



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: March 6, 2018

AGENDA ITEM: 25 (a-dd): WSRF Grant Requests

Staff Recommendation - Action Items: WSRF Grant Requests

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

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

The initial WSRF Statewide Account Grant requests for March 2018 exceeded the available funding (\$2,160,957) by \$148,678. To address this imbalance CWCB staff worked with one of the Loan/Grant combo applicants (Trinchera Irrigation Company) to reduce their request to achieve a better loan/grant balance. Their request was reduced by \$149,438, bringing the total Statewide Account request to \$2,160,197, with \$760 remaining in the Statewide Account.

Subsequently the Statewide Account was credited with interest that has accrued over the past several months from the combined Basin Accounts and the Statewide Account. The amount of interest credited was \$146,301, therefore the remaining Statewide Account balance would be \$147,061 if all Statewide Account Grants are approved as recommended.

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 2018

3/5/2018

| Fund Appropriation and Receipts | | | | |
|--|----------------------------------|-----------------------|--------------------------|----------------------|
| Fiscal Year | Legislative Appropriation | Funds Received | Statewide Account | Basin Account |
| 2006/2007 | \$10,000,000 | \$10,000,000 | \$5,500,000 | \$4,500,000 |
| 2007/2008 | \$6,000,000 | \$6,000,000 | \$4,200,000 | \$1,800,000 |
| 2008/2009 | \$10,000,000 | \$7,000,000 | \$4,300,000 | \$2,700,000 |
| 2009/2010 | \$5,775,000 | \$5,775,000 | \$4,215,750 | \$1,559,250 |
| 2010/2011 | \$6,000,000 | \$6,000,000 | \$4,380,000 | \$1,620,000 |
| 2011/2012 | \$7,000,000 | \$7,000,000 | \$4,732,000 | \$2,268,000 |
| 2012/2013 | \$10,000,000 | \$7,157,724 | \$4,580,943 | \$2,576,781 |
| 2013/2014 | \$10,000,000 | \$10,091,639 | \$6,458,649 | \$3,632,990 |
| 2014/2015 | \$10,000,000 | \$10,000,000 | \$6,400,000 | \$3,600,000 |
| 2015/2016 | \$10,000,000 | \$9,103,590 | \$5,826,298 | \$3,277,292 |
| 2016/2017 | \$0 | \$0 | \$0 | \$0 |
| 2017/2018 | \$10,000,000 | \$1,455,776 | \$931,697 | \$524,079 |
| 2017/2018 CF | \$10,000,000 | \$7,000,000 | \$4,480,000 | \$2,520,000 |
| Interest | N/A | \$2,857,935 | \$1,829,078 | \$0 |
| Prior Years Interest Adjustment | | | \$1,028,856 | \$0 |
| 2014/2015 Interest | N/A | \$ 240,216 | \$240,216 | \$0 |
| 2015/2016 Interest | N/A | \$ 219,458 | \$219,458 | \$0 |
| 2016/2017 Interest | N/A | \$ 223,936 | \$223,936 | \$0 |
| 2017/2018 Interest | | \$ 166,500 | \$166,500 | \$0 |
| TOTAL | \$104,775,000 | \$90,291,773 | \$59,713,380 | \$30,578,392 |

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 | \$3,277,482 | \$3,397,599 | \$120,117 | \$10,753,801 | |
| Colorado | \$2,876,079 | \$3,397,599 | \$521,520 | \$6,283,985 | |
| Southwest * | \$2,900,982 | \$3,397,599 | \$496,617 | \$7,293,244 | |
| Gunnison * | \$2,881,110 | \$3,397,599 | \$516,489 | \$5,608,014 | |
| Metro | \$2,780,031 | \$3,397,599 | \$617,568 | \$7,531,732 | |
| North Platte | \$2,209,668 | \$3,397,599 | \$1,187,931 | \$540,942 | |
| Rio Grande | \$3,078,192 | \$3,397,599 | \$319,407 | \$11,267,323 | |
| South Platte * | \$2,801,575 | \$3,397,599 | \$596,024 | \$7,279,112 | |
| Yampa/White | \$2,350,419 | \$3,397,599 | \$1,047,180 | \$847,969 | |
| TOTAL | \$25,155,538 | \$30,578,392 | \$5,422,854 | \$57,406,122 | \$2,307,258 |
| TOTAL APPROVED GRANTS | | | | | \$82,561,660 |

