



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: February 27, 2020

AGENDA ITEM: 23(a-y)

Staff Recommendation - Action Items: WSRF Grant Request:

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
MARCH 2020

2/27/2020

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	\$0	\$7,000,000	\$4,480,000	\$2,520,000
2018/2019 CF	\$0	\$3,544,884	\$2,268,726	\$1,276,158
2019/2020	\$10,000,000	\$7,000,000	\$4,480,000	\$2,520,000
Interest	N/A	\$2,857,935	\$3,541,544	
(Prior Years Interest Adjustment 2007-2014 and FY2015. FY2016. FY2017)				\$0
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	\$ 321,531	\$321,531	\$0
TOTAL	\$104,775,000	\$101,116,135	\$67,425,194	\$34,374,551

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	\$3,392,174	\$3,819,395	\$427,221	\$11,844,935	
Colorado*	\$3,586,579	\$3,819,395	\$232,816	\$6,446,389	
Southwest *	\$3,313,647	\$3,819,395	\$505,748	\$8,161,644	
Gunnison *	\$3,369,657	\$3,819,395	\$449,738	\$6,530,052	
Metro *	\$3,019,801	\$3,819,395	\$799,594	\$7,461,732	
North Platte	\$2,951,785	\$3,819,395	\$867,610	\$842,844	
Rio Grande*	\$3,479,443	\$3,819,395	\$339,952	\$12,209,690	
South Platte *	\$3,169,780	\$3,819,395	\$649,615	\$7,639,612	
Yampa/White	\$3,137,104	\$3,819,395	\$682,291	\$847,969	
TOTAL	\$29,419,970	\$34,374,551	\$4,954,585	\$61,984,867	\$5,440,327
TOTAL APPROVED GRANTS					\$91,404,837

Note: Only includes grants approved by CWCB

* Comments reflect adjustments to balances

Water Supply Reserve Fund Applications for Consideration at the March 2020 CWCB Board Meeting

Agenda Item	Basin	Applicant/Grantee	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	Statewide Match (Basin & Non-WSRF)	Total Project Costs	Staff Recommendations	PM
23a	Arkansas	Arkansas River Watershed Collaborative	Ark Basin Fire, Flood, and BIP Initiative	\$89,892	\$255,182	\$345,074	\$39,000	\$0	\$39,000	\$128,892	\$384,074	Staff recommends approval of \$89,892 from the Arkansas Basin Account, and \$255,182 from the Statewide Account	Craig Godbout
23b	Arkansas	Huerfano County Water Conservancy District	Bruce Canyon Reservoir 50% Design	\$17,643	\$35,286	\$52,929	\$17,643	\$0	\$17,643	\$35,286	\$70,572	Staff recommends approval of \$17,643 from the Arkansas Basin Account, and \$35,286 from the Statewide Account	Craig Godbout
23c	Arkansas	Huerfano County Water Conservancy District	Maria Stevens Reservoir 50% Design	\$17,500	\$0	\$17,500	\$53,072	\$0	\$53,072	n/a	\$70,572	Staff recommends approval of \$17,500 from the Arkansas Basin Account	Craig Godbout
23d	Arkansas	St Charles Mesa Water District	St. Charles Mesa Cottonwood Irrigation Ditch #2 Headgate/Augmentation Station Project	\$10,040	\$100,400	\$110,440	\$73,560	\$0	\$73,560	\$83,600	\$184,000	Staff recommends approval of \$10,040 from the Arkansas Basin Account, and \$100,400 from the Statewide Account	Craig Godbout
23e	Colorado	Grand Valley Audubon Society	Audubon Nature Preserve Wetlands Improvement Project	\$25,000	\$50,000	\$75,000	\$119,527	\$18,890	\$138,417	\$163,417	\$213,417	Staff recommends approval of \$25,000 from the Colorado Basin Account, and \$50,000 from the Statewide Account	Chris Sturm
23f	Colorado	Garfield County School District 16	Diamond Ditch Piping Project	\$25,000	\$0	\$25,000	\$130,000	\$18,000	\$148,000	n/a	\$173,000	Staff recommends approval of \$25,000 from the Colorado Basin Account	Craig Godbout
23g	Colorado	West Divide Water Conservancy District/Colorado River Water Conservation District	Crystal River Basin Augmentation Investigation	\$12,500	\$12,500	\$25,000	\$75,000	\$0	\$75,000	\$87,500	\$100,000	Staff recommends approval of \$12,500 from the Colorado Basin Account, and \$12,500 from the Statewide Account	Craig Godbout
23h	Gunnison	Redlands Water & Power	Pumpline Replacement Project	\$50,000	\$75,000	\$125,000	\$170,000	\$155,279	\$325,279	\$375,279	\$450,279	Staff recommends approval of \$50,000 from the Gunnison Basin Account, and \$75,000 from the Statewide Account	Craig Godbout
23i	Gunnison	Lake Valley Fork Conservancy	Lake Fork River Enhancement Project Phase 3	\$20,000	\$131,355	\$151,355	\$97,200	\$28,000	\$125,200	\$145,200	\$276,555	Staff recommends approval of \$20,000 from the Gunnison Basin Account, and \$131,355 from the Statewide Account	Chris Sturm
23j	Gunnison	City of Ouray	Non-potable Water Supply Project Phase I	\$25,000	\$41,300	\$66,300	\$25,700	\$10,000	\$35,700	\$60,700	\$102,000	Staff recommends approval of \$25,000 from the Gunnison Basin Account, and \$41,300 from the Statewide Account	Craig Godbout
23k	Rio Grande	Terrace Irrigation Company	Alamosa River Water Delivery Improvement Project	\$15,000	\$90,000	\$105,000	\$55,000	\$0	\$55,000	\$70,000	\$160,000	Staff recommends approval of \$15,000 from the Rio Grande Basin Account, and \$90,000 from the Statewide Account	Craig Godbout
23l	Rio Grande	Colorado Open Lands	Jackson Ranch Conservation Easement	\$5,821	\$52,679	\$58,500	\$587,005	\$331,000	\$918,005	\$923,826	\$976,505	Staff recommends approval of \$5,821 from the Rio Grande Basin Account, and \$52,679 from the Statewide Account	Craig Godbout
23m	Rio Grande	Colorado Open Lands	Schaefer Farms Conservation Easement	\$23,284	\$209,266	\$232,550	\$660,450	\$327,450	\$987,900	\$1,011,184	\$1,220,450	Staff recommends approval of \$23,284 from the Rio Grande Basin Account, and \$209,266 from the Statewide Account	Craig Godbout
23n	Rio Grande	Rio Grande Watershed Conservation and Education Initiative	Rio Grande Basin Roundtable Community Education Staff Liaison 2020-2023	\$133,500	\$0	\$133,500	\$36,000	\$14,400	\$50,400	n/a	\$183,900	Staff recommends approval of \$133,500 from the Rio Grande Basin Account	Craig Godbout
23o	Rio Grande	New Ceniceri Ditch Company	Cenicero Diversion Dam, Headgate and bank Stabilization	\$106,000	\$318,000	\$424,000	\$759,788	\$0	\$759,788	\$865,788	\$1,183,788	Staff recommends approval of \$106,000 from the Rio Grande Basin Account, and \$318,000 from the Statewide Account	Craig Godbout
23q	Southwest	Montazuma Land Conservancy	Innovative Agricultural Management and Colorado's Next Generation of Water Leaders	\$24,192	\$0	\$24,192	\$69,251	\$0	\$69,251	n/a	\$93,443	Staff recommends approval of \$24,192 from the Southwest Basin Account	Craig Godbout
23q	Southwest	Mountain Studies Institute	416-Fire Aquatic Monitoring Year 2	\$19,088	\$0	\$19,088	\$39,894	\$66,041	\$105,935	n/a	\$125,023	Staff recommends approval of \$19,088 from the Southwest Basin Account	Craig Godbout
23r	Southwest	Mountain Studies Institute	Upper San Juan Integrated Water Management Planning, Phase II	\$42,957	\$0	\$42,957	\$128,419	\$21,743	\$150,162	n/a	\$193,119	Staff recommends approval of \$42,957 from the Southwest Basin Account	Craig Godbout
23s	Southwest	Southwest Conservation Corps	Dolores River Restoration Partnership Revegetation and Outreach	\$25,000	\$0	\$25,000	\$14,283	\$12,200	\$26,483	n/a	\$51,483	Staff recommends approval of \$25,000 from the Southwest Basin Account	Craig Godbout

Agenda Item	Basin	Applicant/Grantee	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	Statewide Match (Basin & Non-WSRF)	Total Project Costs	Staff Recommendations	PM
23t	Southwest	Upper Road 42 Water Association	Upper Road 42 Water Extension Phase 1	\$11,130	\$0	\$11,130	\$17,370	\$1,500	\$18,870	n/a	\$30,000	Staff recommends approval of \$11,300 from the Southwest Basin Account	Craig Godbout
23u	South Platte	Colorado Trout Unlimited	South Boulder Creek Stream Management Plan Phase II and Preliminary Infrastructure Design	\$40,000	\$0	\$80,000	\$208,000	\$33,000	\$241,000	n/a	\$321,000	Staff recommends approval of \$40,000 from the South Platte Basin Account, \$40,000 from the Metro Account	Chris Sturm
	Metro			\$40,000									
23v	South Platte	Colorado Division of Water Resources	Data Logger/Telemetry Installation Project, South Platte River Basin (Division 1)	\$100,000	\$190,000	\$290,000	\$47,210	\$132,400	\$179,610	\$279,610	\$469,610	Staff recommends approval of \$100,000 from the South Platte Basin Account, and \$190,000 from the Statewide Account	Craig Godbout
23w	Yampa/White/Green	Trout Unlimited	Lower Elkhead Creek Restoration Project, Phase 1	\$50,000	\$150,000	\$200,000	\$1,171,000	\$129,000	\$1,300,000	\$1,350,000	\$1,500,000	Staff recommends approval of \$50,000 from the Yampa/White/Green Basin Account, and \$150,000 from the Statewide Account	Chris Sturm
23x	North Platte	Colorado State University - Colorado Climate Center	Continuation of Weather Stations for North Park lysimeters to determine high altitude, hay meadow crop coefficients.	\$17,884	\$0	\$17,884	\$4,471	\$0	\$4,471	n/a	\$22,355	Staff recommends approval of \$17,884 from the North Platte Basin Account	Craig Godbout
				\$946,431	\$1,710,968	\$2,657,399							
Change of Fiscal Agent (Grantee)													
	Basin	Original Grantee	Proposed Grantee										
23y	North Platte	Colorado State University - Colorado Climate Center	Colorado River Engineering									Staff recommends approval	Craig Godbout

