



COLORADO

**Colorado Water
Conservation Board**

Department of Natural Resources

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Jared Polis, Governor

Dan Gibbs, DNR Executive Director

Rebecca Mitchell, CWCB Director

TO: Colorado Water Conservation Board Members

FROM: Ben Wade
Water Supply Planning Section

DATE: February 22, 2021

AGENDA ITEM: Consent Agenda #2a-q, Water Supply Reserve Fund, Grant Funding Recommendations

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 consent 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
MARCH 2021

Updated 2/24/2021

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 (FY2017)	\$0	\$0	\$0	\$0
2017/2018 (FY2018)	\$10,000,000	\$1,455,776	\$931,697	\$524,079
2017/2018 CF (FY2018)	\$0	\$7,000,000	\$4,480,000	\$2,520,000
2018/2019 CF (FY2019)	\$0	\$3,544,884	\$2,268,726	\$1,276,158
2019/2020 (FY2020)	\$10,000,000	\$10,000,000	\$6,400,000	\$3,600,000
2020/2021 (FY2021)	\$2,500,000	\$2,500,000	\$1,600,000	\$900,000
Interest	N/A	\$2,857,935	\$3,541,544	
(Prior Years Interest Adjustment 2007-2014 and FY2015, FY2016, FY2017)				
FY 2018 Interest	N/A	\$ 376,467	\$376,467	\$0
FY 2019 Interest	N/A	\$ 431,589	\$431,589	\$0
FY 2020 Interest	N/A	\$ 558,732	\$558,732	\$0
FY 2021 Interest	N/A	\$ 209,244	\$209,244	\$0
TOTAL	\$107,275,000	\$107,062,580	\$71,391,639	\$36,354,551

Note: The WSRF is a Severance Tax "Tier II" program & CF Funding 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	\$3,607,149	\$4,039,395	\$432,246	\$	12,733,703
Colorado*	\$3,702,779	\$4,039,395	\$336,616	\$	6,508,889
Southwest *	\$3,596,144	\$4,039,395	\$443,251	\$	8,876,036
Gunnison *	\$3,671,957	\$4,039,395	\$367,438	\$	6,866,607
Metro *	\$3,249,801	\$4,039,395	\$789,594	\$	7,656,532
North Platte	\$3,047,230	\$4,039,395	\$992,165	\$	842,844
Rio Grande*	\$3,788,048	\$4,039,395	\$251,347	\$	13,104,635
South Platte *	\$3,412,530	\$4,039,395	\$626,865	\$	7,968,627
Yampa/White	\$3,296,104	\$4,039,395	\$743,291	\$	997,969
TOTAL	\$31,371,742	\$36,354,551	\$4,982,813	\$65,555,841	\$5,835,798
TOTAL APPROVED GRANTS					\$96,927,583

Note: Only includes grants approved by CWCB

* Comments reflect adjustments to balances

Water Supply Reserve Fund Applications for Consideration at the March 2021 CWCB Board Meeting															
Agenda Item	Basin	Applicant/Grantee	Name of Water Activity	Basin(s) Account Request	Statewide Account Requests	Total Request	Match % Basin vs Statewide Request (min. 10%)	Non-WSRF Cash Match	Non-WSRF In-Kind Match	Non-WSRF Total Match	Statewide Match (Basin & Non-WSRF)	Total Project Costs	Staff Recommendations	PM	
a	Arkansas	Northern Water	Colorado Airborne Snow Observatory Expansion Plan	\$5,000	\$20,000	\$45,000	125.00%	\$0	\$44,000	\$44,000	\$64,000	\$89,000	Staff recommends approval of up to \$5,000 from each of the Arkansas, Colorado, Gunnison, Metro & South Platte Basin Accounts and up to \$20,000 from the Statewide Account	Erik Skeie	
	Colorado			\$5,000											
	Gunnison			\$5,000											
	Metro			\$5,000											
	South Platte			\$5,000											
b	Colorado	Colorado Ag Water Alliance	Outreach & Capacity Building for Ag Water Projects	\$5,750	\$13,186	\$18,936	43.61%	\$55,734	\$0	\$55,734	\$61,484	\$74,670	Staff recommends approval of \$5,750 from the Colorado Basin Account, and \$13,186 from the Statewide Account	Ben Wade	
c	Colorado	Charles F Perry	The Toponas Project: Phase 1 Continued HDPE Install	\$25,000	\$0	\$25,000	N/A	\$20,000	\$0	\$20,000	\$0	\$45,000	Staff recommends approval of \$25,000 from the Colorado Basin Account	Ben Wade	
d	Colorado	City of Glenwood Springs	Three Mile Creek Confluence Restoration Project	\$10,000	\$85,000	\$95,000	11.76%	\$120,000	\$27,750	\$147,750	\$157,750	\$252,750	Staff recommends approval of \$10,000 from the Colorado Basin Account, and \$85,000 from the Statewide Account	Chris Sturm	
e	Metro	City of Thornton	Regional Land Use Assessment & Water Optimization Study	\$25,000	\$50,000	\$100,000	50.00%	\$300,000	\$0	\$300,000	\$350,000	\$400,000	Staff recommends approval of \$25,000 from the Metro Basin Account, \$25,000 from the South Platte Basin Account, and \$50,000 from the Statewide Account	Alex Funk	
	South Platte			\$25,000											
f	Metro	Independence Water & San	Regulation 84 Edible Crop Irrigation Public Education & Outreach	\$5,000	\$15,000	\$25,000	33.33%	\$40,600	\$16,000	\$56,600	\$66,600	\$81,600	Staff recommends approval of \$5,000 from the Metro Basin Account, \$5,000 from the South Platte Basin Account, and \$15,000 from the Statewide Account	Ben Wade	
	South Platte			\$5,000											
g	Metro	Colorado Watershed Assembly	Roundtable Education/Outreach	\$18,500	\$0	\$37,000		\$12,500	\$0	\$12,500	\$0	\$49,500	Staff recommends approval of \$18,500 from the Metro Basin Account and \$18,500 from the South Platte Basin Account	Ben Wade	
	South Platte			\$18,500											
h	Metro	The Greenway Foundation	Nautilus 2	\$25,000	\$25,000	\$60,000	100.00%	\$31,900	\$0	\$31,900	\$66,900	\$91,900	Staff recommends approval of \$25,000 from the Metro Basin Account, \$10,000 from the South Platte Basin Account, and \$25,000 from the Statewide Account	Ben Wade	
	South Platte			\$10,000											
i	Metro	Western Resource Advocates	Non-Essential Turf Replacement	\$12,500	\$0	\$25,000	N/A	\$400,833	\$94,045	\$494,878	\$0	\$519,878	Staff recommends approval of \$12,500 from the Metro Basin Account and \$12,500 from the South Platte Basin Account	Kevin Reidy	
	South Platte			\$12,500											
j	Metro	Open Water Foundation	River Basin Information Websites	\$10,000	\$15,000	\$45,000	66.67%	\$25,000	\$100,000	\$125,000	\$155,000	\$170,000	Staff recommends approval of \$10,000 from the Metro Basin Account, \$20,000 from the South Platte Basin Account, and \$15,000 from the Statewide Account	Carolyn Kemp	
	South Platte			\$20,000											
k	Metro	The Greenway Foundation	Clean River Design Challenge	\$6,500	\$10,000	\$16,500	65.00%	\$39,225	\$2,500	\$41,725	\$48,225	\$58,225	Staff recommends approval of \$6,500 from the Metro Basin Account, and \$15,000 from the Statewide Account	Ben Wade	
l	Metro	West Denver Trout Unlimited	Clear Creek Integrated Water Managment Plan Phase 1	\$10,000	\$0	\$10,000	N/A	\$29,000	\$5,000	\$34,000	\$0	\$44,000	Staff recommends approval of \$10,000 from the Metro Basin Account	Chris Sturm	
m	South Platte	Town of Erie	Horizontal Well Pilot Project	\$25,000	\$50,000	\$75,000	50.00%	\$1,800,000	\$0	\$1,800,000	\$1,825,000	\$1,900,000	Staff recommends approval of \$25,000 from the South Platte Basin Account, and \$50,000 from the Statewide Account	Cole Bedford	
n	Southwest	Mountain Studies Institute	416 Fire Aquatic Monitoring Phase 3	\$1,720	\$17,180	\$18,900	10.01%	\$10,500	\$0	\$11,500	\$13,220	\$30,400	Staff recommends approval of \$1,720 from the Southwest Basin Account, and \$17,180 from the Statewide Account	Ben Wade	
o	Southwest	Mountain Studies Institute	Forests 2 Faucets	\$1,566	\$14,096.00	\$15,662.00	11.11%	\$36,384	\$8,428	\$44,812	\$46,378	\$60,474	Staff recommends approval of \$1,566 from the Southwest Basin Account, and \$15,662 from the Statewide Account	Ben Wade	
p	Southwest	Mountain Studies Institute/Upper San Juan Watershed Enhancement Patnrnership	San Juan Integrated Water Management Planning, Phase 3	\$2,462	\$22,151	\$24,613	11.11%	\$73,838	\$23,956	\$97,794	\$76,300	\$122,407	Staff recommends approval of \$2,462 from the Southwest Basin Account, and \$22,151 from the Statewide Account	Andrea Harbin Monahan	
q	Yampa	White River & Douglas Creek Conservation Districts	White River Integrated Water Initiative	\$49,800	\$66,000	\$115,800	75.45%	\$7,000	\$29,200	\$36,200	\$86,000	\$158,700	Staff recommends approval of \$49,800 from the Yampa/White/Green Basin Account, and \$66,000 from the Statewide Account	Chris Sturm	