Note: Only includes grants approved by CWCB

| Water Supply Reserve Fund Applications for Consideration at the March 2018 CWC Board Meeting | | | | | | | | | | | | | |
|--|--------------|---|---|--------------------------|----------------------------|---------------|---------------------|------------------------|----------------------|--------------------------------|---------------------|--|---------------|
| Agenda Item | Basin | Applicant | Name of Water Activity | Basin(s) Account Request | Statewide Account Requests | Total Request | Non-WSRF Cash Match | Non-WSRF In-Kind Match | Non-WSRF Total Match | Total Match (Basin & Non-WSRF) | Total Project Costs | Staff Recommendations | PM |
| 25(a) | Gunnison | Redlands Water and Power Company | Pump Plant Modernization Feasibility Study | \$25,500 | \$37,500 | \$63,000 | \$6,000 | \$6,000 | \$12,000 | \$37,500 | \$75,000 | Staff Recommends approval of \$25,500 from the Gunnison Basin Account, and \$37,500 from the Statewide Account | Craig Godbout |
| 25(b) | Gunnison | Ouray County | Upper Uncompaghre Stream Management Plan | \$25,000 | \$83,200 | \$108,200 | \$26,750 | \$0 | \$26,750 | \$51,750 | \$134,950 | Staff Recommends approval of \$25,000 from the Gunnison Basin Account, and \$83,200 from the Statewide Account | Craig Godbout |
| 25(c) | Gunnison | Diane Martin | Tornay Highline Diversion Improvement | \$15,000 | \$0 | \$15,000 | \$19,750 | \$6,000 | \$25,750 | \$40,750 | \$40,750 | Staff Recommends approval of \$15,000 from the Gunnison Basin Account | Craig Godbout |
| 25(d) | Gunnison | Trout Unlimited | Tomichi Water Conservation Project | \$34,500 | \$0 | \$34,500 | \$160,525 | \$24,400 | \$184,925 | \$219,425 | \$219,425 | Staff Recommends approval of \$34,500 from the Gunnison Basin Account | Craig Godbout |
| 25(e) | North Platte | Owl Mountain Partnership | Jackson County Water Structure Improvement Project | \$116,300 | \$0 | \$116,300 | \$94,800 | \$22,000 | \$116,800 | \$233,100 | \$233,100 | Staff Recommends approval of \$116,300 from the North Platte Basin Account | Craig Godbout |
| 25(f) | South Platte | St. Vrain and Left Hand Water Conservancy District | St. Vrain & Left Hand Stream Management Plan | \$50,000 | \$0 | \$50,000 | \$242,500 | \$7,000 | \$249,500 | \$299,500 | \$299,500 | Staff Recommends approval of \$50,000 from the South Platte Basin Account | Chris Sturm |
| 25(g) | South Platte | Lost Creek Groundwater Management District | Lost Creek Designated Basin Instrumentation Project | \$25,000 | \$43,000 | \$68,000 | \$25,000 | \$0 | \$25,000 | \$50,000 | \$93,000 | Staff Recommends approval of \$25,000 from the South Platte Basin Account, and \$43,200 from the Statewide Account | Craig Godbout |
| 25(h) | South Platte | Ducks Unlimited, Inc. | BOR - Narrows Tracts: Shallow Water Wetland Enhancements and Recharge Development | \$50,000 | \$450,000 | \$500,000 | \$657,932 | \$0 | \$657,932 | \$707,932 | \$1,157,932 | Staff Recommends approval of \$50,000 from the South Platte Basin Account, and \$450,000 from the Statewide Account | Craig Godbout |
| 25(i) | Arkansas | Lakeside Estes HOA | Ice Lake Preservation & Augmentation Project | \$2,891 | \$26,019 | \$28,910 | \$7,143 | \$7,143 | \$14,286 | \$17,177 | \$43,196 | Staff recommends approval of up to \$2,891 from the Arkansas Basin Account and \$26,019 from the Statewide Account | Ben Wade |