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	Remaining Statewide Account Balance (if all requests approved)
Arkansas Basin	\$135,075	\$390,868	\$525,943	\$427,221	\$292,146		
Colorado Basin	\$62,500	\$62,500	\$125,000	\$232,816	\$170,316		
Gunnsion Basin	\$95,000	\$247,655	\$342,655	\$449,738	\$354,738		
Metro	\$40,000	\$0	\$40,000	\$799,594	\$759,594		
North Platte	\$17,884	\$0	\$17,884	\$867,610	\$849,726	\$5,440,327	\$3,729,359
Rio Grande	\$283,605	\$669,945	\$953,550	\$339,952	\$56,347		
Southwest	\$122,367	\$0	\$122,367	\$505,748	\$383,381		
South Platte	\$140,000	\$190,000	\$330,000	\$649,615	509615		
Yampa/White/Green	\$50,000	\$150,000	\$200,000	\$682,291	\$632,291		
Water Supply Reserve Fund Total Requests	\$946,431	\$1,710,968	\$2,657,399	\$4,954,585	\$ 4,008,154		

Water Supply Reserve Fund – Grant and Loan Program
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(a)

Applicant & Grantee: Arkansas River Watershed Collaboration

Water Activity Name: Ark Basin Fire, Flood, and BIP Initiative

Water Activity Purpose: Multi-Purpose/Implementation

County: All with Arkansas Basin

Drainage Basin: Arkansas

Water Source: Arkansas River & tributaries

Amount Requested: \$89,892 Arkansas Basin Account
\$255,182 Statewide Account
\$345,074 Total Request

Matching Funds: Basin Account Match = \$89,892

- 35% of statewide request (meets 10% min)

Applicant & 3rd Parties Match = \$39,000

- 15% of the statewide request (meets 10% min)

Total Match (Basin & Applicant) = \$128,892

- 51% of the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$89,892 from the Arkansas Basin Account, and \$255,182 from the Statewide Account to help fund the project titled: Ark Basin Fire, Flood, and BIP Initiative.

Water Activity Summary: WSRF grant funds, if approved, will assist the Arkansas River Watershed Collaboration (ARWC) develop a fuels mitigation project and post-fire recovery response in the Arkansas River Basin. As the non-profit arm of the Roundtable, ARWC is uniquely positioned to engage the water community and act as a liaison between Federal, State, Local, and Private partners. Fire and post-fire flooding are the new norm and ARWC plays a critical role in assisting communities in proactive fuels mitigation and post-fire response. Fire and flood affect all water users municipal, agricultural, environmental, and recreational and we must work collectively to mitigate the effects that wildfires have on our watersheds. A timely and organized response is essential to the success of pre- and post-fire work, but a funding gap exists. This grant request will be utilized to help fill the immediate funding gap for ARWC to continue to provide these critical services. ARWC will leverage this funding to further develop partnerships, funding sources and build their capacity to establish a sustainable future for ARWC and the communities that they serve. ARWC and the Roundtables Public Education, Participation and Outreach committee have developed a partnership (the Partners) to align our objectives and strategies to efficiently and effectively meet the needs of the Arkansas Basin. Through this partnership, we will work together to meet the watershed, education, and project development needs of this large Basin. The Partners play vital roles in the operations and execution of Roundtable activities and provide leadership and expertise for the development of water projects across the Basin. Often, the Roundtable looks to the Partners to provide support, leadership, coordination and planning

for Ark Basin activities and funding from this request will be utilized to continue to serve in this capacity. The objectives of this combined effort are as follows:

- Provide leadership, organization, and engagement for the development of at least two large-scale, multi-jurisdictional fuels mitigation project.
- Provide leadership, support, direction, organization and guidance for Decker-Fire Recovery.
- Provide leadership, support, direction, organization, and expertise to Basin communities in the development of water related projects and programs.
- Support the functions and address the needs of the Ark. Basin Roundtable, its sub-committees, and the BIP update process.
- Provide education, outreach, and communications throughout the Basin.

Discussion: This effort will assist the Arkansas Basin Roundtable meet the following goals as called out in their Basin Implementation Plan, such as Meet the municipal supply gap in each county with in the basin (Goal 1.6.2.1), Support regional infrastructure development for cost-effective solutions to local water supply gaps (Goal 1.6.2.1), Maintain, improve, or restore watersheds that could effect environmental and recreational resources (Goal 1.6.3), and Improve water quality as it relates to the environment and/or recreation, as well as assisting Colorado's Water Plan achieve its objectives to: Encourage and support capacity in many areas that currently do not have watershed groups or other groups that work with a broad set of local stakeholders; Assist stakeholders in existing watershed groups to identify tools and resources that address gaps and build capacity in existing plans; Identify public and private funding sources that together can support watershed and forest health projects; and Work toward a long-term goal of developing watershed master plans for watersheds critical to consumptive and nonconsumptive water supply as called for in Section 7.1: Watershed Health and Management.

Issues/Additional Needs: None.

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
Colorado Springs Utilities	\$5,000	\$0	\$5,000	Secured
Pueblo Board of Water Works	\$5,000	\$0	\$5,000	Secured
Chaffee County BOCC	\$25,000	\$0	\$25,000	Secured
Huerfano County Water Conservancy District	\$1,000	\$0	\$1,000	Secured
Upper Arkansas Water Conservancy District	\$1,000	\$0	\$1,000	Secured
Lake County BOCC	\$1,000	\$0	\$1,000	Secured
Parkville Water District	\$1,000	\$0	\$1,000	Secured
Sub-total	\$39,000	\$0	\$39,000	
WSRF Arkansas Basin Account	\$89,892	\$0	\$89,892	Secured
Sub-total	\$128,892	\$0	\$128,892	
WSRF Statewide Account	\$255,182	\$0	\$255,182	
Total Project Costs	\$384,074	\$0	\$384,074	

CWCB Project Manager: Craig Godbout

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(b)**

Applicant & Grantee: Huerfano County Water Conservancy District

Water Activity Name: Bruce Canyon Reservoir 50% Design

Water Activity Purpose: Multi-Purpose

County: Huerfano

Drainage Basin: Arkansas

Water Source: Cucharas

Amount Requested: \$17,643 Arkansas Basin Account
\$35,286 Statewide Account
\$59,929 Total Request

Matching Funds: Basin Account Match = \$17,643

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

Applicant Match & 3rd Parties (cash) = \$17,643

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

Total Match (Basin & Applicant) = \$35,286

- 100% of the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$17,643 from the Arkansas Basin Account and up to \$35,286 from the Statewide Account to help fund the project: Bruce Canyon Reservoir 50% Design.

Water Activity Summary: WSRF Funds, if approved will assist Huerfano County Water Conservancy District develop a 50% design development package for Bruce Canyon Reservoir Project which will include: geotechnical analyses typical of 50% designs for small dams in Colorado; hydrologic analysis of the dam site per DWR Dam Safety Rules & Regulations; developing 50% design drawings for Bruce Canyon dam; working with Colorado Dam Safety Branch to address their informal input on dam design; and presentation of 50% design to the Cucharas Basin Storage Collaborative group.

Discussion: This effort will assist the Arkansas Basin Roundtable meet the Goals and Measurable Outcomes as described in their Basin Implementation Plan by providing 1,406 acre feet of new storage and will also assist the State of Colorado achieve additional; storage goals as called for in Colorado's Water Plan.

Issues/Additional Needs: The applicant shall submit all letters of matching commitment prior to entering into a grant contract with the state, otherwise there are no issues or additional needs.

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
Huerfano County Water Conservancy District	\$5,143	\$0	\$5,143	Pending
Huerfano County	\$5,000	\$0	\$5,000	Secured
Cucharas Sanitation & Water District	\$2,500	\$0	\$2,500	Secured
Town of La Veta	\$5,000	\$0	\$5,000	Secured
Sub-total	\$17,643	\$0	\$17,643	
WSRF Arkansas Basin Account	\$17,643	\$0	\$17,643	Secured
Sub-total	\$35,286	\$0	\$35,286	
WSRF Statewide Account	\$35,286	n/a	\$35,286	
Total Project Costs	\$70,572	\$0	\$70,572	

CWCB Project Manager: Craig Godbout

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(c)**

Applicant & Grantee: Huerfano County Water Conservancy District
Water Activity Name: Maria Stevens Reservoir 50% Design
Water Activity Purpose: Multi-Purpose
County: Huerfano
Drainage Basin: Arkansas
Water Source: Cucharas River
Amount Requested: \$17,500 Arkansas Basin Account
Matching Funds: Applicant & 3rd Party Match (cash) = \$53,072
• 303% of the Basin Account request (meets 25% min)

Staff Recommendation:
Staff recommends approval of up to \$17,500 from the Arkansas Basin Account to help fund the project: Maria Stevens Reservoir 50% Design.

Water Activity Summary: WSRF Funds, if approved will assist Huerfano County Water Conservancy District develop a 50% design development package for Maria Stevens Reservoir Project which will include: geotechnical analyses typical of 50% designs for small dams in Colorado; hydrologic analysis of the dam site per DWR Dam Safety Rules & Regulations; developing 50% design drawings for Bruce Canyon dam; working with Colorado Dam Safety Branch to address their informal input on dam design; and presentation of 50% design to the Cucharas Basin Storage Collaborative group.

Discussion: This effort will assist the Arkansas Basin Roundtable meet the Goals and Measurable Outcomes as described in their Basin Implementation Plan by providing 1,406 acre feet of new storage and will also assist the State of Colorado achieve additional; storage goals as called for in Colorado's Water Plan.

Issues/Additional Needs: The applicant shall submit all outstanding letters of matching commitment prior to entering into a grant contract with the state, otherwise there are no issues or additional needs.

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
Huerfano County Water Conservancy District	\$4,375	\$0	\$4,375	Pending
Maria Lake Grazing Association	\$5,411	\$0	\$5,411	Secured
Huerfano County	\$4,000	\$0	\$4,000	Secured
Colorado Water Plan Grant	\$39,286	\$0	\$39,286	Pending
Sub-total	\$53,072	\$0	\$53,072	
WSRF Arkansas Basin Account	\$17,500	\$0	\$17,500	Secured
Total Project Costs	\$70,572	\$0	\$70,572	

CWCB Project Manager: Craig Godbout

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(d)**

Applicant & Grantee: St Charles Mesa Water District

Water Activity Name: St. Charles Mesa Cottonwood Irrigation Ditch #2
Headgate/Augmentation Station Project

Water Activity Purpose: Municipal/Industrial - Implementation

County: Huerfano

Drainage Basin: Arkansas

Water Source: Cucharas

Amount Requested: \$10,040 Arkansas Basin Account
\$100,400 Statewide Account
\$110,440 Total Request

Matching Funds: Basin Account Match = \$10,040

- 10% of statewide request (meets 10% min)
- Applicant & 3rd Parties Match (cash) = \$73,560
- 73% of the statewide request (meets 10% min)
- Total Match (Basin & Applicant) = \$83,560
- 83% of the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$10,040 from the Arkansas Basin Account and up to \$100,400 from the Statewide Account to help fund the project: St. Charles Mesa Cottonwood Irrigation Ditch #2 Headgate/Augmentation Station Project.