													Remaining Statewide Account Balance (if all requests approved)
	Basin	Basin Account Requests	Statewide Account Requests	Total Requests	Current Basin Account Balances	Remaining Basin Account Balances (if all requests approved)	Current Statewide Account Balance						
	Arkansas Basin	\$5,000	\$4,000	\$9,000	\$432,246	\$427,246							
	Colorado Basin	\$45,750	\$102,186	\$147,936	\$336,616	\$290,866							
	Gunnson Basin	\$5,000.00	\$4,000.00	\$9,000.00	\$367,438	\$362,438							
	Metro	\$117,500.00	\$66,500.00	\$184,000.00	\$789,594	\$672,094							
	North Platte	\$0.00	\$0.00	\$0.00	\$992,165	\$992,165	\$5,835,798.00						
	Rio Grande	\$0.00	\$0.00	\$0.00	\$251,347	\$251,347							
	Southwest	\$5,748.00	\$53,427.00	\$59,175.00	\$443,251	\$437,503							
	South Platte	\$121,000.00	\$106,500.00	\$227,500.00	\$626,865	\$505,865							
	Yampa/White/Green	\$49,800.00	\$66,000.00	\$115,800.00	\$743,291	\$693,491							
	Water Supply Reserve Fund Total Requests	\$349,798	\$402,613.00	\$752,411.00	\$4,982,813	\$4,633,015							

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 10-11, 2021
Consent Agenda Item 2(a)**

Applicant & Grantee: Northern Colorado Water Conservancy District

Water Activity Name: Colorado Airborne Snow Observatory Expansion Plan

Water Activity Purpose: Agricultural, Education/Outreach, Municipal/Industrial, Nonconsumptive (Environmental & Recreational) - Study

County: Multiple counties in listed Basins

Drainage Basin: Arkansas, Colorado, Gunnison, South Platte

Water Source: Multiple sources in each River Basin

Amount Requested: \$5,000 Arkansas Basin Account
\$5,000 Colorado Basin Account
\$5,000 Gunnison Basin Account
\$5,000 Metro Basin Account
\$5,000 South Platte Basin Account
\$20,000 Statewide Account
\$45,000 Total Request

Matching Funds: **Basin Account Match = \$25,000**

- 125% of statewide request (meets 10% min)

Applicant & 3rd Party Match (in-kind) = \$44,000

- 220% of the statewide request (meets 10% min)

Total Match (Basin request & Applicant Match) = \$69,000

- 347% of the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$5,000 from the Arkansas, Colorado, Gunnison, Metro & South Platte Basin Accounts and up to \$20,000 from the Statewide Account to help fund the project: Colorado Airborne Snow Observatory Expansion Plan

Water Activity Summary: Through pilot studies for Denver Water and in the Gunnison Basin, the Airborne Snow Observatories (ASO) has proven to be a powerful new tool for snowpack monitoring and operational water management decisions. To date, the ASO pilot projects in Colorado have been geographically scattered and lack consistent funding. A geographically expanded Colorado ASO program—with a consistent funding plan—will revolutionize water management in Colorado. There remain barriers, however, to widespread adoption and consistent funding of ASO. If approved, WSRF funds will assist in addressing those barriers and provide a roadmap to an expanded, collaborative Colorado ASO program that is independent of annually-variable project funds.

The applicant believes this project will demonstrate the value of an expanded ASO program, identify logical basin groups to fly each year and potential sustainable funding options, provide forecasted ASO costs, and provide presentation materials for reaching out to stakeholders to turn the roadmap into action. The applicants believes a detailed ASO expansion roadmap is the key to overcoming challenges in uniting water partners throughout Colorado to develop a sustainable ASO program that aligns with Colorado's tradition of being an internationally recognized leader in water management.

Discussion: This effort will assist meeting Basin Roundtable goals as well as aligning with actions identified in Section H of the Water Plan.

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

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-Kind	Total	Status
Northern Water	\$0	\$5,000	\$5,000	Secured
Denver Water	\$0	\$10,000	\$10,000	Secured
Airborne Snow Observatories, Inc.	\$0	\$5,000	\$5,000	Secured
Collaborative Workgroup (<i>Colorado Springs Utilities, City of Aspen, City of Fort Collins, Colorado River District, City of Boulder, City of Greeley, Thornton Water, Pueblo Water, Eagle River Water & Sanitation District, Aurora Water, City of Westminster, and the Ruedi Water and Power Authority</i>)	\$0	\$24,000	\$24,000	Secured
Sub Total Matching Funds	\$0	\$44,000	\$44,000	
WSRF Arkansas Basin Account	\$5,000	\$0	\$5,000	Secured
WSRF Colorado Basin Account	\$5,000	\$0	\$5,000	Secured
WSRF Gunnison Basin Account	\$5,000	\$0	\$5,000	Secured
WSRF Metro Basin Account	\$5,000	\$0	\$5,000	Secured
WSRF South Platte Basin Account	\$5,000	\$0	\$5,000	Secured
WSRF Statewide Account	\$20,000	\$0	\$20,000	
Sub Total WSRF Funds	\$45,000	\$0	\$45,000	
Total Project Costs	\$45,000	\$44,000	\$89,000	

CWCB Project Manager: Erik Skeie

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 10-11, 2021
Consent Agenda Item 2(b)**

Applicant & Grantee: Colorado Ag Water Alliance

Water Activity Name: Outreach & Capacity Building for Ag Water Projects

Water Activity Purpose: Education/Outreach - Implementation

County: All counties in the Colorado River Basin

Drainage Basin: Colorado River

Water Source: N/A

Amount Requested: \$5,750 Colorado Basin Account
\$13,186 Statewide Account
\$18,936 Total Request

Matching Funds: **Basin Account Match = \$5,750**

- 43.6% of statewide request (meets 10% min)

Applicant & 3rd Party Match (in-kind) = \$55,734

- 422% of the statewide request (meets 10% min)

Total Match (Basin request & Applicant Match) = \$61,484

- 466% of the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$5,750 from the Colorado Basin Account and up to \$13,186 from the Statewide Account to help fund the project: Outreach & Capacity Building for Ag Water Projects

Water Activity Summary: If approved, Colorado Ag Water Alliance will be using grant funds to conduct outreach to farmers and ranchers specifically in the Colorado River Basin. The applicant has previously received additional CWCB funds to reach farmers and ranchers in other basins. The proposed outreach includes two regional workshops that involve 50-100 attendees with an agenda of speakers. The subject matter would help to increase producer knowledge on issues including water quality issues, developing and funding ditch inventories, and how to find and secure financial assistance through grants or loans for irrigation projects. As in previous outreach efforts, the applicant will be adhering to current COVID public health orders in their outreach.