| 25(j) | Arkansas | Parkville Water District | Mountain Lake Spillway Rebuild | \$6,681 | \$66,814 | \$73,495 | \$31,499 | \$0 | \$31,499 | \$38,180 | \$104,994 | Staff recommends approval of up to \$6,681 from the Arkansas Basin Account and \$66,814 from the Statewide account | Ben Wade |
| 25(k) | Arkansas | Huerfano County Water Conservancy District | Cucharas Collaborative Storage Study - Geotechnical Investigation | \$8,480 | \$84,797 | \$93,277 | \$40,280 | \$0 | \$40,280 | \$48,760 | \$133,557 | Staff recommends approval of up to \$8,480 from the Arkansas Basin Account and \$84,797 from the Statewide Account | Ben Wade |
| 25(l) | Arkansas | Town of Poncha Springs | Poncha Springs Water Infrastructure Improvement Project - Well Development | \$6,000 | \$58,500 | \$64,500 | \$50,500 | \$5,000 | \$55,500 | \$61,500 | \$120,000 | Staff recommends approval of up to \$6,000 from the Arkansas Basin Account and \$58,500 from the Statewide Account | Ben Wade |
| 25(m) | Arkansas | Town of Walsh | Municipal Water Well Feasibility and Evaluation | \$1,000 | \$6,500 | \$7,500 | \$2,500 | \$0 | \$2,500 | \$3,500 | \$10,000 | Staff recommends approval of up to \$1,000 from the Arkansas Basin Account and \$6,500 from the Statewide Account | Ben Wade |
| 25(n) | Colorado | Eagle River Watershed Council | Eagle River Integrated Water Management Plan (ER-IWMP) | \$75,000 | \$0 | \$75,000 | \$287,945 | \$27,000 | \$314,945 | \$389,945 | \$389,945 | Staff recommends approval of up to \$75,000 from the Colorado Basin Account | Megan Holcomb |
| 25(o) | Colorado | Middle Colorado Watershed Council | Middle Colorado Integrated Water Management Plan | \$103,800 | \$0 | \$103,800 | \$235,600 | \$75,800 | \$311,400 | \$415,200 | \$415,200 | Staff recommends approval of up to \$103,000 from the Colorado Basin Account | Megan Holcomb |
| 25(p) | Colorado | Town of Carbondale | Crystal River Restoration and Weaver Ditch Efficiency Project | \$20,700 | \$0 | \$20,700 | \$179,300 | \$0 | \$179,300 | \$200,000 | \$200,000 | Staff recommends approval of up to \$20,700 from the Colorado Basin Account | Megan Holcomb |
| 25(q) | Metro | South Metro WISE Authority | Regional Investigation of Salinity Management Options | \$30,000 | \$97,500 | \$127,500 | \$45,000 | \$22,500 | \$67,500 | \$97,500 | \$195,000 | Staff recommends approval of up to \$30,000 from the Metro Basin Account and \$97,500 from the Statewide Account | Megan Holcomb |
| 25(r) | Metro | Peak Spatial Enterprises/ Chambers Econ and Analytics | Water Information / Real Estate Water Disclosure Site | \$10,000 | \$10,000 | \$20,000 | \$107,500 | \$0 | \$107,500 | \$117,500 | \$127,500 | Staff recommends approval of up to \$10,000 from the Metro Basin Account and \$10,000 from the Statewide Account | Megan Holcomb |
| 25(s) | Metro | Carollo Engineering, Inc. | SWIFT2 - South Platte Watershed One Water Infrastructure Sharing Initiative | \$25,000 | \$0 | \$25,000 | \$0 | \$98,800 | \$98,800 | \$123,800 | \$123,800 | Staff recommends approval of up to \$25,000 from the Metro Basin Account | Megan Holcomb |
| 25(t) | Rio Grande | Rio Grande Headwaters Land Trust | Paulson Conservation Easement | \$18,000 | \$157,000 | \$175,000 | \$100,000 | \$130,000 | \$230,000 | \$248,000 | \$405,000 | Staff recommends approval of up to \$18,000 from the Rio Grande Basin Account and \$157,000 from the Statewide Account | Megan Holcomb |

