Thompson Watershed Coalition	\$16,000	\$85,000	\$101,000	Pending/Pending
Trout Unlimited	\$4,000	\$0	\$4,000	Pending
City of Longmont	\$71,000	\$75,000	\$146,000	Pending/Pending
Boulder Preparatory Academy	\$0	\$572	\$572	Pending
Terra Foundation	\$11,500	\$0	\$11,500	Pending
National Forest Foundation	\$2,000	\$0	\$2,000	Secured
CWCB Invasive Phreatophyte Control Program	\$8,000	\$0	\$8,000	Secured
Sub-total Matching Funds	\$179,940	\$226,970	\$406,910	
WSRF South Platte Basin Account	\$25,000	n/a	\$25,000	
WSRF Statewide Account	\$25,000	n/a	\$25,000	
Total Project Costs	\$229,940	\$226,970	\$456,910	

CWCB Project Manager: Craig Godbout