Discussion: This effort is consistent with the Water Plan Education call for the “education for farmers on available incentives for on-farm implementation of agricultural conservation measures, water sharing opportunities, and other tools available to growers”. This project

also aligns the Colorado Basin Implementation Plan to sustain, protect, and promote agriculture.

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

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-Kind	Total	Status
CWCB Water Plan Grant (Awarded in 2019)	\$12,734	\$0	\$12,734	Secured
Walton Family Foundation	\$15,000	\$0	\$15,000	Secured
CO Dept. of Public Health & Environment	\$4,500	\$0	\$4,500	Secured
Colorado River Water Conservation District	\$4,000	\$0	\$4,000	Secured
South Platte Basin Account (Awarded in 2020)	\$17,750	\$0	\$17,750	Secured
Colorado Ag Water Alliance	\$1,750	\$0	\$1,750	Secured
Sub-Total Matching Funds	\$55,734	\$0	\$55,734	
WSRF Colorado Basin Account	\$5,750	\$0	\$5,750	Secured
WSRF Statewide Account	\$13,186	\$0	\$13,186	
Sub-Total WSRF Funds	\$18,936	\$0	\$18,936	
Total Project Costs	\$74,670	\$0	\$74,670	

CWCB Project Manager: Ben Wade

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 10-11, 2021
Consent Agenda Item 2(c)**

Applicant & Grantee: Charles F. Perry

Water Activity Name: The Toponas Project: Phase 1 Continued: 2020 HDPE Install

Water Activity Purpose: Agricultural - Implementation

County: Routt

Drainage Basin: Colorado River

Water Source: Toponas Creek

Amount Requested: \$25,000 Colorado Basin Account
\$25,000 Total Request

Matching Funds: **Basin Account Match = \$20,000 (cash)**
• 44.4% of Total Project Cost (meets 10% min)

Staff Recommendation:	
Staff recommends approval of up to \$25,000 from the Colorado Basin Account to help fund the project: The Toponas Project: Phase 1 Continued: 2020 HDPE Install	

Water Activity Summary: This proposal is a continuation of a previously supported WSRF grant approved by the CWCB Board in July 2019 to make improvements to Toponas Rock Reservoir in Routt County. Funds have been used for spillway repairs deemed mandatory by Division of Water Resources, Division 5, as a result of Spring 2019 and 2020 runoff damage to address safety concerns and deferred maintenance. The current request will help to fund the installation of a 80-100 foot pipeline with HDPE 30 inch pipe to preserve the 2018-2019 construction of their splash pad.

Toponas Rock Reservoir is a large body of water on the State School Section. The Perry's own the majority share the 1st fill and all of the 2nd fill (up to 262 AF annually). Production includes 400 acres of hay production under irrigation which includes two neighboring ranches (leased), along with grazing areas on one state land board parcel. The State Engineer's Office have instructed Perry Ranch that mandatory repairs exceeding \$40,000 will need to take place to prevent future erosion and worsening the head cutting underneath the stilling basin installed in 2018. These improvements will help support the irrigation of approximately 400 acres of hay fields and support grazing on approximately 1,000 acres of the Perry Ranch.

Discussion: The Toponas Project proposal is consistent with the Colorado Roundtable's Basin Implementation Plan, in particular, its objectives of sustaining agriculture and maintaining existing infrastructure for the maximum utilization of the associated water rights.

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

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-Kind	Total	Status
Chuck Perry	\$10,000	\$0	\$10,000	Secured
Marissa Perry	\$10,000	\$0	\$10,000	Secured
Sub-Total Matching Funds	\$20,000	\$0	\$20,000	
WSRF Colorado Basin Account	\$25,000	\$0	\$25,000	Secured
Total Project Costs	\$45,000	\$0	\$45,000	

CWCB Project Manager: Ben Wade

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 10-11, 2021
Consent Agenda Item 2(d)**

Applicant & Grantee: City of Glenwood Springs

Water Activity Name: Three Mile Creek Confluence Restoration Project

Water Activity Purpose: Nonconsumptive (Environmental & Recreational) and Education & Outreach - Implementation

County: Garfield County

Drainage Basin: Colorado River

Water Source: Three Mile Creek

Amount Requested: \$10,000 Colorado Basin Account
\$85,000 Statewide Account
\$95,000 Total Request

Matching Funds: **Basin Account Match = \$10,000**

- 11.7% of statewide request (meets 10% min)

Applicant & 3rd Party Match (\$120,000 cash & \$25,750 in-kind) = \$145,750

- 171% of the statewide request (meets 10% min)

Total Match (Basin request & Applicant Match) = \$155,750

- 183% of the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$10,000 from the Colorado Basin Account and up to \$85,000 from the Statewide Account to help fund the project: Three Mile Creek Confluence Restoration Project

Water Activity Summary: The Three Mile Creek Confluence in southern Glenwood Springs is a heavily used natural area that has been degraded over time due to increasing recreational use and pedestrian traffic.

The City of Glenwood Springs, in partnership and input from many local stakeholders has identified improvements that will allow the space to be enjoyed by visitors while also protecting the area's ecological diversity: stabilization and ecological restoration of over 500 linear feet of bio-engineered bank stabilization, reestablishing native riparian vegetation by planting over 30,000 square feet of trees and shrubs, installing more than 500 linear feet of fencing to reduce the impact of pets and pedestrians, removing a large number of invasive species, restoring over 8,000 square feet of wetland/riparian areas, and multiple new signs that will educate the public on the importance of a healthy riparian ecosystem and spawning restrictions associated with sensitive confluences.

The proposed work as part of this grant is a subset of the complete project due to funding limitations, but the overall intent of the WSRF grant funding will be to stabilize banks and reestablish a healthy ecosystem at a sensitive stream confluence. The applicant has secured additional CWCB Watershed Restoration funding.

Discussion: The proposed project furthers the Colorado Basin Roundtable's stated objective in its Basin Implementation Plan of protecting and restoring healthy streams, rivers, lakes, and riparian areas.

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

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-Kind	Total	Status
City of Glenwood Springs, River Commission & Designers	\$35,000	\$25,750	\$60,750	Secured
CWCB Watershed Restoration Program	\$85,000	\$0	\$85,000	Secured
Sub-Total Matching Funds	\$120,000	\$25,750	\$145,750	
WSRF Colorado Basin Account	\$10,000	\$0	\$10,000	Secured
WSRF Statewide Account	\$85,000	\$0	\$85,000	
Sub-Total WSRF Funds	\$95,000	\$0	\$95,000	
Total Project Costs	\$215,000	\$25,750	\$240,750	

CWCB Project Manager: Chris Sturm

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 10-11, 2021
Consent Agenda Item 2(e)**

Applicant & Grantee: City of Thornton

Water Activity Name: Thornton Northern Properties Stewardship Plan (NPSP):
Land Use and Water Optimization Study

Water Activity Purpose: Agricultural, Needs Assessment, and Nonconsumptive
(Environmental) - Study

County: Larimer & Weld Counties

Drainage Basin: South Platte

Water Source: South Platte River

Amount Requested: \$25,000 Metro Basin Account
\$25,000 South Platte Basin Account
\$50,000 Statewide Account
\$100,000 Total Request

Matching Funds: **Basin Account Match = \$50,000**
• 100% of statewide request (meets 10% min)
Applicant & 3rd Party Match = \$200,000 (cash)
• 400% of the statewide request (meets 10% min)
Total Match (Basin request & Applicant Match) = \$350,000
• 700% of the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$25,000 from the Metro Basin Account, up to \$25,000 from the South Platte Basin Account and up to \$50,000 from the Statewide Account to help fund the project: Thornton Northern Properties Stewardship Plan (NPSP): Land Use and Water Optimization Study

Water Activity Summary: In 1985 and 1986, the City of Thornton purchased farmland in Larimer and Weld Counties and the water rights associated with the farms. The water rights will provide Thornton's long-range supply of municipal water. As of 2018, Thornton owns 18,751 acres in Larimer and Weld Counties. In Weld County Thornton owns one hundred four (104) farms on 17,161 acres and in Larimer County Thornton owns eight (8) farms on 1,590 acres. While the City of Thornton has been working to meet requirements imposed by the Water Court decree, the city is raising funds to support a voluntary, community-driven effort that is not required by the decree or county permitting processes.