Water Activity Summary: WSRF Funds, if approved will assist the St Charles Mesa Water District repair and replace Cottonwood Irrigating Ditch #2 (CID2) Diversion headgate and Parshall flume. Details of the infrastructure project include re-establishing the headgate in Cottonwood Creek, which requires the setting of a precast headwall and installation of a new gate. To help stabilize and prevent dislodging of the headgate, onsite riprap will be grouted. Replacement of the Parshall flume is necessary, along with installation of a mass concrete foundation to stabilize against movement. Erosion has occurred around the headgate diversion structure on Cottonwood Creek causing it to move and lift during the winter months and resulting in St. Charles Mesa Water District not being able to receive their full decreed diversion during certain months of the year. These infrastructure repairs will allow for more efficient water delivery of their full decreed 3.8 cfs through the flume. The CID2 water right accounts for nearly 50% of their municipal water supply.

Discussion: This effort will assist the Arkansas Basin Roundtable meet the Goals and Measurable Outcomes as described in their Basin Implementation Plan by helping meet the need to “use water efficiently to reduce overall future water needs”, while also assisting Colorado’s Water Plan value of having an “efficient and effective water infrastructure.”

Issues/Additional Needs: None

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
St Charles Mesa Water District	\$63,560	\$0	\$63,560	Secured
Upper Arkansas Water Conservancy District	\$10,000	\$0	\$10,000	Secured
Sub-total	\$73,560	\$0	\$73,560	
WSRF Arkansas Basin Account	\$10,040	\$0	\$10,560	Secured
Sub-total	\$83,600	\$0	\$83,600	
WSRF Statewide Account	\$100,400	n/a	\$100,600	
Total Project Costs	\$184,000	\$0	\$184,000	

CWCB Project Manager: Craig Godbout

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(e)**

Applicant & Grantee: Grand Valley Audubon Society

Water Activity Name: Audubon Nature Preserve Wetlands Improvement Project

Water Activity Purpose: Environmental Recreational - Implementation

County: Mesa

Drainage Basin: Colorado

Water Source: Colorado River

Amount Requested: \$25,000 Colorado 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 Match & 3rd Parties = \$138,417
- 185% of the statewide request (meets 10% min)
Total Match (Basin & Applicant) = \$163,417
- 218% of the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$25,000 from the Colorado Basin Account, and \$75,000 from the Statewide Account to help fund the project: Audubon Nature Preserve Wetlands Improvement Project.

Water Activity Summary: WSRF Funds, if approved will assist the Grand Valley Audubon Society, Ducks Unlimited, and other partners to improve riparian and wetland habitat on the Audubon Nature Preserve property in Grand Junction. This publicly accessible, highly visible property is adjacent to the Colorado River mainstem, endangered fish habitat, a state park and public trail. It is located on the edge of the Central Flyway, a major migratory corridor for waterfowl and other birds. Currently, the property supports some populations of wetland birds and other wildlife. However, managers have no means to manage available habitats to maximize use by wildlife. Water quality is poor and anoxic. Wetland hydroperiods are driven by groundwater fluctuations, which are out of phase with migrating waterfowl needs. We will improve wetland habitat on 11.5 acres of former gravel pit ponds and semi-permanent wetlands by re-contouring ponds to create shallow wetlands. Additionally, 23 acres of riparian forest will be improved via removal of invasive phreatophytes and planting of native species. Water from the Grand Junction-Redlands tailrace will be used to optimize seasonal water levels and improve water quality.

Discussion: This effort will assist the Colorado Basin Roundtable achieve their goals to Protect and rehabilitate healthy rivers, streams, lakes and riparian areas and identify habitat restoration projects to benefit important recreational or natural values as called for in the Colorado Basin Implementation Plan, as well as assisting Colorado's Water Plan achieve the goal of enhancing environmental and

recreational economics, promote protection and restoration of water quality, and protect and restore critical watersheds as called for in Chapter 10.

Issues/Additional Needs: None.

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
Grand Valley Audubon Society	\$55,000	\$13,706	\$68,706	Secured
CPW	\$30,427	\$0	\$30,427	Secured
Ducks Unlimited	\$15,000	\$5,184	\$20,184	Secured
National Audubon Society	\$2,500	\$0	\$2,500	Secured
Audubon Rockies	\$5,000	\$0	\$5,000	Secured
RiversEdge West	\$3,000	\$0	\$3,000	Secured
Forever Our Rivers Foundation	\$1,000	\$0	\$1,000	Secured
Western Colorado Community Foundation	\$7,600	\$0	\$7,600	Secured
Sub-total	\$119,527	\$18,890	\$138,417	
WSRF Colorado Basin Account	\$25,000	\$0	\$25,000	Secured
Sub-total	\$144,527	\$18,890	\$163,417	
Statewide Account	\$75,000	n/a	\$75,000	
Total Project Costs	\$219,527	\$18,890	\$238,417	

CWCB Project Manager: Chris Sturm

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(f)**

Applicant & Grantee: Garfield County School District No. 16
Water Activity Name: Diamond Ditch Piping Project
Water Activity Purpose: Multi-Purpose/Implementation
County: Garfield
Drainage Basin: Colorado
Water Source: Parachute Creek
Amount Requested: \$25,000 Colorado Basin Account
Matching Funds: Applicant Match = \$148,000
• 592% of statewide request (meets 10% min)

Staff Recommendation:
Staff recommends approval of up to \$25,000 from the Colorado Basin Account to help fund the project: Diamond Ditch Piping Project.

Water Activity Summary: WSRF Funds, if approved will assist Garfield County School District No. 16 replace an open ditch delivery system sourced from Parachute Creek with approximately 2,000 feet of 24-inch ADS pipe. The existing system is approximately 6,000 feet long and has been mostly piped except for the first 2,000 feet which has significant conveyance losses, estimated at 20% of diversion. These losses impact the ability of the ditch users to receive irrigation water needed particularly at the athletic fields at Grand Valley High School. Additional, the ditch work will address significant hazards to the ditch from sheer the 30 feet earthen embankments looming above the ditch and undercutting of the ditch embankment by Parachute Creek. NRCS is providing in-kind ditch pipeline and grading design for the project. The requested WSRF Grant funds will be used for construction of the pipeline and embankment grading, including materials costs and contractor fees. Diamond Ditch is utilized by five others including hay irrigators, soon to be greenhouse agricultural production and three residences. Recently there has been as much as 38 acres of irrigation under the ditch.

Discussion: This effort will assist the Colorado Basin Roundtable meet the Goals and Measurable Outcomes to *Secure Safe Drinking Water* supplies as described in their Basin Implementation Plan. This effort also assists Colorado's Water Plan by taking actions to conserve irrigation water as indicated in Section 6.3.5.

Issues/Additional Needs: Prior to entering into a grant contract with the state, the applicant must submit all letters of matching commitment, otherwise there are no additional issues or needs.

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
Garfield County School District No. 16	\$125,000	\$3,000	\$128,000	Secured
NRCS	\$0	\$15,000	\$15,000	Pending
Bookcliff Conservation District	\$5,000	\$0	\$5,000	Pending
Sub-total	\$130,000	\$18,000	\$148,000	
WSRF Colorado Basin Account	\$25,000	\$0	\$25,000	Secured
Total Project Costs	\$155,000	\$18,000	\$173,000	

CWCB Project Manager: Craig Godbout

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(g)**

Applicant: West Divide Water Conservancy District

Grantee: Colorado River Water Conservation District

Water Activity Name: Crystal River Basin Augmentation Investigation

Water Activity Purpose: M&I/Needs Assessment - Study

County: Pitkin & Gunnison

Drainage Basin: Colorado

Water Source: Crystal River

Amount Requested:

\$12,500	Colorado Basin Account
<u>\$12,500</u>	<u>Statewide Account</u>
\$25,000	Total Request

Matching Funds:

Basin Account Match = \$12,500

- 100% of statewide request (meets 10% min)

Applicant & 3rd Parties Match (cash) = \$75,000

- 600% of the statewide request (meets 10% min)

Total Match (Basin & Applicant) = \$87,500

- 700% of the statewide request (meets 50% min)

Staff Recommendation:

Staff recommends approval of up to \$12,500 from the Colorado Basin Account and up to \$12,500 from the Statewide Account to help fund the project: Crystal River Basin Augmentation Investigation.

Water Activity Summary: WSRF Funds, if approved will assist the Colorado River Water Conservation District develop for West Divide Water Conservancy District a feasibility level study to develop a plan for augmentation in the Crystal River Basin. The drought of 2018 highlighted the fact that at least 6 subdivisions and various other junior water users do not have a legal water supply during a senior water right call on the Crystal River. During 2018, emergency SWSP's were required to ensure municipal water deliveries. It has become apparent that a basin-wide augmentation solution is needed. Division 5 has indicated they will begin issuing cease and desist orders for any junior user not actively working toward a solution. This work will focus on the following: quantify existing demands within the Crystal River drainage, evaluation the exchange potential at key locations within the basin, evaluate basin-wide augmentation strategies, update and re-evaluate small storage alternatives, evaluate new storage/recharge alternatives, develop a basin-wide augmentation strategy, public outreach and education with the various Crystal River environmental groups to educate them about the ongoing augmentation issues, and evaluate various methodologies for financing and implementation of a plan for augmentation. No on-channel, mainstem Crystal River storage will be sought, with the exception of alluvial aquifer storage.

Discussion: This effort will assist the Colorado Basin Roundtable meet the Goals and Measurable Outcomes as described in their Basin Implementation Plan (CBIP pages 112-116) by which mainly focuses on protecting, maintaining and restoring healthy rivers and potential exploration of small storage projects to benefit late season flows. The CBIP identifies securing safe drinking water as a theme, this should also include a dependable legal supply of water for users in the Crystal River basin. This work will also explore potential agreements with irrigators to provide water for domestic/municipal users in times of drought (CBIP pg 13). This activity also supports the goals of the Colorado Water Plan by addressing the supply-demand gap (CWP Chapter 10(A)) as well as addressing the feasibility of storage (CWP Chapter 10(E)) to address the gap.

The Colorado Basin Roundtable Chair's Recommendation Letter state that the Roundtable's votes was 17 yeas, 3 nays. Please refer to the Colorado Basin Roundtable minutes (highlighted sections pages 1-2 through 1-5) for this discussion.