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|-----------------|------------|---|---|--------------------|--------------------|--------------------|-----------|-----------|-----------|-----------|-----------|--|---------------|
| 25(u) | Rio Grande | Conejos Water Conservancy District | Conejos Diversions: Richfield to Conconco | \$54,692 | \$332,588 | \$387,280 | \$46,500 | \$64,220 | \$110,720 | \$165,412 | \$547,000 | Staff recommends approval of up to \$54,692 from the Rio Grande Basin Account and \$332,588 from the Statewide Account | Megan Holcomb |
| 25(v) | Rio Grande | Trout Unlimited | Spruce Lakes Wilderness Reservoir Maintenance Project | \$65,500 | \$0 | \$65,500 | \$7,500 | \$24,880 | \$32,380 | \$97,880 | \$97,880 | Staff recommends approval of up to \$65,500 from the Rio Grande Basin Account | Megan Holcomb |
| 25(w) | Rio Grande | Colorado Open Lands | Anderson Lazy EA Conservation Easement | \$36,200 | \$0 | \$36,200 | \$115,751 | \$51,000 | \$166,751 | \$202,951 | \$202,951 | Staff recommends approval of up to \$36,200 from the Rio Grande Basin Account | Megan Holcomb |
| 25(x) | Rio Grande | Mineral County Fairgrounds Association | Development of Irrigation Water Right | \$9,190 | \$0 | \$9,190 | \$300 | \$1,200 | \$1,500 | \$10,690 | \$10,690 | Staff recommends approval of up to \$9,190 from the Rio Grande Basin Account | Megan Holcomb |
| 25(y) | Southwest | Mountain Studies Institute | Stream Management Plan, Upper San Juan River Basin | \$22,545 | \$0 | \$22,545 | \$67,635 | \$18,690 | \$86,325 | \$108,870 | \$108,870 | Staff recommends approval of up to \$22,545 from the Southwest Basin Account | Megan Holcomb |
| 25(z) | Southwest | Town of Rico | Water Systems Analysis | \$30,000 | \$30,000 | \$60,000 | \$60,000 | \$0 | \$60,000 | \$90,000 | \$120,000 | Staff recommends approval of up to \$30,000 from the Southwest Basin Account and \$30,000 from the Statewide Account | Megan Holcomb |
| 25(aa) | Southwest | Ducks Unlimited | Sambrito Wetlands | \$50,000 | \$170,000 | \$220,000 | \$154,717 | \$179,717 | \$334,434 | \$384,434 | \$399,717 | Staff recommends approval of up to \$50,000 from the Southwest Basin Account and \$170,000 from the Statewide Account | Megan Holcomb |
| 25(bb) | Southwest | Town of Ignacio | Irrigation Utility Improvements Project | \$48,750 | \$0 | \$48,750 | \$65,250 | \$0 | \$65,250 | \$114,000 | \$130,000 | Staff recommends approval of up to \$48,750 from the Southwest Basin Account | Megan Holcomb |
| 25(cc) | Southwest | Florida Consolidated Ditch Company | Florida Canal Diversion Structure Rehabilitation Project, Phase I | \$45,000 | \$54,000 | \$99,000 | \$114,000 | \$40,000 | \$154,000 | \$199,000 | \$253,000 | Staff recommends approval of up to \$45,000 from the Southwest Basin Account and \$54,000 from the Statewide Account | Megan Holcomb |
| 25(dd) | Southwest | Animas Air Park Property Owners Association | Animas Airpark Water Distribution System | \$43,000 | \$0 | \$43,000 | \$66,000 | \$0 | \$66,000 | \$109,000 | \$109,000 | Staff recommends approval of up to \$43,000 from the Southwest Basin Account | Megan Holcomb |
| Subtotal | | | | \$1,053,729 | \$1,707,418 | \$2,761,147 | | | | | | | |