If approved, the applicant would use WRSF funds to establish a collaborative, community-driven effort to: (a) advance a land-use planning process that bridges social, economic,

environmental, water, and land use silos; and (b) explore ways the continued irrigation provision in Thornton's decree can help agriculture continue to thrive.

Grant funds would be used to develop two products: A Regional Land Use Assessment and a Water Optimization Study.

Discussion: The project aligns with the Metro Roundtable's Implementation of Identified Projects and Processes (IPP). Thornton's Northern Project is an IPP, and the study proposed will allow Thornton to elevate what could be a typical buy and dry / pipeline IPP into a project that aligns with the Metro Roundtable's vision. The project will also help advance the following Measurable Outcomes in the South Platte Basin Implementation Plan: Agricultural MO#1: Support strategies that reduce traditional permanent dry-up of irrigated acreage; Agricultural MO#4: Develop local tools and political/community support for tools to sustain irrigated farmland; IPP Implementation MO#1: Maximize implementation of the updated IPP list.

The proposed project is also consistent with Colorado's Water Plan grant criteria the Statewide Long-term Goal of Meet Colorado's Agricultural Needs by "*1) Ensuring that irrigated agriculture remains a viable statewide economic driver and supports food security, jobs and rural communities and protects private property rights*".

Issues/Additional Needs: The applicant will need to secure matching funds prior to contracting. No other issues or additional needs have been identified.

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-Kind	Total	Status
City of Thornton	\$75,000	\$0	\$75,000	Secured
CWCB Water Plan Grant	\$100,000	\$0	\$100,000	Pending
Dept. of Local Affairs	\$125,000	\$0	\$125,000	Pending
Sub Total Matching Funds	\$300,000	\$0	\$300,000	
WSRF Metro Basin Account	\$25,000	\$0	\$25,000	Secured
WSRF South Platte Basin Account	\$25,000	\$0	\$25,000	Secured
WSRF Statewide Account	\$50,000	\$0	\$50,000	
Sub-Total WSRF Funds	\$100,000	\$0	\$100,000	
Total Project Costs	\$400,000	\$0	\$400,000	

CWCB Project Manager: Alex Funk

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 10-11, 2021
Consent Agenda Item 2(f)**

Applicant & Grantee: Independence Water and Sanitation District

Water Activity Name: Regulation 84 Edible Crop Irrigation Public Education and Outreach

Water Activity Purpose: Education & Outreach - Implementation

County: Adams, Arapahoe, Denver, Douglas El Paso, and Elbert

Drainage Basin: South Platte & Arkansas

Water Source: Reclaimed Water

Amount Requested: \$5,000 Metro Basin Account
\$5,000 South Platte Basin Account
\$15,000 Statewide Account
\$25,000 Total Request

Matching Funds: **Basin Account Match = \$10,000**

- 66.7% of statewide request (meets 10% min)

Applicant & 3rd Party Match = \$56,600 (\$40,600 cash & \$16,000 in-kind)

- 373% of the statewide request (meets 10% min)

Total Match (Basin request & Applicant Match) = \$66,600

- 440% of the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$5,000 from the Metro Basin Account, up to \$5,000 from the South Platte Basin Account and up to \$15,000 from the Statewide Account to help fund the project: Regulation 84 Edible Crop Irrigation Public Education and Outreach

Water Activity Summary: If approved, the applicants will use grant funds to develop materials, training guidance, a video, and other resources to help utilities educate potential customers on the safe and effective use of reclaimed water for edible crop irrigation.

The project will create educational and training guide templates for three user types (commercial, non-commercial, and residential). These templates will ensure that all the necessary components are included to comply with the Colorado Department of Public Health and Environment's (CDPHE) Regulation 84 and can be edited for the needs of individual end users. The templates will ensure that required content is in place and also provide recommended items that the end user may choose to retain, delete, or modify. Lastly, a video will be created that educates all users about safe irrigation practices using reclaimed water.

The process will engage utilities, end users, and CDPHE to help develop templates that meet the needs of all stakeholders. WSRF funds will be used to conduct stakeholder meetings, review other state's educational materials, create templates for review and comment, finalize the templates, create a video, and distribute them to potential users. Due to the nature of reclaimed water, the potential users are primarily within the Metro, South Platte, and Arkansas basins.

Discussion: This proposal meets the South Platte Basin Implementation Plan's goals of reducing water consumption rates and promoting water conservation and reuse. The proposal also will further advance Colorado's Water Plan conservation and reuse objectives.

Issues/Additional Needs: The applicant will need to submit their matching commitment letters prior to contracting. No other issues or additional needs have been identified.

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-Kind	Total	Status
Independence Water & Sanitation District	\$8,000	\$0	\$8,000	Secured
CWCB Water Plan Grant	\$32,600	\$0	\$32,600	Pending
IWSD, Denver Water, Colorado Springs Utilities, CDPHE	\$0	\$16,000	\$16,000	Secured
Sub-Total Matching Funds	\$40,600	\$16,000	\$56,600	
WSRF Metro Basin Account	\$5,000	\$0	\$5,000	Secured
WSRF South Platte Basin Account	\$5,000	\$0	\$5,000	Secured
WSRF Statewide Account	\$15,000	\$0	\$15,000	
Sub Total	\$25,000	\$0	\$25,000	
Total Project Costs	\$65,600	\$16,000	\$81,600	

CWCB Project Manager: Ben Wade

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 10-11, 2021
Consent Agenda Item 2(g)**

Applicant & Grantee: Colorado Watershed Assembly
Water Activity Name: Water Education Coordination
Water Activity Purpose: Education & Outreach - Implementation
County: All Counties in the Metro/South Platte Basins
Drainage Basin: South Platte
Water Source: N/A
Amount Requested: \$18,500 Metro Basin Account
\$18,500 South Platte Basin Account
\$37,000 Total Request

Matching Funds: **Total Match = \$12,500 (\$9,250 cash & \$3,250 in-kind)**
• 25% of total project costs (meets 25% min)

Staff Recommendation:
Staff recommends approval of up to \$18,500 from the Metro Basin Account, and up to \$18,500 from the South Platte Basin Account to help fund the project: Water Education Coordination

Water Activity Summary: If approved, WSRF funds would help the applicant provide services to the South Platte Basin Roundtable and the Metro Roundtable and promoting the Basin Implementation Plan (BIP) and the Colorado Water Plan (CWP). Funding would help achieve the goals identified in the Metro and South Platte Basins joint Education Action Plan (EAP), and to support the efforts of the Education Committee, the Environment and Recreation Committee and other Committees created to facilitate the Basin Implementation Plan Update.

The 2021 Education Action Plan has identified tasks which have formed the basis for Public Education Participation and Outreach (PEPO) for the two Roundtables since 2018. These tasks include: Coordination and Facilitation; engage and inform Roundtable leadership, BIP Work Groups, PEPO liaisons and SWEAP Communication; promote the seven minute video “South Platte River Synergies”; maintain and update southplattebasin.com website, social media curation; creating articles for publication and reports to Roundtables, PEPO and CWCB; leveraging existing outreach network and messaging to promote the goals of the Basin Implementation Plan and the Colorado Water Plan; curate social media posts and respond to stakeholder inquiries. Finally, the applicant proposes utilizing printed materials and other social media to engage rural and agricultural communities.

Discussion: This proposal meets the South Platte Basin Implementation Plan's education and outreach goals. The proposal also will further advance Colorado's Water Plan to engage and educate Coloradoans regarding critical water issues.