Issues/Additional Needs: The applicant must secure a Colorado Water Plan Grant to complete their funding requirement prior to entering into a grant contract with the state, or provide an alternate funding source if they are unsuccessful, otherwise there are no additional issues or needs.

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
Colorado River Water Conservation District	\$10,000	\$0	\$10,000	Secured
West Divide Water Conservancy District	\$15,000	\$0	\$15,000	Secured
Colorado Water Plan Grant	\$50,000	\$0	\$50,000	Pending
Sub-total	\$75,000	\$0	\$75,000	
WSRF Colorado Basin Account	\$12,500	\$0	\$12,500	Secured
Sub-total	\$87,500	\$0	\$87,500	
WSRF Statewide Account	\$12,500	n/a	\$12,500	
Total Project Costs	\$100,000	\$0	\$100,000	

CWCB Project Manager: Craig Godbout

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(h)**

Applicant & Grantee: Redlands Water and Power Company
Water Activity Name: Pumpline Replacement Project
Water Activity Purpose: Multi-Purpose - Implementation
County: Mesa
Drainage Basin: Gunnison
Water Source: Colorado River
Amount Requested: \$50,000 Gunnison Basin Account
\$75,000 Statewide Account
\$125,000 Total Request

Matching Funds: Basin Account Match = \$50,000
• 67% of the statewide request (meets 10% min)
Applicant Match (cash & in-kind) = \$325,279
• 433% of the statewide request (meets 10% min)
Total Match (Basin & Applicant) = \$375,279
• 500% of the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$50,000 from the Gunnison Basin Account and up to \$75,000 from the Statewide Account to help fund the project: Pumpline Replacement Project.

Water Activity Summary: WSRF Funds, if approved will assist the Redlands Water and Power Company's efforts to continue to pump irrigation water to the bench lands high above the Colorado and Gunnison Rivers, RWPC must replace their existing pumpline, which provides irrigation water for residential lawns and gardens, orchards, vineyards, alfalfa fields, and pasture grass. The Project is phase one of a much larger project that will modernize RWPC's entire Pump Station No. 1 (originally constructed in 1917). The Project will replace the pre-2007 sections of the existing pumpline with 100 feet of new 48-inch steel pipe, and 900 feet of 48-inch HDPE pipe. The entire Project is within RWPC property with portions of the pumpline (a 900-foot section) to be installed beneath a dirt maintenance road owned by RWPC. The Project will also include a parallel 12-inch HDPE pipeline with turnouts for users that receive water directly from the pumpline. The parallel line will prevent the systemwide shutdowns that currently occur when unplanned/emergency maintenance is required on the pumpline turnouts.

Discussion: This effort will assist the Gunnison Basin Roundtable meet their Goals and Measurable Outcomes as identified in the Gunnison Basin Implementation Plan: *Protect existing water uses in the Gunnison Basin; Improve agricultural water supplies to reduce shortages; Quantify and protect environmental and recreational water uses; Describe and encourage the beneficial relationship between agricultural and environmental recreational water uses; Restore, maintain, and modernize*

critical water infrastructure, including hydropower. Additionally this effort will assist Colorado's Water Plan meet the Critical Goals and Actions of; Meet Colorado's Water Gaps, and Protect and Develop Compact Entitlements and Manage Risks

Issues/Additional Needs: None

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
Redlands Water & power Company	\$170,000	\$155,279	\$325,279	Secured
Sub-total	\$170,000	\$155,279	\$325,279	
WSRF Gunnison Basin Account	\$50,000	\$0	\$50,000	Secured
Sub-total	\$220,000	\$155,279	\$375,279	
WSRF Statewide Account	\$75,000	n/a	\$75,000	
Total Project Costs	\$295,000	\$155,279	\$450,279	

CWCB Project Manager: Craig Godbout

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(i)**

Applicant & Grantee: Lake Fork Valley Conservancy
Water Activity Name: Lake Fork River Enhancement Project Phase 3
Water Activity Purpose: Env & Rec/Ed & Outreach - Implementation
County: Hinsdale
Drainage Basin: Gunnison
Water Source: Lake Fork River
Amount Requested: \$20,000 Gunnison Basin Account
\$131,355 Statewide Account
\$151,355 Total Request

Matching Funds: Basin Account Match = \$20,000

- 15% of the statewide request (meets 10% min)

Applicant & 3rd Party Match (cash & in-kind) = \$125,200

- 91% of the statewide request (meets 10% min)

Total Match (Basin & Applicant) = \$145,200

- 110% of the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$20,000 from the Gunnison Basin Account and up to \$131,355 from the Statewide Account to help fund the project: Lake Fork River Enhancement Project Phase 3.

Water Activity Summary: WSRF Funds, if approved will assist the Lake Fork Valley Conservancy (LVVC) continue their efforts to restoration of 3,200 linear feet of river and the restoration of 5.5 acres of habitat. They also seek to complete the interpretive river trail system, which includes design and installation of eight additional plaques with accompanying guide and educational curricula. These efforts are part of the future Lake Fork River Recreation Corridor in the Town of Lake City. The planning process for this corridor is ongoing as part of LFVC's strategic planning for 2020-2024.

Discussion: This effort will assist the Gunnison Basin Roundtable meet Goal #5: Quantify and protect environmental and recreational water uses as identified in the Gunnison Basin Implementation Plan: Additionally this effort will assist Colorado's Water Plan meet several goals, such as:

- Promote restoration, recovery, sustainability, and resiliency of endangered, threatened, and imperiled aquatic- and riparian-dependent species and plant communities.
- Protect and enhance economic values to local and statewide economies that rely on environmental and recreational water uses, such as fishing, boating, waterfowl hunting, wildlife watching, camping, and hiking.
- Support the development of multipurpose projects and methods that benefit environmental and recreational water needs as well as water needs for communities or agriculture.

- Understand, protect, maintain, and improve conditions of streams, lakes, wetlands, and riparian areas to promote self-sustaining fisheries and functional riparian and wetland habitat to promote long-term sustainability and resiliency.
- Maintain watershed health by protecting or restoring watersheds that could affect critical infrastructure and/or environmental and recreational areas.

Issues/Additional Needs: The applicant shall submit all outstanding letters of matching commitment prior entering into a grant contract with the state; otherwise there are no issues or additional needs.

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
Lake Fork Valley Conservancy	\$14,900	\$0	\$14,900	Secured
Landowners	\$49,300	\$0	\$49,300	Pending
CPW	\$33,000	\$0	\$33,000	Pending
Hinsdale County	\$0	\$25,000	\$25,000	Secured
Webco, Inc	\$0	\$3,000	\$3,000	Pending
Sub-total	\$97,200	\$28,000	\$125,200	
WSRF Gunnison Basin Account	\$20,000	\$0	\$20,000	Secured
Sub-total	\$117,200	\$28,000	\$145,200	
WSRF Statewide Account	\$131,355	n/a	\$131,355	
Total Project Costs	\$248,555	\$280,000	\$276,555	

CWCB Project Manager: Chris Sturm

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(j)**

Applicant & Grantee: City of Ouray

Water Activity Name: Non-potable Water Supply Project Phase I

Water Activity Purpose: Env & Rec/M&I - Study

County: Ouray

Drainage Basin: Gunnison

Water Source: Wehawken Creek

Amount Requested: \$25,000 Gunnison Basin Account
\$41,300 Statewide Account
\$66,300 Total Request

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

- 60% of statewide request (meets 10% min)

Applicant & 3rd Party Match (cash & in-kind) = \$35,700

- 115% of the statewide request (meets 10% min)

Total Match (Basin & Applicant) = \$60,700

- 146% of the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$25,000 from the Gunnison Basin Account and up to \$41,300 from the Statewide Account to help fund the project: Non-potable Water Supply Project Phase I.

Water Activity Summary: WSRF Funds, if approved will assist the City of Ouray and the Ouray Ice Park Inc. develop a Phase 1 study of the Non-potable Water Supply Project (The Project) and includes a conceptual design and CWCB Loan Feasibility Study for constructing a 10-inch diameter Potable Water Pipeline (Proposed Pipeline) and converting an existing 10-inch Potable Pipeline (Existing Pipeline) to a non-potable water supply pipeline. Funding for the Project will be used for: surveying; water rights evaluation; existing utility mapping; geotechnical investigation; conceptual design (30% level); environmental permitting evaluation; easement needs assessment; and a CWCB loan feasibility study for the possibility of a construction loan for the project.

Discussion: This effort will assist the Gunnison Basin Roundtable meet their Goals and Measurable Outcomes and is included in three Gunnison Basin Tier 1 projects as called for in the Gunnison Basin Implementation Plan such as: #37 City of Ouray Water Efficiency and Conservation Plan Implementation; #45 Development of Upper Uncompahgre River Basin Water Supplies; #40 Environmental/Recreational Project Identification and Inventory – Upper Uncompahgre River Basin. In addition, this effort assists Colorado's Water Plan by reducing the M&I water supply gap, enhancing environmental and recreational economic values, and promoting the protection and restoration of water quality as call for in Chapter 10.

Issues/Additional Needs: The applicant shall submit to CWCB all required match letters of commitment prior to entering into a grant contract with the state, otherwise there are no additional issues or needs.

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 Ouray	\$0	\$10,000	\$10,000	
Ouray Ice Park Inc.	\$25,700	\$0	\$25,700	Pending
Sub-total	\$25,700	\$10,000	\$35,700	
WSRF Gunnison Basin Account	\$25,000	\$0	\$25,000	Secured
Sub-total	\$50,700	\$10,000	\$60,700	
WSRF Statewide Account	\$41,300	n/a	\$41,300	
Total Project Costs	\$92,000	\$10,000	\$102,000	

CWCB Project Manager: Craig Godbout

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(k)**

Applicant & Grantee: Terrace Irrigation Company
Water Activity Name: Alamosa River Water Delivery Improvement Project
Water Activity Purpose: Ag & M/I - Implementation
County: Conejos
Drainage Basin: Rio Grande
Water Source: Alamosa River
Amount Requested: \$15,000 Rio Grande Basin Account
\$90,000 Statewide Account
\$105,000 Total Request

Matching Funds: Basin Account Match = \$15,000
• 17% of statewide request (meets 10% min)
Applicant & 3rd Party Match = \$55,000
• 51% of the statewide request (meets 10% min)
Total Match (Basin & Applicant) = \$70,000
• 78% of the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$15,000 from the Rio Grande Basin Account and up to \$90,000 from the Statewide Account to help fund the project: Alamosa River Water Delivery Improvement Project.

Water Activity Summary: WSRF Funds, if approved will assist Terrace Irrigation Company and the Alamosa La-Jara Water Conservancy District: remove and replace an existing head gate on the Main Canal; install automatic controllers on headgates on the Main Canal and Canal Creek; and purchase and install five or more satellite recorders on Alamosa River Diversions. The diversions along the Alamosa River are currently diverted with deteriorating and out-of-date headgates.