Loan/Grant Combos

| | | | | | | | | | | | | | |
|--|------------|-------------------------------|---|--------------------------|--------------------|--------------------|--------------------|-------------|-----------|--------------------|-----------|---|--------------------|
| 7(b) | Rio Grande | Trincherra Irrigation Company | Mountain Home Reservoir Outlet Rehabilitation – Phase III | \$60,221 | \$452,779 | \$513,000 | \$474,000 | \$0 | \$474,000 | \$534,221 | \$987,000 | Staff recommends approval of up to \$1,000 from the Arkansas Basin Account and \$6,500 from the Statewide Account | Jonathan Hernandez |
| Total | | | | \$1,113,950 | \$2,160,197 | \$3,274,147 | | | | | | | |
| | | | | Arkansas Basin | \$25,052 | \$242,630 | \$267,682 | \$120,117 | | \$95,065 | | | |
| | | | | Colorado Basin | \$199,500 | \$0 | \$199,500 | \$521,520 | | \$322,020 | | | |
| | | | | Gunnson Basin | \$100,000 | \$120,700 | \$220,700 | \$516,489 | | \$416,489 | | | |
| | | | | Metro | \$65,000 | \$107,500 | \$172,500 | \$617,568 | | \$552,568 | | | |
| | | | | North Platte | \$116,300 | \$0 | \$116,300 | \$1,187,931 | | \$1,071,631 | | \$2,307,258 | \$147,061 |
| | | | | Rio Grande | \$243,803 | \$942,367 | \$1,186,170 | \$319,407 | | \$75,604 | | | |
| | | | | Southwest | \$239,295 | \$254,000 | \$493,295 | \$496,617 | | \$257,322 | | | |
| | | | | South Platte | \$125,000 | \$493,000 | \$618,000 | \$596,024 | | \$471,024 | | | |
| | | | | Yampa/White/Green | \$0 | \$0 | \$0 | \$1,047,180 | | \$1,047,180 | | | |
| Water Supply Reserve Account Total Requests | | | | \$1,113,950 | \$2,160,197 | \$3,274,147 | \$5,422,853 | | | \$4,308,903 | | | |

Water Supply Reserve Fund – Grant and Loan Program
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(a)

Applicant & Grantee: Redlands Water and Power Company

Water Activity Name: Pump Plant Modernization Feasibility Study

Water Activity Purpose: M&I/Agricultural/Hydropower Generation

County: Mesa

Drainage Basin: Gunnison

Water Source: Gunnison River

Amount Requested: \$25,500 Gunnison Basin Account
\$37,500 Statewide Account
\$63,000 Total Request

Matching Funds: Applicant Match (cash & in-kind) = \$12,000

- 32% of the Statewide Account request (meets 10% min)

Basin Account Match = \$25,500

- 40% of the Statewide Account request (meets 10% min)

Total Match (Applicant & Basin Account) = \$37,500

- 100% of the Statewide Account (meets 50% min)

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| Staff Recommendation: |
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| Staff recommends approval of up to \$25,500 from the Gunnison Basin Account; and \$37,500 from the Statewide Account to help fund the project titled: Pump Plant Modernization Feasibility Study. |
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Water Activity Summary: WSRF grant funds, if approved, will assist The Redlands Water and Power Company (RWPC) to complete a feasibility study to modernize their Pump Station No. 1 pumping facility. RWPC intends to complete a comprehensive alternatives analysis and feasibility study in order to initiate a design build project. Construction of the Pump Station began in 1917 and it is still in use today. The maximum output is 65 cfs. The four electric horizontal centrifugal pumps are located in the pump pit allowing for positive suction head. There is one vertical turbine-regulating pump located outside the pump house in the canal prism. The pump house is in need of extensive upgrade and modification and the electrical switchgear and power-lines need replacement to meet National Electrical Code (NEC) standards.