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

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-Kind	Total	Status
Cherry Creek Stewardship Partners	\$9,250	\$0	\$9,250	Secured
Colorado Watershed Assembly	\$0	\$3,250	\$3,250	Secured
Sub-Total	\$9,250	\$3,250	\$12,500	
WSRF Metro Basin Account	\$18,500	\$0	\$18,500	Secured
WSRF South Platte Basin Account	\$18,500	\$0	\$18,500	Secured
Sub-Total	\$37,000	\$0	\$37,000	
Total Project Costs	\$49,500	\$0	\$49,500	

CWCB Project Manager: Ben Wade

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 10-11, 2021
Consent Agenda Item 2(h)**

Applicant & Grantee: The Water Connection of the Greenway Foundation

Water Activity Name: Nautilus 2

Water Activity Purpose: Education & Outreach, Nonconsumptive (Environmental and Recreational) - Implementation

County: Denver

Drainage Basin: South Platte

Water Source: Chatfield Dam to Sand Creek

Amount Requested: \$25,000 Metro Basin Account
\$10,000 South Platte Basin Account
\$25,000 Statewide Account
\$60,000 Total Request

Matching Funds: **Basin Account Match = \$35,000**
• 140% of statewide request (meets 10% min)
Applicant & 3rd Party Match = \$31,900 (cash)
• 127% of the statewide request (meets 10% min)
Total Match (Basin request & Applicant Match) = \$66,900
• 267% of the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$25,000 from the Metro Basin Account, up to \$10,000 from the South Platte Basin Account and up to \$25,000 from the Statewide Account to help fund the project: Nautilus 2

Water Activity Summary: If approved, the applicant would use WSRF funds to assist in the development of “*Nautilus 2*”, an in-stream trash removal device to be installed and tested in a Metro Denver waterway of the South Platte River within the Chatfield to Sand Creek focus area.

In 2016, the applicant tasked local university students to significantly improve water quality and safety by designing an in-stream trash removal device. A half-scale prototype of the winning design, Nautilus has been successfully collecting trash and debris from the Lower Downtown area of Cherry Creek for over 9 months. The applicant’s vision for Nautilus 2 is to have proof of concept for a cost effective device that can protect and enhance environmental and recreation attributes by collecting in-stream trash.

The goal of developing Nautilus 2 is to improve the environmental health and recreational appeal and safety of Colorado urban waterways. WSRF funding will be used for tasks 1 through 4. This project consists of five main tasks: 1) full evaluation by project partners of Nautilus' performance and next generation design priorities; 2) design drawings for next iteration & feasibility/floodplain impact analysis; 3) fabrication of Nautilus 2; 4) permitting and installation; and 5) educational outreach to businesses, educational institutions, media, and the general public.

Discussion: This proposal meets the South Platte Basin Implementation Plan's goals of maintaining, enhancing and proactively managing water quality for all use classifications as well as helping address the adequacy of domestic and municipal water uses. The proposal also will further advance Colorado's Water Plan healthy watersheds objectives.

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

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-Kind	Total	Status
The Greenway Foundation	\$22,900	\$4,000	\$26,900	Secured
Riverfront Park Community Foundation	\$0	\$5,000	\$5,000	Secured
Sub-Total	\$22,900	\$0	\$31,900	
WSRF Metro Basin Account	\$25,000	\$0	\$25,000	Secured
WSRF South Platte Basin Account	\$10,000	\$0	\$10,000	Secured
WSRF Statewide Account	\$25,000	\$0	\$25,000	
Sub-Total	\$60,000	\$0	\$60,000	
Total Project Costs	\$82,900	\$9,000	\$91,900	

CWCB Project Manager: Ben Wade

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 10-11, 2021
Consent Agenda Item 2(i)**

Applicant & Grantee: Western Resource Advocates

Water Activity Name: Enabling Large-Scale Replacement of Non-Essential Turf

Water Activity Purpose: Education & Outreach, Municipal/Industrial - Study

County: Statewide

Drainage Basin: Statewide

Water Source: N/A

Amount Requested: \$12,500 Metro Basin Account
\$12,500 South Platte Basin Account
\$25,000 Total Request

Matching Funds: **Basin Account Match** = \$446,381 (\$358,406 cash & \$87,975 in-kind)

- 94.6% of total project costs (meets 25% min)

Staff Recommendation:
Staff recommends approval of up to \$12,500 from the Metro Basin Account, and up to \$12,500 from the South Platte Basin Account to help fund the project: Enabling Large-Scale Replacement of Non-Essential Turf

Water Activity Summary: The requested WSRF funds will support the applicant's proposal designed to enable large-scale turf replacement projects that otherwise face an economic barrier to implementation. Project results and information - developed working with South Platte and Metro region project partners - will be applicable and disseminated to communities and others throughout these basins and Colorado more broadly.

The applicant proposes to achieve their goals by: (1) undertaking research and analysis on a suite of finance mechanisms that can be utilized to fund large turf replacement projects; (2) working with partner communities in the South Platte and Metro regions to undertake research and analysis on specific potential pilot projects that include estimated water savings and associated implementation and maintenance costs based on acreage of turf converted, and also conducting a community-wide non-essential turf assessment to give each partner community estimates for potential savings; (3) working with partner communities to identify implementation challenges and pathways, including any legal, policy, and other barriers that may arise with turf projects and related financing; (4) sharing project results with other communities looking to implement similar projects through targeted education and outreach activities, including the importance of landscape

professional certification and water efficient land use codes; and (5) if requested, supporting partner communities in pursuing state and federal loans or grants to further their turf replacement efforts.

Discussion: The project will help advance the South Platte Basin Implementation Plan's by addressing an identifiable water gap, focus on maintaining leadership in water conservation, increased water efficiency and reaching enhanced levels of municipal conservation. The proposal will also further advance Colorado's Water Plan conservation measurable objective.

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

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-Kind	Total	Status
Western Resource Advocates	\$115,657	\$0	\$115,657	Secured
CWCB Water Plan Grant	\$259,887	\$0	\$259,887	Pending
Water Now Alliance	\$0	\$76,645	\$76,645	Secured
Resource Central	\$0	\$7,000	\$7,000	Secured
University of Colorado - Denver	\$0	\$4,330	\$4,330	Secured
Northern Colorado Conservancy District	\$10,000	\$0	\$10,000	Secured
Additional Funders	\$21,359	\$0	\$21,359	Pending
Sub Total Matching Funds	\$406,903	\$87,975	\$494,878	
WSRF Metro Basin Account	\$12,500	\$0	\$12,500	Secured
WSRF South Platte Basin Account	\$12,500	\$0	\$12,500	Secured
Sub Total WSRF Funds	\$25,000	\$0	\$25,000	
Total Project Costs	\$431,903	\$87,975	\$519,878	

CWCB Project Manager: Kevin Reidy

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 10-11, 2021
Consent Agenda Item 2(j)**

Applicant & Grantee: Open Water Foundation

Water Activity Name: River Basin Information Websites

Water Activity Purpose: Agricultural, Education/Outreach, Municipal/Industrial, Needs Assessment, Nonconsumptive (Environmental & Recreational) - Implementation

County: Boulder, Larimer, Weld

Drainage Basin: South Platte

Water Source: Poudre River

Amount Requested: \$10,000 Metro Basin Account
\$20,000 South Platte Basin Account
\$15,000 Statewide Account
\$45,000 Total Request

Matching Funds: Basin Account Match = \$30,000

- 200% of statewide request (meets 10% min)

Applicant & 3rd Party Match (in-kind) = \$125,000

- 833% of the statewide request (meets 10% min)

Total Match (Basin request & Applicant Match) = \$155,000

- 1,033% of the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$10,000 from each of the Metro Basin Account, up to \$20,000 from the South Platte Basin Account and up to \$15,000 from the Statewide Account to help fund the project: River Basin Information Websites

Water Activity Summary: The applicants proposes to utilize WSRF funds to assist in fully implement the “*Poudre Basin Information*” website in order to provide cross-jurisdictional information related to water issues in the basin. The applicant has developed an initial website, (<http://poudre.openwaterfoundation.org/latest>) which integrates information from many data sources including local up to federal datasets. The information can be used for education and to inform planning and operational decisions.