Discussion: This effort will assist the Rio Grande Basin Roundtable meet their needs as identified in the Rio Grande Basin Implementation Plan, such as; Sustain the confined and unconfined aquifers in accordance with Senate Bill 04-222 and operate within the State Engineer's new Rules and Regulations for the San Luis Valley; Operate, maintain, rehabilitate, and create necessary infrastructure to meet the Basin's long-term water needs, including storage; Manage water use to sustain optimal agricultural economy through the Basin's communities; Promote water management and administrative practices that are adaptive, flexible, and responsive to optimize multiple benefits. In addition, this effort will assist Colorado's Water Plan achieve the Critical Actions called for in Chapter 10, such as; maintain agricultural viability, and support agricultural conservation and efficiency.

Issues/Additional Needs: None.

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
Terrace Irrigation Company	\$30,000	\$0	\$30,000	Secured
Alamosa-La Jara Water Conservancy District	\$25,000	\$0	\$25,000	Secured
Sub-total	\$55,000	\$0	\$55,000	
WSRF Rio Grande Basin Account	\$15,000	\$0	\$15,000	Secured
Sub-total	\$70,000	\$0	\$70,000	
WSRF Statewide Account	\$90,000	n/a	\$90,000	
Total Project Costs	\$160,000	\$0	\$160,000	

CWCB Project Manager: Craig Godbout

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(I)**

Applicant & Grantee: Colorado Open Lands

Water Activity Name: Jackson Ranch Conservation Easement

Water Activity Purpose: Ag & Environmental - Implementation

County: Conejos

Drainage Basin: Rio Grande

Water Source: Conejos River

Amount Requested: \$5,821 Rio Grande Basin Account
\$52,679 Statewide Account
\$58,500 Total Request

Matching Funds: Basin Account Match = \$5,821

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

Applicant & 3rd Party Match (cash & in-kind) = \$918,005

- 17 times the statewide request (meets 10% min)

Total Match (Basin & Applicant) = \$923,826

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

Staff Recommendation:

Staff recommends approval of up to \$5,821 from the Rio Grande Basin Account and up to \$52,679 from the Statewide Account to help fund the project: Jackson Ranch Conservation Easement.

Water Activity Summary: WSRF Funds, if approved will assist Colorado Open Lands to provide the remaining needed funding to purchase a conservation easements on Jackson Ranch. The 433-acre Jackson Ranch has significant senior water rights and is a part of an important agricultural corridor and part of Colorado Open Lands landscape priorities for the San Luis Valley. The conservation easement on Jackson Ranch will tie its senior water rights on the Conejos River system to the property preventing an outright sale of those water rights. The ranch holds the #21 and number #30 water rights on the Conejos River. Conservation of this ranch keeps the existing hydrology intact, which ensures return flows to downstream users and the river. This water right provides flood irrigation to 80 acres of alfalfa and 240 acres of wet meadow used for hay and pasture. The remainder of the property is riparian area and remains productive due to sub-irrigation and ensures that the existence of this important wildlife corridor that supports deer, elk, bear, raptors and the southwest willow flycatcher. This project is an important addition in preserving the agricultural landscape and the historic water use patterns along the San Antonio and Conejos river corridors, by reducing the threat of encroaching subdivisions this easement will maintain active wildlife corridors and ensuring the delivery of critical water resources.

Discussion: This effort will assist the Rio Grande Basin Roundtable meet their needs as identified in the Rio Grande Basin Implementation Plan, such as; Sustain the confined and unconfined aquifers in accordance with Senate Bill 04-222 and operate within the State Engineer's new Rules and Regulations for the San Luis Valley; Operate, maintain, rehabilitate, and create necessary infrastructure to meet the

Basin's long-term water needs, including storage; Manage water use to sustain optimal agricultural economy through the Basin's communities; Promote water management and administrative practices that are adaptive, flexible, and responsive to optimize multiple benefits. In addition, this effort will assist Colorado's Water Plan achieve the Critical Actions called for in Chapter 10, such as; maintain agricultural viability, and support agricultural conservation and efficiency.

Issues/Additional Needs: The applicant shall submit all letters of matching commitment prior to entering into a grant contract with the state, otherwise there are no issues or additional needs.

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
Great Outdoors Colorado	\$280,505	\$0	\$280,505	Secured
NRCS	\$236,500	\$0	\$236,500	Pending
LOR Foundation	\$70,000	\$0	\$70,000	Pending
Landowner	\$0	\$331,000	\$331,000	Pending
Sub-total	\$587,005	\$331,000	\$918,005	
WSRF Rio Grande Basin Account	\$5,821	\$0	\$5,821	Secured
Sub-total	\$592,826	\$331,000	\$923,826	
WSRF Statewide Account	\$52,679	n/a	\$52,679	
Total Project Costs	\$645,505	\$331,000	\$976,505	

CWCB Project Manager: Craig Godbout

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(m)**

Applicant & Grantee: Colorado Open Lands

Water Activity Name: Schaefer Farms Conservation Easement

Water Activity Purpose: Ag & Environmental - Implementation

County: Conejos

Drainage Basin: Rio Grande

Water Source: Conejos River

Amount Requested: \$23,284 Rio Grande Basin Account
\$209,266 Statewide Account
\$232,550 Total Request

Matching Funds: Basin Account Match = \$23,284

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

Applicant & 3rd Party Match (cash & in-kind) = \$987,900

- 472% of the statewide request (meets 10% min)

Total Match (Basin & Applicant) = \$1,011,184

- 483% of the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$23,284 from the Rio Grande Basin Account and up to \$209,266 from the Statewide Account to help fund the project: Schaefer Farms Conservation Easement.

Water Activity Summary: WSRF Funds, if approved will assist Colorado Open Lands to provide the remaining needed funding to purchase a conservation easements on Schaefer Farms. The 932-acre Schaeffer Farms have significant senior water rights and is part of an important agricultural corridor and part of Colorado Open Lands landscape priorities for the San Luis Valley. A conservation easement on Schaefer farms will tie its senior water rights to the property. Schaefer Farms is irrigated with senior water rights, that include: Monte Vista Canal (8 shares); Santa Maria Canal (10) and Horner-Ydren (4.2 cfs). The ranch also utilizes one high-capacity irrigation well. All of this helps ensure that the farms prime soils are protected. Prime soil is a designation given by the Natural Resources Conservation Service and is used to describe land that has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber, and oilseed crops and that is available for these uses. It has the combination of soil properties, growing season, and moisture supply needed to produce sustained high yields of crops in an economic manner if it is treated and managed according to acceptable farming methods. In general, prime farmland has an adequate and dependable water supply from precipitation or irrigation, a favorable temperature and growing season, an acceptable level of acidity or alkalinity, an acceptable content of salt or sodium, and few or no rocks. Its soils are permeable to water and air and produce alfalfa, canola, barley and native grass hay. This project is an important addition in preserving the agricultural landscape and the historic water use patterns along the

important Rio Grande River corridors, by reducing the threat of encroaching subdivisions this easement will maintain active wildlife corridors and ensuring the delivery of critical water resources.

Discussion: This effort will assist the Rio Grande Basin Roundtable meet their needs as identified in the Rio Grande Basin Implementation Plan, such as; Sustain the confined and unconfined aquifers in accordance with Senate Bill 04-222 and operate within the State Engineer's new Rules and Regulations for the San Luis Valley; Operate, maintain, rehabilitate, and create necessary infrastructure to meet the Basin's long-term water needs, including storage; Manage water use to sustain optimal agricultural economy through the Basin's communities; Promote water management and administrative practices that are adaptive, flexible, and responsive to optimize multiple benefits. In addition, this effort will assist Colorado's Water Plan achieve the Critical Actions called for in Chapter 10, such as; maintain agricultural viability, and support agricultural conservation and efficiency.

Issues/Additional Needs: The applicant shall submit all letters of matching commitment prior to entering into a grant contract with the state, otherwise there are no issues or additional needs.

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
Colorado Parks & Wildlife	\$165,200	\$0	\$165,200	Pending
NRCS	\$425,250	\$0	\$425,250	Pending
LOR Foundation	\$70,000	\$0	\$70,000	Secured
Landowner	\$0	\$327,450	\$337,450	Secured
Sub-total	\$660,450	\$327,450	\$987,900	
WSRF Rio Grande Basin Account	\$23,284	\$0	\$23,284	Secured
Sub-total	\$683,734	\$327,450	\$1,011,184	
WSRF Statewide Account	\$209,266	n/a	\$209,266	
Total Project Costs	\$893,000	\$327,450	\$1,220,450	

CWCB Project Manager: Craig Godbout

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(n)**

Applicant & Grantee: Rio Grande Watershed Conservation & Education Initiative
Water Activity Name: Rio Grande Basin Roundtable Community Education Liaison
Water Activity Purpose: Education/Implementation
County: Alamosa, Mineral, Rio Grande, Costilla, Conejos & Saguache
Drainage Basin: Rio Grande
Water Source: n/a
Amount Requested: \$133,500 Rio Grande Basin Account
Matching Funds: Applicant Match = \$50,400
• 38% of Basin Account request (meets 25% min)

Staff Recommendation:
Staff recommends approval of up to \$133,500 from the Rio Grande Basin Account to help fund the project: Rio Grande Basin Roundtable Community Education Liaison.

Water Activity Summary: WSRF Funds, if approved will assist the Rio Grande Watershed Conservation & Education Initiative (RGWCEI), the public outreach arm of the Rio Grande Basin Roundtable, to increase time and effort on projects beneficial to the Rio Grande Basin by using partner and WSRF funds to provide administrative support in the form of a full-time Roundtable staff liaison. These projects will include assisting with Basin Implementation Plan updates alongside the Local Expert and the state contractor, implementing the newly drafted Statewide Water Education Action Plan, and spearheading the projected Water 2022 campaign. As mandated by the Colorado Water Plan, PEPO activities are vital to facilitating community understanding of and engagement with water use, particularly within the Rio Grande Basin. This community engagement is even more important as our Basin assesses and implements the Basin Implementation Plan updates as well as the other statewide water education initiatives which will entail a great amount of effort and planning. The Rio Grande Watershed Conservation & Education Initiative is asking the Roundtable for funding for a 3 year cycle of interrelated communication, media, and event strategies on behalf of the Roundtable and other water district partners. The purpose of these strategies is to provide high quality Roundtable projects that raise awareness, provide education, and promote engagement with water issues affecting the Rio Grande Basin and the state of Colorado. The strategies are reflective of the needs of the Roundtable for increasing interaction with the community on a long-term basis. All the strategies have multiple purposes and will include collaborations and partnerships to achieve success.