RWPC diverts about 610,000 ac-ft of water each year from the Gunnison River near Grand Junction, Colorado at flowrates between 750 and 950 cfs under 3 separate water rights. The majority of the diverted water is used for hydropower generation that is then used to power the pumps during the irrigation season. Excess power is sold to XCEL Energy. RWPC serves approximately 1,100 shareholders and about 4,500 acres in the Redlands area with mostly open canals.

Discussion: As pointed out in the accompanying application, this project assists the GBRT in meeting Goals 3, 5, 7 and 8 of the Gunnison Basin Implementation Plan.

In addition, this effort helps the state achieve several of the Measurable Objectives of Colorado's Water Plan, such as meeting the Supply-Demand Gap, Conservation, and Agricultural needs.

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

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

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

Funding Summary/Matching Funds:

| Funding Source | <u>Cash</u> | <u>In-kind</u> | <u>Total</u> | <u>Status</u> |
|----------------------------------|--------------------|-----------------------|---------------------|----------------------|
| Redlands Water and Power Company | \$6,000 | \$6,000 | \$12,000 | Secured |
| WSRF Gunnison Basin Account | \$25,500 | n/a | \$25,500 | Secured |
| Sub-total | \$31,500 | \$6,000 | \$37,500 | |
| WSRF Statewide Account | \$37,500 | n/a | \$37,500 | |
| Total Project Costs | \$69,000 | \$6,000 | \$75,000 | |

CWCB Project Manager: Craig Godbout

Water Supply Reserve Fund – Grant and Loan Program
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(b)

Applicant & Grantee: Ouray County

Water Activity Name: Upper Uncompahgre Stream Management Plan

Water Activity Purpose: Multipurpose (M&I/Ag/Env&Rec/Ed&Outreach)

Counties: Ouray & Montrose

Drainage Basin: Gunnison

Water Source: Uncompahgre

Amount Requested: \$25,000 Gunnison Basin Account
\$83,200 Statewide Account
\$108,200 Total Request

Matching Funds: Applicant Match (cash & in-kind) = \$26,750

- 32% of the Statewide Account request (meets 10% min)

Basin Account Match = \$25,000

- 30% of the Statewide Account request (meets 10% min)

Total Match (Applicant & Basin Account) = \$51,750

- 62% of the Statewide Account request (meets 50% min)

Note: The Gunnison Basin Roundtable (GBRT) initially approved a Gunnison Basin Account request of \$25,000 for this effort during their December 2017 meeting while anticipating that the applicant would also be approved for a CWCB Stream Management Plan Grant. The Stream Management Plan Grant failed to be approved; therefore the applicant will return to the GBRT on March 19, 2018 for their recommendation of an additional \$83,200 from the Statewide Account. If a favorable recommendation is achieved from the GBRT, the Roundtable recommendation letter will be hand distributed to the CWCB Board during the March 21-22, 2018 CWCB meeting.

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| Staff Recommendation: |
| Staff recommends approval of up to \$25,000 from the Gunnison Basin Account; and \$83,200 from the Statewide Account to help fund the project titled: Upper Uncompahgre Stream Management Plan. |

Water Activity Summary: WSRF grant funds, if approved, will assist Ouray County develop a Stream Management Plan that sets as its objectives the identification of sources of water, and projects both immediate and future, to fulfill the reasonable expectations of water needs for all users in Ouray County, including M&I, agricultural, for the present and the future within the Upper Uncompahgre Basin. The County's efforts to achieve these goals will include coordination of stakeholders, the formation of a Steering Committee, modeling objectives and scenarios, development and evaluation of various water supply and management strategies, identifying water supply and efficiency projects, and report preparation and administration.