The applicant states the website will be designed to be a community resource with a scope beyond any single project or organization and can serve many entities. All software, data, analysis workflows, and documentation are open source and support collaboration. The grant funding obtained, including matching funds, will allow full implementation of the Poudre Basin Information website as well as implementing additional websites for basins within the larger South Platte Basin, such as Big Thompson and Saint Vrain. These basins have been impacted by wildfires, floods, and droughts and also involve issues for multiple

sectors (municipal, agricultural, environment, recreation, industry). Basin websites will be linked to the South Platte Roundtable website to facilitate use by Roundtable members and the public.

Discussion: According to the Roundtables letter of support for the this project, it has been stated that providing the data and information will inform organizations and individuals about many complex water issues in order to achieve the goals of the South Platte Basin Implementation Plan and Colorado Water Plan. The initial focus on the Poudre Basin will increase the effectiveness and efficiency of implementing multi-purpose water projects that address the water supply gap in the basin. The project will also help with collaboration on important issues such as wildfire mitigation, drought and flood response, sustainable agriculture, and environmental flows. The project will support water education and public engagement on water issues. The results of the project can be scaled to other basins within the South Platte and Metro Roundtable areas and statewide.

Issues/Additional Needs: The applicant will need to secure matching funds for the project prior to contracting. No other issues or additional needs have been identified.

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-Kind	Total	Status
Open Water Foundation	\$0	\$50,000	\$50,000	Secured
GoCode Colorado Business Challenge Award	\$2,000	\$0	\$2,000	Secured
Project Collaborators/Grant Awards	\$48,000	\$0	\$48,000	Pending
CWCB Water Plan Grant	\$25,000	\$0	\$25,000	Pending
Sub-Total Matching Funds	\$75,000	\$50,000	\$125,000	
WSRF Metro Basin Account	\$10,000	\$0	\$10,000	Secured
WSRF South Platte Basin Account	\$20,000	\$0	\$20,000	Secured
WSRF Statewide Account	\$15,000	\$0	\$15,000	
Sub Total	\$45,000	\$0	\$45,000	
Total Project Costs	\$120,000	\$50,000	\$170,000	

CWCB Project Manager: Carolyn Kemp

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 10-11, 2021
Consent Agenda Item 2(k)**

Applicant & Grantee: The Water Connection of the Greenway Foundation

Water Activity Name: Clean River Design Challenge

Water Activity Purpose: Education & Outreach, Nonconsumptive (Environmental and Recreational) - Implementation

County: Denver, El Paso, Jefferson, and Larimer

Drainage Basin: South Platte

Water Source: South Platte River

Amount Requested: \$6,500 Metro Basin Account
\$10,000 Statewide Account
\$16,500 Total Request

Matching Funds: Basin Account Match = \$6,500

- 65% of statewide request (meets 10% min)

Applicant & 3rd Party Match = \$86,930 (\$84,880 cash & \$2,500 in-kind)

- 869% of the statewide request (meets 10% min)

Total Match (Basin request & Applicant Match) = \$91,380

- 914% of the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$6,500 from the Metro Basin Account and up to \$10,000 from the Statewide Account to help fund the project: Clean River Design Challenge

Water Activity Summary: If approved, the applicant will use WSRF funds to conduct two Clean River Design Challenges (CRDCs), which is a competition for innovative solutions to urban waterway pollution. These two-semester long competitions are open to undergraduate and graduate students attending Colorado universities and colleges. The competitions are focused on the reduction of E. coli and excess nutrients.

The first semester of the competition is dedicated to research and idea generation, with opportunities for feedback from professionals recruited by the applicant. The second semester focuses on solution design, proof of effectiveness, and evaluation of environmental economic considerations, and development of a conceptual business plan. At the end of the second semester, the teams present their solution in the form of a proposal for a product or service accompanied by a business plan for implementation. A panel of expert judges will select the top three teams to receive a modest cash prize (no

grant funds will be used for cash prizes). The first place team each year will be invited to participate in Trout Tank H2O, a business accelerator co-hosted by the Denver Metro Chamber of Commerce and TAP-IN (supported through a CWCB Water Plan grant).

Discussion: This proposal meets the South Platte Basin Implementation Plan's goals of maintaining, enhancing and proactively managing water quality for all use classifications as well as helping address the adequacy of domestic and municipal water uses. The proposal also will further advance Colorado's Water Plan healthy watersheds objectives.

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

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-Kind	Total	Status
The Greenway Foundation	\$39,225	\$2,500	\$41,275	Secured
CWCB Water Plan Grant	\$45,655	\$0	\$45,655	Pending
Sub-Total	\$84,880	\$0	\$86,930	
WSRF Metro Basin Account	\$6,500	\$0	\$6,500	Secured
WSRF Statewide Account	\$10,000	\$0	\$10,000	
Sub-Total	\$16,500	\$0	\$16,000	
Total Project Costs	\$101,380	\$2,500	\$103,880	

CWCB Project Manager: Ben Wade

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 10-11, 2021
Consent Agenda Item 2(l)**

Applicant & Grantee: West Denver Trout Unlimited (Chapter #013)
Water Activity Name: Clear Creek Integrated Water Management Plan Phase 1
Water Activity Purpose: Agricultural, Education & Outreach,
Municipal/Industrial, Needs Assessment, Nonconsumptive
(Environmental and Recreational) - Study
County: Adams, Clear Creek, and Jefferson
Drainage Basin: South Platte
Water Source: Clear Creek
Amount Requested: \$10,000 Metro Basin Account
\$10,000 Total Request
Matching Funds: **Basin Account Match = \$34,000**

- 77% of total project costs (meets 25% min)

Staff Recommendation:	
Staff recommends approval of up to \$10,000 from the Metro Basin Account to help fund the project: Clear Creek Integrated Water Management Plan Phase 1	

Water Activity Summary: If approved, the applicant will use WSRF funds to begin the initial development of an Integrated Water Management Plan (IWMP) for the Clear Creek Basin.

Phase 1 of the Clear Creek IWMP will formalize the stakeholder group through outreach and engagement, define the purpose and scope of the project, research and document existing plans within the basin to identify common goals, and assess current conditions. Project participants anticipate additional phases of the project to identify, develop, and prioritize management actions envisioned during Phase 1.

The project is located within the Clear Creek watershed. Clear Creek is tributary to the South Platte River, Water District 7, Division 1. The Clear Creek IWMP is an exploratory plan with a diverse stakeholder group representing agricultural users, municipal water use, industry, environmental and recreation, and the general community. The applicant believes stakeholders will bring diverse expectations of the plan, which will lead to multi-objective goals and projects to develop a collaborative and inclusive management plan for the Clear Creek basin.

Discussion: This project aligns with a goal in the Water Plan to promote healthy river systems and to protect water rights, while advancing watershed health and recreation opportunities and helps to meet a measurable objective to cover 80 percent of the locally prioritized lists of rivers with stream management plans, and 80 percent of critical watersheds with watershed protection plans, all by 2030.”

The project also aligns with the South Platte Basin Implementation Plan goal to “fully recognize the importance of, and support the development of environmental and recreational projects and multipurpose projects that support water availability for ecologically and economically important habitats and focus areas.”