Discussion: This effort will assist the Rio Grande Basin Roundtable achieve the goals of: Operate, maintain, rehabilitate, and create necessary infrastructure to meet the Basin's long-term water needs, including storage; Support the development of projects and methods that have multiple benefits for agricultural, municipal and industrial, and environmental and recreational water needs; and Establish a

long-term education and outreach effort for water use and needs in the San Luis Valley/Rio Grande Basin as called for in the Rio Grande Basin Implementation Plan.

Issues/Additional Needs: Prior to entering into a grant contract with the state, the applicant must submit all letters of matching commitment, otherwise there are no additional issues or needs.

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
RGWCEI	\$12,000	\$0	\$12,000	Secured
CWCB PEPO Basin Allocation	\$19,500	\$0	\$19,500	Pending
Rio Grande Watershed Association of Cons Districts	\$4,500	\$0	\$4,500	Pending
Rio Grande Basin Roundtable Partners	\$0	\$14,400	\$14,400	Pending
Sub-total	\$36,000	\$14,400	\$50,400	
WSRF Rio Grande Basin Account	\$133,500	\$0	\$133,500	Secured
Total Project Costs	\$169,500	\$14,400	\$183,900	

CWCB Project Manager: Craig Godbout

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(o)**

Applicant & Grantee: New Cenicero Ditch Company
Water Activity Name: Cenicero Diversion Dam, Headgate and Bank Stabilization
Water Activity Purpose: Env & Rec/M&I - Study
County: Ouray
Drainage Basin: Rio Grande
Water Source: Rio San Antonio
Amount Requested: \$106,000 Rio Grande Basin Account
\$318,000 Statewide Account
\$424,000 Total Request

Matching Funds: Basin Account Match = \$106,000

- 33% of statewide request (meets 10% min)

Applicant & 3rd Party Match (cash) = \$759,788

- 238% of the statewide request (meets 10% min)

Total Match (Basin & Applicant) = \$865,788

- 272% of the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$106,000 from the Rio Grande Basin Account and up to \$318,000 from the Statewide Account to help fund the project: Cenicero Diversion Dam, Headgate and Bank Stabilization.

Water Activity Summary: WSRF Funds, if approved will assist the New Cenicero Ditch Company (NCDC) improve water delivery and administration of water rights for all users along with improving terrestrial and aquatic habitats on the Rio San Antonio. The project will upgrade the diversion dam and headgate to allow for effective water delivery for share holders and administration of water rights by the NCDC, reduce erosion of the river banks and improve riparian habitat through various restoration activities, and will incorporate fish passage infrastructure along approximately 440 feet of the Rio San Antonio. These improvements will eliminate the need for annual heavy equipment use in the active channel to repair the infrastructure. The NCDC is working with NRCS, Colorado Parks and Wildlife, and others to develop and complete the construction and restoration of the proposed project.

Discussion: This effort will assist the Rio Grande Basin Roundtable meet 9 of the 14 goals (1, 2, 4, 5, 6, 9, 10, 11, 12) of the Rio Grande Basin Implementation Plan (BIP) including meeting multiple benefits for agriculture and environmental water needs. This project on the Rio San Antonio meets multiple objectives stated in the Colorado Water Plan (CWP) including upholding Colorado water law system namely prior appropriation doctrine, supporting development of multipurpose projects, maintaining wetland and riparian areas and self-sustaining fisheries and functional riparian habitats,

and promoting the sustainability of habitats for threatened and endangered species (Chapters 6 and 9, CWP).

Issues/Additional Needs: The applicant shall submit to CWCB all required match letters of commitment prior to entering into a grant contract with the state, otherwise there are no additional issues or needs.

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
NRCS	\$759,788	\$0	\$759,788	Pending
WSRF Rio Grande Basin Account	\$106,000	\$0	\$106,000	Secured
Sub-total	\$865,788	\$0	\$865,788	
WSRF Statewide Account	\$318,000	n/a	\$318,000	
Total Project Costs	\$1,183,788	\$0	\$1,183,788	

CWCB Project Manager: Craig Godbout

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(p)**

Applicant & Grantee: Montezuma Land Conservancy

Water Activity Name: Innovative Agricultural Management and Colorado's Next Generation of Water Leaders

Water Activity Purpose: Multi-Purpose - Implementation

County: Montezuma

Drainage Basin: Southwest

Water Source: n/a

Amount Requested: \$24,192 Southwest Basin Account

Matching Funds: Applicant & 3rd Party Match (cash) = \$69,251

- 286% of the Basin Account request (meets 25% min)

Staff Recommendation:

Staff recommends approval of up to \$24,192 from the Southwest Basin Account to help fund the project: Innovative Agricultural Management and Colorado's Next Generation of Water Leaders .

Water Activity Summary: WSRF Funds, if approved will assist the Montezuma Land Conservancy bring together a diverse collaboration of partners in Montezuma County to engage, educate, and empower youth, agricultural producers, and the general public. Their goal is to help create a more resilient, connected, and collaborative community that is positioned to transition into the future of water in Colorado in the face a changing climate and a growing population. The project is broken into two objectives described below. To accomplish this goal, they will bring together dedicated community partners to collaborate on a project that no single partner would be able to carry out on their own. The project will utilize MLC's education center, called Fozzie's Farm, as a site for research and public education. The research component will look at regenerative agricultural strategies that focus on building soil health as a method for conserving water, and the use of soil moisture technology as a method for more efficient irrigation applications.

Discussion: This effort will assist the Southwest Basin Roundtable meet the Goals A4, B2 and C, as described in their Basin Implementation Plan, and compliments the SWBRT's Education Action Plan as well as assisting Colorado's Water Plan achieve the goals of reducing the Supply Demand Gap, Agriculture, and Education, Outreach , and Innovation.

Issues/Additional Needs: None

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
Gates Family Foundation	\$30,720	\$0	\$30,720	Secured
Great Outdoors Colorado	\$38,531	\$0	\$38,531	Secured
Sub-total	\$69,251	\$0	\$69,251	
WSRF Soputhwest Basin Account	\$24,192	\$0	\$24,192	Secured
Total Project Costs	\$93,443	\$0	\$93,443	

CWCB Project Manager: Craig Godbout072

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(q)**

Applicant & Grantee: Mountain Studies Institute
Water Activity Name: 416-Fire Aquatic Monitoring Year 2
Water Activity Purpose: Multi-Purpose - Study
County: La Plata
Drainage Basin: Southwest
Water Source: Hermosa Creek, Animas River, and Junction Creek
Amount Requested: \$19,088 Southwest Basin Account
Matching Funds: Applicant Match & 3rd Parties = \$105,935
• 505% of the Basin Account request (meets 25% min)

Staff Recommendation:
Staff recommends approval of up to \$19,088 from the Southwest Basin Account to help fund the project: 416-Fire Aquatic Monitoring Year 2.

Water Activity Summary: WSRF Funds, if approved will assist the Mountain Studies Institute investigate impacts and recovery of water quality and aquatic life following the 416-Fire, they have 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. While they have begun to see signs of recovery one year after the fire (e.g., recovering benthic communities, less elevated water quality contaminants), it is unknown how these impacts may persist into 2020 and how long it will take before water quality and aquatic life fully recover. It is notable that southwest Colorado experienced a weak monsoon season in 2019. With the possibility of a stronger monsoon season in 2020, there is a need to continue monitoring downstream of the 416-burn area to characterize further impacts to water quality and aquatic life. They are requesting funding to continue our research efforts to:

- Evaluate water quality impacts on Hermosa Creek and the Animas River from the 416-Fire in context of the use of these waters for irrigation, water supply, recreation, and aquatic life.
- Document the recovery of water quality and aquatic life following the 416-Fire to share with concerned public members and more broadly to further our understanding of the recovery of river health after a wildfire.
- Establish monitoring sites on Hermosa Creek and Junction Creek to serve as watershed comparisons of differing forest health, fire history, and forest health treatments.

Discussion: This effort will assist the Southwest Basin Roundtable meet the Goals and Measurable Outcomes H1, A2, A4, A5, C2, D1, E1, E2, F1 as described in their Basin Implementation Plan and the SWBRT Chair's Recommendation Letter.

Issues/Additional Needs: The applicant shall provide all outstanding letter of matching commitment prior to entering into a grant contract with the state, otherwise there are no issues or additional needs.

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
Colorado School of Mines	\$4,792	\$27,861	\$32,653	Pending
USFS	\$0	\$11,330	\$11,330	Pending
RG Watershed Emergency Action Coor Team	\$0	\$21,000	\$21,000	Pending
Colorado Healthy Rivers Fund	\$19,802	\$0	\$19,802	Pending
Southwest Water Conservancy District	\$7,800	\$0	\$7,800	Pending
City of Durango	\$5,000	\$0	\$5,000	Pending
Community Emergency Relief Fund	\$2,000	\$0	\$2,000	Pending
Animas Water Company	\$500	\$0	\$500	Pending
CDPHE	\$0	\$5850	\$5,850	Pending
Sub-total	\$39,894	\$66,041	\$105,935	
WSRF Southwest Basin Account	\$19,088	\$0	\$19,088	Secured
Total Project Costs	\$125,023	\$0	\$125,023	

CWCB Project Manager: Craig Godbout

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(r)**

Applicant & Grantee: Mountain Studies Institute

Water Activity Name: Upper San Juan Integrated Water Management Planning – Phase 2

Water Activity Purpose: Multi-Purpose - Study

County: Archuleta & Mineral

Drainage Basin: Southwest

Water Source: San Juan River

Amount Requested: \$42,957 Southwest Basin Account

Matching Funds: Applicant Match & 3rd Parties (cash & in-kind) = \$150,162
• 350% of the Basin Account request (meets 25% min)

Staff Recommendation:

Staff recommends approval of up to \$42,957 from the Southwest Basin Account to help fund the project: Upper San Juan Integrated Water Management Planning – Phase 2.

Water Activity Summary: WSRF Funds, if approved will assist the Mountain Studies Institute develop an understanding of the community's water-related values, environmental and recreational (E&R) water supply needs, and agricultural irrigation structural needs; and to identify and evaluate opportunities for projects to benefit the diversity of water users present in the upper San Juan Basin. This process will evaluate current and future water needs using both community input and scientific analysis, with the ultimate goal of outlining an assessment that can prioritize projects and methods to meet those needs. Informed by coordinated efforts from Phase I (2018-2019), Phase II of the project will develop an assessment to analyze and model needs for environmental, recreational, and agricultural water uses as well identify projects that benefit multiple user groups. This assessment will inform the development of a stream management/integrated water management plan and potentially project implementation in Phase III.