Discussion: As pointed out in the accompanying application, this is a Tier 1 project as identified in the Gunnison Basin Implementation Plan and assists the GBRT in meeting Goals 1, 3, 4, 5, 6 and 7 of the Gunnison Basin Implementation Plan.

In addition, this effort helps the state achieve several of the Measurable Objectives of Colorado's Water Plan, such as meeting the Supply-Demand Gap; Conservation; Watershed Health, Environment and Recreation, and Agricultural needs.

Ouray County has previously been awarded a WSRF Grant for \$50,000 (\$25,000 GBRT Account & \$25,000 Statewide Account) for the *Upper Uncompahgre Basin Water Supply Protection & Enhancement Project* by the CWCB during the September 2015 meeting, and has completed this effort to the satisfaction of CWCB staff.

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

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

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

Funding Summary/Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-kind</u> | <u>Total</u> | <u>Status</u> |
|--|--------------------|-----------------------|---------------------|----------------------|
| Colorado River Water Conservation District | \$10,000 | \$0 | \$10,000 | Secured |
| Ouray County | \$5,000 | \$0 | \$5,000 | Secured |
| Ouray County Water Users Association | \$3,000 | \$0 | \$3,000 | Secured |
| Trout Unlimited | \$2,000 | \$0 | \$2,000 | Secured |
| Uncompahgre Watershed Partnership | \$500 | \$0 | \$500 | Secured |
| Tri-County Water | \$2,500 | \$0 | \$2,500 | Secured |
| City of Ouray | \$2,000 | \$0 | \$2,000 | Secured |
| Town of Ridgway | \$1,500 | \$0 | \$1,500 | Secured |
| Shavano Conservation District | \$250 | \$0 | \$250 | Secured |
| Subtotal | \$26,750 | \$0 | \$26,750 | |
| WSRF Gunnison Basin Account | \$25,000 | n/a | \$25,000 | Secured |
| Sub-total | \$51,750 | \$0 | \$51,750 | |
| WSRF Statewide Account | \$83,200 | n/a | \$83,200 | |
| Total Project Costs | \$134,950 | \$0 | \$134,950 | |

CWCB Project Manager: Craig Godbout

Water Supply Reserve Fund – Grant and Loan Program
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(c)

Applicant & Grantee: Diane Martin

Water Activity Name: Tornay Highline Diversion Improvement

Water Activity Purpose: Multipurpose (Ag/Env&Rec)

County: Gunnison

Drainage Basin: Gunnison

Water Source: Quartz Creek

Amount Requested: \$15,000 Gunnison Basin Account

Matching Funds: Applicant Match (cash & in-kind) = \$25,750
• 172% of the Basin Account request (meets 10% min)

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| Staff Recommendation: |
| Staff recommends approval of up to \$15,000 from the Gunnison Basin Account to help fund the project titled: Tornay Highline Diversion Improvement |

Water Activity Summary: WSRF grant funds, if approved, will assist a collaborate effort between Green Mesa Ranch and Trout Unlimited to reconstruct the Tornay Highline diversion structure. The project is located on Quartz Creek approximately 12 miles east of the city of Gunnison. Green Mesa Ranch is a 330-acre ranch owned by Johnny Leverett. Owners produce grass hay and pasture livestock on the irrigated land. The Tornay Highline ditch is owned by Green Mesa Ranch and delivers water for irrigation of 224 acres of grass hay meadow and pasture. The existing Tornay Highline diversion is difficult and dangerous to operate, is a barrier to trout, and is contributing to channel instability thru the segment of Quartz creek. This project will replace the existing structure with a new structure will improve ditch operations, operator safety, channel stability, and fish passage.

Project Objective

- Improve access and control of pre-compact water rights.
- Improve safety of personnel operating diversion
- Reduce in channel disturbance caused by diversion maintenance.
- Reduce risk of diversion failure during high flow periods.
- Improve trout passage for spawning and migration.
- Improve channel stability and instream habitat.
- Improve wintering trout habitat with pooling below the diversion.