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

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-Kind	Total	Status
West Denver Trout Unlimited	\$5,000	\$5,000	\$10,000	Secured
CWCB Watershed Restoration Grant	\$22,000	\$0	\$22,000	Secured
Colorado Trout Unlimited	\$2,000	\$0	\$2,000	Secured
Sub-Total Matching Funds	\$29,000	\$5,000	\$34,000	
WSRF Metro Basin Account	\$10,000	\$0	\$10,000	Secured
Total Project Costs	\$39,000	\$5,000	\$44,000	

CWCB Project Manager: Chris Sturm

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 10-11, 2021
Consent Agenda Item 2(m)**

Applicant & Grantee: Town of Erie

Water Activity Name: Horizontal Well Pilot Project

Water Activity Purpose: Education & Outreach, Municipal/Industrial - Study & Implementation

County: Weld

Drainage Basin: South Platte

Water Source: Boulder Creek

Amount Requested: \$25,000 South Platte Basin Account
\$50,000 Statewide Account
\$75,000 Total Request

Matching Funds: Basin Account Match = \$25,000

- 50% of statewide request (meets 10% min)

Applicant & 3rd Party Match = \$1,800,000 (cash)

- 36 times of the statewide request (meets 10% min)

Total Match (Basin request & Applicant Match) = \$1,825,000

- 36.5 times the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$25,000 from the South Platte Basin Account and \$50,000 from the Statewide Account to help fund the project: Horizontal Well Pilot Project

Water Activity Summary: The Town of Erie is planning the construction and pilot testing of a Horizontally Directionally Drilled (HDD) well to divert Boulder Creek water while gaining water quality improvements through riverbank filtration (RBF) processes. HDD wells are innovative alternatives to vertical wells that address operational and maintenance challenges associated with thin alluvial aquifers in areas impacted by upstream discharge of wastewater treatment plant effluent. Horizontal wells typically have much higher yields than vertical wells in these conditions, which are common in the South Platte and Arkansas basins. Erie will initially put the water to beneficial use by pumping raw water augmented with Windy Gap effluent into a non-potable water pipeline for municipal use. Water rights and augmentation plan applications have been submitted, and a Substitute Water Supply Plan will be obtained to initiate the project.

If approved, the WSRF Grant funding would be used for partial funding of the study portion, Task 3, which includes pilot operations, the development of a best practices public document and a community workshop. (This request is in addition to a previously approved Water Plan grant the Board for the same task back in November 2019.)

Discussion: This project aligns with the South Platte Basin Implementation Plan focus on improving water efficiency, sustaining irrigated agriculture, and promoting education. As stated in the Roundtable approval letter, this proposal can also advance the Water Plan's objectives of meeting water gaps, developing efficiency, agricultural viability and encouraging reuse.

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

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-Kind	Total	Status
Town of Erie	\$1,800,000	\$0	\$1,800,000	Secured
Sub-Total	\$1,800,000	\$0	\$1,800,000	
WSRF Metro Basin Account	\$25,000	\$0	\$25,000	Secured
WSRF Statewide Account	\$50,000		\$50,000	
Sub-Total	\$75,000	\$0	\$75,000	
Total Project Costs	\$1,875,000	\$0	\$1,875,000	

CWCB Project Manager: Cole Bedford

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 10-11, 2021
Consent Agenda Item 2(n)**

Applicant & Grantee: Mountain Studies Institute

Water Activity Name: 416-Fire Aquatic Monitoring Year 3

Water Activity Purpose: Agricultural, Education & Outreach, Municipal/Industrial Needs Assessment, Nonconsumptive (Environmental & Recreational) - Study

County: La Plata

Drainage Basin: San Juan River Basin

Water Source: Animas River

Amount Requested: \$1,720 Southwest Basin Account
\$17,180 Statewide Account
\$18,900 Total Request

Matching Funds: **Basin Account Match = \$1,720**

- 10% of statewide request (meets 10% min)

Applicant & 3rd Party Match = \$11,500 (cash)

- 67% of the statewide request (meets 10% min)

Total Match (Basin request & Applicant Match) = \$13,220

- 77% of the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$1,720 from the Southwest Basin Account and \$17,180 from the Statewide Account to help fund the project: 416-Fire Aquatic Monitoring Year 3

Water Activity Summary: Following the 416-Fire, the applicant formed a research team made up of scientists from the Mountain Studies Institute (MSI), Colorado School of Mines, and US Forest Service Rocky Mountain Research Station to investigate impacts and recovery of water quality and aquatic life. Even though there are signs of recovery in the two years after the fire (e.g., recovering benthic communities, less elevated water quality contaminants), it is unknown how these impacts may persist into 2021 and when full recovery will occur.

Southwest Colorado experienced a weak monsoon season in 2019 and 2020. With the possibility of a stronger monsoon season in 2021, there is a need to continue monitoring downstream of the 416-burn area to characterize further impacts to water quality and aquatic life.

The applicant is requesting WSRF funding to continue Year 3 research efforts to: Evaluate water quality impacts from the 416-Fire in context of the use of these waters for irrigation, water supply, recreation, and aquatic life; and document the recovery of water quality and aquatic life following the 416-Fire to share with concerned public members and more broadly understand the recovery of river health after a wildfire.

Discussion: This project falls under IPP 1-MB of the Southwest Basin Implementation Plan. It also meets the measurable goals or outcomes of the BIP by supporting specific and unique IPPs important to maintaining the quality of life in this region; promotes dialogue, foster cooperation and resolve conflict among water interests; maintains watershed health; provide safe drinking water; maintain, protect and enhance recreational and economic values; encourage and support restoration, recovery and sustainability of threatened and imperiled aquatic and dependent species; protect, maintain, monitor and improve the condition and natural function of streams, lakes, wetlands, and riparian areas; and monitor, protect and improve water for all classified users.

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

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-Kind	Total	Status
City of Durango	\$10,000	\$0	\$10,000	Secured
Animas Water Company	\$500	\$0	\$500	Secured
Community Emergency Relief Fund	\$1,000	\$0	\$1,000	Secured
Sub Total Matching Funds	\$11,500	\$0	\$11,500	
WSRF Southwest Basin Account	\$1,720	\$0	\$1,720	Secured
WSRF Statewide Account	\$17,180	\$0	\$17,180	
Sub Total WSRF Funds	\$18,900	\$0	\$18,900	
Total Project Costs	\$30,400	\$0	\$30,400	

CWCB Project Manager: Ben Wade

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 10-11, 2021
Consent Agenda Item 2(o)**

Applicant & Grantee: Mountain Studies Institute

Water Activity Name: Forests to Faucets: My Water Comes from the San Juan Mountains Teacher Training Workshop Series

Water Activity Purpose: Education & Outreach - Implementation

County: Archuleta, Dolores, and La Plata

Drainage Basin: San Juan River, Mancos/Dolores Basin

Water Source: Las Animas/San Juan River and Mancos/Dolores watersheds

Amount Requested: \$1,566 Southwest Basin Account
\$14,096 Statewide Account
\$15,662 Total Request

Matching Funds: **Basin Account Match = \$1,566**

- 11% of statewide request (meets 10% min)

Applicant & 3rd Party Match = \$63,415 (\$46,559 cash & \$16,856 in-kind)

- 449% of the statewide request (meets 10% min)

Total Match (Basin request & Applicant Match) = \$64,981

- 460% of the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$1,566 from the Southwest Basin Account and \$14,096 from the Statewide Account to help fund the project: Forests to Faucets: My Water Comes from the San Juan Mountains Teacher Training Workshop Series

Water Activity Summary: If approved, WSRF funds would be used to fund the Forests to Faucets Teacher Training Workshop Series 2021-2023. The workshop series will train 15-20 teachers annually to teach their students about the importance of area water supplies and the interconnection of healthy watersheds through a multi-day course, including options for field-based educational tours.

The applicant believes support offered through this workshop is needed now more than ever since the COVID-19 pandemic has put enormous pressures on educators. This project meets the requests of teachers for new non-screen-based educational tools, informed by needs assessment surveys conducted throughout 2020. The applicant states the training empowers educators to include place-based

watershed education in their lesson plans and engage students to think critically about Colorado's water issues. This workshop is appropriate for teachers of K-12 classrooms and rotates over three years between the Animas/San Juan River watershed (Durango and Silverton), the Upper San Juan watershed (Pagosa Springs), and the Mancos/Dolores River watershed (Mancos, Dolores and Cortez). Over the three year project schedule, WSRF funding will help support a total of 45-60 teachers and by extension educate over 900 students in the Southwest Basin.

Discussion: This project aligns with a Water Plan educational goal of educating the public on specific water related issues. It also aligns with the Southwest Basin Roundtable's Education Action Plan of providing water education for constituents in the region. Finally, it aligns with the Basin's Basin Implementation Plan by promoting dialogue, foster cooperation and resolve conflict among water interests.

Issues/Additional Needs: The applicant will need to secure matching funding prior to contracting. No others issues or additional needs have been identified.