Discussion: This effort will assist the Southwest Basin Roundtable meet the Goals and Measurable Outcomes F1, H1, A2, A4, A5, D1, E1, and E2 as described in their Basin Implementation Plan and the SWBRT Chair's Recommendation Letter.

Issues/Additional Needs: The applicant shall provide all outstanding letter of matching commitment prior to entering into a grant contract with the state, otherwise there are no issues or additional needs.

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	\$1,957	\$0	\$30,014	Secured
Colorado State University	\$0	\$700	\$700	Secured
Banded Peak Ranch	\$11,000	\$0	\$11,000	Secured
NRCS	\$0	\$8,000	\$8,000	Pending
San Juan Conservation District	\$2,030	\$0	\$2,030	Secured
Trout Unlimited	\$2,000	\$8,000	\$10,000	Secured
CWCB Watershed Restoration Program Grant	\$85,914	\$0	\$85,914	Secured
Southwest Water Conservancy District	\$17,158	\$0	\$17,518	Secured
San Juan Water Conservancy District	\$2,000	\$0	\$2,000	Secured
Pagosa Tourism Board	\$2,500	\$0	\$2,500	Secured
Town of Pagosa Springs	\$2,500	\$0	\$2,500	Secured
The Nature Conservancy	\$1,000	\$0	\$1,000	Secured
Watershed Enhancement Partnership	\$0	\$5,043	\$5,043	Secured
Sub-total	\$128,419	\$21,743	\$150,162	
WSRF Southwest Basin Account	\$42,957	\$0	\$42,957	Secured
Total Project Costs	\$171,376	\$21,743	\$193,119	

CWCB Project Manager: Craig Godbout

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(s)**

Applicant & Grantee: Southwest Conservation Corps

Water Activity Name: Dolores River Restoration Partnership Revegetation and Outreach

Water Activity Purpose: Multi-Purpose - Implementation

County: Mesa, San Miguel & Dolores

Drainage Basin: Southwest

Water Source: Dolores River

Amount Requested: \$25,000 Southwest Basin Account

Matching Funds: Applicant Match & 3rd Parties = \$26,483

- 185% of the Basin Account request (meets 10% min)

Staff Recommendation:

Staff recommends approval of up to \$25,000 from the Southwest Basin Account to help fund the project: Dolores River Restoration Partnership Revegetation and Outreach.

Water Activity Summary: WSRF Funds, if approved will assist the Southwest Conservation Corps to restore the Dolores River corridor that has been impaired by invasive plants. The DRRP seeks funds for the following three water activities to help maintain efficacy on over 1,900 acres of tamarisk treatments conducted to date:

- A volunteer active revegetation event along the Dolores in fall of 2020 with the Wildland Restoration Volunteers (WRV). Active revegetation (i.e. seeding or planting native riparian vegetation) is a critical activity on certain restoration sites to ensure establishment of native plants. The DRRP has worked with the WRV every year since 2015 on projects including tamarisk re-sprout treatments, baffle construction, and cottonwood planting. The 2020 revegetation event will be held along the Dolores River near Gateway, CO and effect approximately 8 acres of riparian land managed by the Grand Junction BLM Field Office and/or the Gateway Canyons Resort.
- An annual partnership meeting for DRRP partners in Dolores, Colorado. Traditionally, these day-long meetings are very well attended and remain the best platform for information sharing, goal-setting, and large-scale coordination between the DRRP's myriad of partners in Southwest Colorado and Utah.
- Project and event coordination by Southwest Conservation Corps (SCC) and RiversEdge West staff.

Discussion: This effort will assist the Southwest Basin Roundtable meet the Goals and Measurable Outcomes A4, A5, D1, E1, and E2 as described in their Basin Implementation Plan and the SWBRT Chair's Recommendation Letter.

Issues/Additional Needs: The applicant shall provide all outstanding letter of matching commitment prior to entering into a grant contract with the state, otherwise there are no issues or additional needs.

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
Wilderness Restoration Volunteers	\$0	\$12,200	\$12,200	Pending
BLM	\$6,620	\$0	\$6,620	Pending
BLM SCC Assistance Agreement	\$2,663	\$0	\$2,663	Pending
DRRP Restore Our Rivers	\$5,000	\$0	\$5,000	Secured
Sub-total	\$14,283	\$12,200	\$26,483	
WSRF Southwest Basin Account	\$25,000	\$0	\$25,000	Secured
Total Project Costs	\$39,283	\$12,200	\$51,483	

CWCB Project Manager: Craig Godbout

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(t)**

Applicant & Grantee: Upper Road 42 Water Association
Water Activity Name: Upper Road 42 Water Extension Phase 1
Water Activity Purpose: M&I/Needs Assessment - Study
County: Montezuma
Drainage Basin: Southwest
Water Source: Unidentified
Amount Requested: \$11,300 Southwest Basin Account
Matching Funds: Applicant Match & 3rd Parties = \$18,870
• 170% of the Basin Account request (meets 10% min)

Staff Recommendation:
Staff recommends approval of up to \$11,300 from the Southwest Basin Account to help fund the project: Upper Road 42 Water Extension Phase 1.

Water Activity Summary: WSRF Funds, if approved will assist the Upper Road 42 Water Association in their efforts to design, construct, and install an extension of the Mancos Rural Water Company water system in order to provide domestic water to 27 properties from Road N north to the Forest Service Boundary on County Road 42 in Mancos, Colorado. The proposed project includes: An above-ground pump station located at the top of Jackson dam on Road N (Option A) or at the Mancos Rural Water treatment plant, located at the base of the Jackson Lake dam (Option B). Approximately 12,000 ft of 4" C900 pipe, installed in the utility easement and bar ditch on the south side of Road N and west side of Road 42 extending from the new pump station east along Road N and north to the Forest Service boundary on Road 42. A new 20,000 gallon above-ground polypropylene or steel water storage tank located on the northwest corner of Connie and Huston Anderson's property. The WSRF funding will be used to pay for Phase 1 of the project: preliminary engineering of the system, a feasibility study, and costs associated with the formation of an Improvement District for the project.

Discussion: This effort will assist the Southwest Basin Roundtable meet the Goals and Measurable Outcomes to "Provide safe drinking water to Southwest Colorado's citizens and visitors" as described in their Basin Implementation Plan and the SWBRT Chair's Recommendation Letter.

Issues/Additional Needs: The applicant shall provide all outstanding letter of matching commitment prior to entering into a grant contract with the state, otherwise there are no issues or additional needs.

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
Upper Road 42 Water Association	\$6,240	\$1,500	\$7,740	Secured
Southwest Water Conservation District	\$11,130	\$0	\$11,130	Pending
Sub-total	\$17,370	\$1,500	\$18,870	
WSRF Southwest Basin Account	\$11,130	\$0	\$11,130	Secured
Total Project Costs	\$28,500	\$1,500	\$30,000	

CWCB Project Manager: Craig Godbout

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(u)**

Applicant & Grantee: Colorado Trout Unlimited

Water Activity Name: South Boulder Creek Stream Management Plan Phase 2 & Preliminary Infrastructure Design

Water Activity Purpose: M&I/Needs Assessment - Study

County: Montezuma

Drainage Basin: South Platte

Water Source: South Boulder Creek

Amount Requested: \$40,000 South Platte Basin Account
\$40,000 Metro Account
\$80,000 Total request

Matching Funds: Applicant & 3rd Parties Match = \$241,000

- 301% of the Basin Account requests (meets 10% min)

Staff Recommendation:
Staff recommends approval of up to \$40,000 from the South Platte Basin Account and \$40,000 from the Metro Account to help fund the project: South Boulder Creek Stream Management Plan Phase 2 & Preliminary Infrastructure Design.

Water Activity Summary: WSRF Funds, if approved will assist Colorado Trout Unlimited complete the Stream Management Plan (SMP) effort for South Boulder Creek in Boulder County, on the ~9 miles from the mouth of Eldorado Canyon to the Boulder Creek confluence. This stretch is notable as a working river delivering water to many users (17 ditch head gates with diversion structures), for extensive public recreational access (along ~5 miles of City of Boulder open space), and potential environmental value for native species (8 sensitive, threatened or endangered). In Phase I, they established a core stakeholder group/SMP steering committee, launched broader stakeholder communications, established a river health assessment methodology, assessed and prioritized in-stream physical infrastructure, and sampled representative channel cross-sections for flow requirements. With Phase II, they propose to close data gaps in support of the river health assessment, complete flow and physical condition assessments, complete the RHA analysis across flow and physical condition scenarios; document physical infrastructure modification concepts / engineering designs (15-20% for 2 highest priority structures, 5-10% for 3 lower priority structures), and execute the stakeholder communications plan to expand awareness and engagement. Funds will be used primarily for contractors: professional services in support of data management and analysis, survey and modeling, engineering design, outreach, associated information technology.

Discussion: This effort will assist the South Plate Basin and Metro Roundtables achieve several goals as called for in the South Platte Basin Implementation Plan, such as: Protect and enhance environmental and recreational attributes.

Issues/Additional Needs: The applicant shall identify all matching sources and provide all outstanding letter of matching commitment prior to entering into a grant contract with the state, otherwise there are no issues or additional needs.

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
Trout Unlimited	\$15,000	\$20,000	\$35,000	Secured
City of Lafayette	\$0	\$2,000	\$2,000	Pending
Denver Water	\$10,000	\$3,000	\$13,000	Secured
City of Boulder	\$20,000	\$8,000	\$28,000	Pending
USFWS	\$40,000	\$0	\$40,000	Pending
Great Plains Fish Recovery Program	\$20,000	\$0	\$20,000	Pending
Unidentified Sources	\$103,000	\$0	\$116,000	Pending
Sub-total	\$208,000	\$33,000	\$241,000	
WSRF South Platte Basin Account	\$40,000	\$0	\$40,000	Secured
WSRF Metro Account	\$40,000	\$0	\$40,000	Secured
Total Project Costs	\$288,000	\$33,000	\$321,000	

CWCB Project Manager: Chris Sturm

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(v)**

Applicant & Grantee: Colorado Department of Water Resources

Water Activity Name: Data Logger/Telemetry Installation Project, South Platte River Basin (Division 1)

Water Activity Purpose: Agricultural/M&I - Implementation

County: Multiple in SP Basin (see map)

Drainage Basin: South Platte

Water Source: South Platte and tributaries

Amount Requested: \$100,000 South Platte Basin Account
\$190,000 Statewide Account
\$290,000 Total Request

Matching Funds: Basin Account Match = \$100,000

- 52% of statewide request (meets 10% min)
Applicant Match & 3rd Parties = \$179,610
- 94% of the statewide request (meets 10% min)
Total Match (Basin & Applicant) = \$279,610
- 147% of the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$100,000 from the South Platte Basin Account, and \$190,000 from the Statewide Account to help fund the project: Data Logger/Telemetry Installation Project, South Platte River Basin (Division 1).