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-Kind	Total	Status
Forests 2 Faucets Team	\$28,509	\$3,656	\$32,165	Secured
Content Experts & Donated Space	\$0	\$13,200	\$13,200	Secured
Great Outdoors Colorado	\$5,300	\$0	\$5,300	Pending
Project Partners	\$12,750	\$0	\$12,750	Pending
Sub Total Matching Funds	\$46,559	\$16,856	\$63,415	
WSRF Southwest Basin Account	\$1,566	\$0	\$1,566	Secured
WSRF Statewide Account	\$14,096	\$0	\$14,096	
Sub Total WSRF	\$15,622	\$0	\$15,622	
Total Project Costs	\$62,221	\$16,856	\$79,077	

CWCB Project Manager: Ben Wade

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 10-11, 2021
Consent Agenda Item 2(p)**

Applicant & Grantee: Mountain Studies Institute (on behalf of the Upper San Juan Watershed Enhancement Partnership)

Water Activity Name: San Juan Integrated Water Management Planning, Phase 3

Water Activity Purpose: Agricultural, Education & Outreach, Needs Assessment, Nonconsumptive (Environmental & Recreational) - Study

County: Archuleta, and Mineral

Drainage Basin: San Juan Basin

Water Source: Navajo, Rio Blanco, and San Juan Rivers

Amount Requested: \$2,462 Southwest Basin Account
\$22,151 Statewide Account
\$24,613 Total Request

Matching Funds: **Basin Account Match = \$2,462**

- 11% of statewide request (meets 10% min)

Applicant & 3rd Party Match = \$97,838 (\$73,882 cash & \$23,956 in-kind)

- 441% of the statewide request (meets 10% min)

Total Match (Basin request & Applicant Match) = \$100,300

- 452% of the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$2,462 from the Southwest Basin Account and \$22,151 from the Statewide Account to help fund the project: San Juan Integrated Water Management Planning, Phase 3

Water Activity Summary: If approved, this project proposal will complete a three-phased process to develop a community-driven Integrated Water Management Plan (IWMP) for the upper San Juan River Basin. The applicant states the Basin Implementation Plan (BIP) for the Southwest Basin specifically acknowledges an absence of information about environmental and recreational water supply needs and provides for the development of the missing information through basin-specific assessments. The applicant believes this project addresses this information gap, as well as assessments of agricultural infrastructure needs in the basin. WSRF funding is requested to complete the last step in developing the needs assessment

and identifying cooperative projects and processes that will meet multiple water needs, as contemplated in the BIP.

This proposal will: 1) ensure stakeholder input and scientific analysis guide the planning and decision-making process, 2) expand an agricultural infrastructure needs inventory to the Rio Blanco and Navajo Rivers, and 3) identify and prioritize multi-benefit water projects in an Integrated Water Management Plan.

The project area includes a subset of rivers and streams in Archuleta and Mineral counties, focusing primarily on the upper San Juan River from the Continental Divide to the confluence with Mill Creek. Additionally, the agricultural infrastructure analysis will expand to the Rio Blanco and Navajo River.

Discussion: This project meets with several measureable outcomes in the Southwest Basin Roundtable's Basin Implementation Plan including maintaining watershed health, protecting and enhancing recreational and economic values, encouraging sustainability of imperiled aquatic and riparian dependent species and monitoring and improving water quality for all classified users.

Issues/Additional Needs: The applicant must secure matching funding prior to contracting. No other issues or additional needs have been identified.

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-Kind	Total	Status
Mountain Studies Institute	\$500	\$0	\$500	Secured
Archuleta Co. Board of County Commissioners	\$3,600	\$0	\$3,600	Pending
CWCB Watershed Restoration Grant	\$49,225	\$0	\$49,225	Secured
Pagosa Tourism Board	\$3,600	\$0	\$3,600	Secured
San Juan Water Conservancy District	\$2,000	\$0	\$2,000	Secured
Southwestern Water Conservation District	\$8,100	\$0	\$8,100	Secured
The Nature Conservancy	\$1,000	\$0	\$1,000	Secured
Town of Pagosa Springs	\$3,857	\$0	\$3,857	Secured
Trout Unlimited	\$2,000	\$0	\$2,000	Secured
NRCS, TU, SJWCD, Steering Committee	\$0	\$23,956	\$23,956	Secured
Sub Total Matching Funds	\$73,882	\$23,956	\$97,838	
WSRF Southwest Basin Account	\$2,462	\$0	\$2,462	Secured
WSRF Statewide Account	\$22,151	\$0	\$22,151	
Sub Total WSRF Funds	\$24,613	\$0	\$24,613	
Total Project Costs	\$98,495	\$23,956	\$122,451	

CWCB Project Manager: Andrea Harbin Monahan

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 10-11, 2021
Consent Agenda Item 2(q)**

Applicant & Grantee: White River and Douglas Creek Conservation Districts

Water Activity Name: White River Integrated Water Initiative Phase 2

Water Activity Purpose: Agricultural, Education & Outreach,
Municipal/Industrial, Needs Assessment, and
Nonconsumptive (Environmental & Recreational) - Study

County: Rio Blanco

Drainage Basin: White River Basin

Water Source: White River main stem & Piceance Creek

Amount Requested: \$49,800 Yampa-White-Green Basin Account
\$66,000 Statewide Account
\$115,800 Total Request

Matching Funds: **Basin Account Match = \$49,800**

- 75% of statewide request (meets 10% min)

Applicant & 3rd Party Match = \$42,900 (\$7,000 cash & \$35,900 in-kind)

- 65% of the statewide request (meets 10% min)

Total Match (Basin request & Applicant Match) = \$92,700

- 140% of the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$49,800 from the Yampa/White/Green Basin Account and \$66,000 from the Statewide Account to help fund the project: White River Integrated Water Initiative Phase 2

Water Activity Summary: If approved, Phase 2 of the White River Integrated Water Initiative (Initiative) will build upon Phase 1 completed in 2020 where the following mission statement was developed: *Community-based initiative to identify actions promoting a healthy river that ensures a vibrant agricultural community and maintains healthy fisheries while protecting water rights, quantity, and quality with respect for the local customs, cultures, and property rights.*

To accomplish this, the Districts will use WSRF funds assist in contracting with a Project Coordinator to maintain project momentum, continue community outreach, and coordinate planned assessments with stakeholders. Phase 2 also includes diversion structure and riparian health assessments which were identified

as being needed due to the lack of current information and data. The information collected through these assessments will help determine opportunities for projects that will benefit landowners, water right holders, the health of the river, and fish passages.

As Phase 2 progresses, the Project Coordinator will write a Plan of Work for Phase 3 that clearly delineates the next steps required including needed studies, modeling, and implementation of identified projects to improve the health of the White River. These steps will ultimately lead to the development of an Integrated Water Management Plan (IWMP) in the future.

Discussion: This project meets with several measureable outcomes in the Yampa-White-Green Basin Roundtable's Basin Implementation Plan including: protecting decreed and pre-compact water rights; protect and encourage agricultural uses; improves water quality; remediate at-risk or lost infrastructure; and provides public education and demonstration.

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

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-Kind	Total	Status
CSU Extension	\$0	\$4,800	\$4,800	Secured
Natural Resource Conservation Services	\$0	\$1,000	\$1,000	Secured
Colorado Parks & Wildlife	\$0	\$600	\$600	Secured
CO Northwestern Community College	\$0	\$7,300	\$7,300	Secured
Rivers Edge West	\$0	\$4,800	\$4,800	Secured
White River/Douglas Creek Conservancy District	\$0	\$4,900	\$4,900	Secured
Trout Unlimited	\$0	\$5,300	\$5,300	Secured
Ag Water Network	\$0	\$7,200	\$7,200	Secured
River Network	\$7,000	\$0	\$7,000	Secured
Sub-Total	\$7,000	\$35,900	\$42,900	
WSRF Yampa/White/Green Basin Account	\$49,800	\$0	\$49,800	Secured
WSRF Statewide Account	\$66,000	\$0	\$66,000	
Sub-Total	\$115,800	\$0	\$115,800	
Total Project Costs	\$122,800	\$35,900	\$158,700	

CWCB Project Manager: Chris Sturm