Water Activity Summary: WSRF Funds, if approved will assist the Division 1 of the Colorado Dept. of Water Resources to install stage sensors, recorder and/or telemetry on 114 sites where measurement of water stage and discharge is needed to determine either In-Stream Flow or diversions into or out of a ditch, canal or reservoir. The locations of these structures include those on the main stem of the South Platte and its tributaries including Districts 1, 2, 3, 4, 5, 6, 7, 8, 9 and 80. Data loggers and telemetry have been set up on many major diversion structures downstream of Denver in prior cooperative projects between Northern Water, Lower South Platte Water Conservancy District, St. Vrain and Left Hand Water Conservancy District and the Division of Water Resources (DWR).

Data loggers allow for continuous water flow information for water users and water administrators and the more efficient use of administrative staff resources. This project will provide an excellent complement to the State's existing diversion and stream gage satellite program and is also complimentary to the work being done for the Colorado Decision Support System in obtaining better data concerning river flows and diversions and for the Accretion/Depletion Analysis Tool.

The installation of this equipment will be of great benefit to water commissioners by allowing more efficient administration due to more timely availability of information on diversions and In-Stream Flow sites.

Installation of this equipment allows near real time accounting to occur for augmentation of wells and direct diversions for augmentation and recharge. This is critical for augmentation plans as real time information is necessary to determine recharge and direct flow credits to assure there is no injury to senior water rights. Real time data also helps the water commissioner make a faster response regarding exchange potential at various points on the river to water users who wish to operate an exchange.

Maximizing the use of existing water supplies within the South Platte basin for decreed purposes with existing infrastructure is the first step in meeting the future needs of users along the South Platte and its tributaries. The increase in the use of data loggers and telemetry has improved administration by allowing DWR staff to administer water rights real time. The use of data loggers also allows data to be made available in a timely manner.

Discussion: This effort will assist the South Platte Basin Roundtable meet the Goals and Measurable Outcomes, as identified in Sections 2.3, 3.1.1, 3.1.3, 3.1.8, 3.2.1.2, 4.3.3.2 and 5.0, and in the SPBRT Chair's Recommendation Letter. This effort will also further the Goals of Colorado's Water Plan as called for in Section 4.9.

Issues/Additional Needs: None

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
DWR	\$37,210	\$7,052	\$44,262	Secured
Xcel	\$0	\$46,000	\$46,000	Secured
City of Boulder Open Space & Mtn Parks	\$10,000	\$31,400	\$41,440	Secured
Boulder Ditch Companies	\$0	\$45,000	\$45,000	Secured
City of Boulder Public Works	\$0	\$2,948	\$2,948	Secured
Sub-total	\$47,210	\$132,400	\$179,610	
WSRF South Platte Basin Account	\$100,000	\$0	\$100,000	Secured
Sub-total	\$147,210	\$132,400	\$279,610	
Statewide Account	\$190,000	n/a	\$190,000	
Total Project Costs	\$378,210	\$132,400	\$469,610	

CWCB Project Manager: Craig Godbout

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(w)**

Applicant & Grantee: Trout Unlimited

Water Activity Name: Lower Elkhead Creek Restoration Project, Phase 1

Water Activity Purpose: Environmental & Agricultural - Implementation

County: Routt & Moffat

Drainage Basin: Yampa/White/Green

Water Source: Lower Elkhead Creek

Amount Requested: \$50,000 Yampa/White/Green Basin Account
\$150,000 Statewide Account
\$200,000 Total Request

Matching Funds: Basin Account Match = \$50,000

- 300% of statewide request (meets 10% min)

Applicant Match & 3rd Parties = \$1,300,000

- 867% of the statewide request (meets 10% min)

Total Match (Basin & Applicant) = \$1,350,000

- 900% of the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$50,000 from the Yampa/White/Green Basin Account, and \$150,000 from the Statewide Account to help fund the project: Lower Elkhead Creek Restoration Project, Phase 1.

Water Activity Summary: WSRF Funds, if approved will assist the Trout Unlimited restore 30 acres of riverine and riparian habitat, and will a) help stabilize the creek channel, b) increase resiliency to flooding, drought and human activity, c) protect local agriculture, d) provide tangible benefits to wildlife, and e) improve water quality. Trout Unlimited (TU) will partner with private landowners and a variety of agencies to restore the riparian corridor along Elkhead Creek, utilizing measures such as bank regrading, structural bank reinforcement, strategic plantings of native riparian species and adjusted land management. The Water Supply Reserve Fund (WSRF) money requested from Colorado Water Conservation Board (CWCBC) would be used to secure an adequate supply riparian vegetation (purchased and/or harvested locally), purchase additional restoration materials and complete project construction.

Discussion: This effort will assist the Yampa/White/Green Basin Roundtable meet the Goals and Measurable Outcomes #4, 5, 6, 7, 8, as identified in the application and in the Yampa/White/Green Basin Implementation Plan, as well as assist Colorado's Water Plan achieve the goal of enhancing environmental and recreational economic values, protect healthy environments, promote protection and restoration of water quality, and protect and restore critical watersheds as called for in Chapter 10.

Issues/Additional Needs: The applicant shall submit all outstanding letters of matching commitment prior to entering into a grant contract with the state; otherwise, there are no issues or additional needs.

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
Trout Unlimited	\$10,000	\$9,000	\$19,000	Secured
NRCS	\$46,000	\$105,000	\$46,000	Secured
NRCS	\$854,000	\$0	\$854,000	Pending
USFWS	\$5,000	\$0	\$5,000	Secured
CPW Wetlands Program	\$50,000	\$0	\$50,000	Secured
CWCB Watershed Restoration Program Grant	\$100,000	\$0	\$100,000	Secured
Colorado River Water Conservation District	\$5,000	\$0	\$5,000	Secured
Lorraine Kawcak	\$10,000	\$5,000	\$15,000	Pending
Laine O'Neal	\$8,000	\$3,000	\$11,000	Pending
Keith Pankey	\$15,000	\$5,000	\$20,000	Pending
Eric Hamilton	\$8,000	\$2,000	\$10,000	Pending
City of Craig	\$10,000	\$0	\$10,000	Pending
Yampa River Fund	\$50,000	\$0	\$50,000	Pending
Sub-total	\$1,171,000	\$129,000	\$1,300,000	
WSRF Yampa/White/Green Basin Account	\$50,000	\$0	\$50,000	Secured
Sub-total	\$1,221,000	\$129,000	\$1,350,000	
Statewide Account	\$150,000	n/a	\$150,000	
Total Project Costs	\$1,371,000	\$129,000	\$1,500,000	

CWCB Project Manager: Chris Sturm

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(x)**

Applicant & Grantee: Colorado State University – Colorado Climate Center

Water Activity Name: Continuation of Weather Stations for North Park Lysimeters to determine high altitude, hay meadow crop coefficients.

Water Activity Purpose: Agricultural

County: Jackson

Drainage Basin: North Platte

Water Source: n/a

Amount Requested: \$17,844 North Platte Basin Account

Matching Funds: Applicant Match (cash) = \$4,471

- 25% of the Basin Account request (meets 25% min)

Staff Recommendation:

Staff recommends approval of up to \$17,844 from the North Platte Basin Account to help fund the project: Continuation of Weather Stations for North Park Lysimeters to determine high altitude, hay meadow crop coefficients.

Water Activity Summary: WSRF Funds, if approved will assist Colorado State University operate weather stations in North Park to compliment the efforts of the North Platte Basin Roundtable and Colorado River Engineering's lysimeters operations and data collection and reporting (agenda item 23(y)) to better understanding the crop water use requirements from irrigated hay meadows.

Discussion: This effort will assist the North Platte Basin Roundtable meet the Goal #1: Maintain and maximize the consumptive use of water permitted in the Equitable Apportionment Decree and the baseline depletion allowance of the Three State Agreement as described in their Basin Implementation Plan.

Issues/Additional Needs: None

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
Colorado State University	\$4,471	\$0	\$4,471	Secured
WSRF North Platte Basin Account	\$17,844	\$0	\$17,844	Secured
Total Project Costs	\$22,315	\$0	\$22,315	

CWCB Project Manager: Craig Godbout

**Water Supply Reserve Fund
Water Activity Summary Sheet
Request for Change of Grantee
March 11-12, 2020
Agenda Item 23(y)**

Current Grantee: Colorado State University – Colorado Climate Center

Proposed Grantee: Colorado River Engineering (CRE)

Water Activity Name: Continuation of Lysimeters in North Park to Determine High Altitude Hay Meadow Crop Coefficients

Water Activity Purpose: Agricultural

County: Jackson

Drainage Basin: North Platte

Water Source: n/a

Amount Requested: \$44,000 North Platte Basin Account (A portion of remaining funds - \$50,468.51)

Matching Funds: See attached memo dated September 11-12, 2014

Staff Recommendation:

Staff recommends approval of change of grantee from Colorado State University to Colorado River Engineering.
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Water Activity Summary: In order for the North Platte Basin to better quantify consumptive use in the basin, this project aims continue lysimeter measurements in the high altitude, hay meadow environment of North Park. Although lysimeters have been historically run in the basin, the data have been deemed questionable due to site exposure, infrequent watering and what appears to be a leak in one of the compensating lysimeters. This project will utilize the three existing weather stations to calculate American Society of Civil Engineers reference evapotranspiration ET. Two lysimeters have been installed side by side at the Cowdrey site for redundancy in case of failure. The lysimeters being collocated with the COW01 weather station allows for actual consumptive use from the meadow to be directly compared to Reference ET estimates calculated from the weather variables. These two measurements are then used to calculate crop coefficients for hay meadow environment. The lysimeters have been installed in an undisturbed soil column adjacent to the station. The two lysimeters and the hay meadow are equipped with soil moisture sensors in order to keep conditions in the lysimeters as close to field conditions as possible. The lysimeter platform includes a bi-directional pump that can add or remove water from the system to keep it in the same conditions as the field. Once data is collected for several seasons, a final report will be drafted which summarizes the work and reports on findings.

Discussion: The original grant was approved by CWCB during their September 11-12, 2014 meeting and expired December 31, 2019. This approval granted WSRF Funds to CSU to install and operate the lysimeters, and operate the CoAgMet station in North Park, however due to personnel changes at CSU they no longer have the expertise to operate the existing lysimeters, however Colorado River Engineering, hence the request for a change of grantee. While CRE will (with CWCB approval) assume responsibility for lysimeters operation, Colorado State University has applied for new WSRF Grant via the North Platte Basin Roundtable (see Agenda Item 22(x)).

Issues/Additional Needs: None

CWCB Project Manager: Craig Godbout