Discussion: As pointed out in the accompanying application, this project assists the Gunnison Basin Roundtable in meeting Goals 1 and 2 of the Gunnison Basin Implementation Plan.

In addition, this effort helps the state achieve several of the Measurable Objectives of Colorado's Water Plan, such as meeting Agricultural needs.

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

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

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

Funding Summary/Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-kind</u> | <u>Total</u> | <u>Status</u> |
|---|--------------------|-----------------------|---------------------|----------------------|
| Trout Unlimited | \$0 | \$3,000 | \$3,000 | Secured |
| Upper Gunnison River Water Conservancy District | \$17,000 | \$0 | \$17,000 | Pending |
| Diane Martin & Johnny Leverett | \$2,750 | \$3,000 | \$5,750 | Secured |
| Subtotal | \$19,750 | \$6,000 | \$25,750 | |
| WSRF Gunnison Basin Account | \$15,000 | n/a | \$15,000 | Secured |
| Total | \$34,750 | \$6,000 | \$40,750 | |

CWCB Project Manager: Craig Godbout

Water Supply Reserve Fund – Grant and Loan Program
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(d)

Applicant & Grantee: Trout Unlimited
Water Activity Name: Tomichi Water Conservation Project
Water Activity Purpose: Multipurpose (Ag/Env&Rec) – Study & Implementation
County: Gunnison
Drainage Basin: Gunnison
Water Source: Tomichi Creek
Amount Requested: \$34,500 Gunnison Basin Account
Matching Funds: Applicant Match (cash & in-kind) = \$25,750
• 74% of the Basin Account request (meets 10% min)

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| Staff Recommendation: |
| Staff recommends approval of up to \$34,500 from the Gunnison Basin Account to help fund the project titled: Tomichi Water Conservation Project. |

Water Activity Summary: WSRF grant funds, if approved, will assist Trout Unlimited and other stakeholders develop a program that will demonstrate how temporary and coordinated split-season agricultural water conservation can provide the flexibly necessary to sustain robust agriculture and healthy streams in the upper Gunnison Basin. The primary focus of this proposal will be to reduce local shortages during drought years. The secondary goal is to provide a conservation program template that will be useful in the future. This effort will be accomplished by the following tasks as indicated in the Statement of Work: Implement Voluntary Conservation Program; Estimate and verify reduced Consumptive Use and impacts; Secure water rights protections; Evaluate opportunities to bank conserved water in the Aspinall Unit.

This three-year water conservation project will involve regional coordination to improve environmental and recreational flows through the Tomichi State Wildlife Area (SWA), as well as to reduce agricultural shortages below the SWA. The program will also provide an example of how temporary, voluntary, and compensated reduction of consumptive use can be used to reduce local watershed shortages during drought years and protect water users from increasing water demands on the Colorado River.

The lower Tomichi Creek region was chosen as the demonstration site because existing relationships and past coordination will provide a project that is ready for implementation.

Discussion: As pointed out in the accompanying application, this project assists the Gunnison Basin Roundtable in meeting Goals 1, 5 and 7 of the Gunnison Basin Implementation Plan.

In addition, this effort helps the state achieve several of the Critical Goals and Actions of Colorado's Water Plan, such as: meeting D. Agricultural (Facilitate Alternative Transfer Methods & Support Agricultural Conservation and Efficiency); F. Watershed Health, Environment. and Recreation (Enhance Environmental and Recreational Economic Values); H. Education, Outreach and

Innovation; and Goal 3 in Section 6.6 – Environmental and Recreational Projects and Methods (“Support the development of multipurpose projects and methods that benefit environmental and recreational water needs as well as water needs for communities or agriculture”).

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

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

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

Funding Summary/Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-kind</u> | <u>Total</u> | <u>Status</u> |
|-------------------------------------|--------------------|-----------------------|---------------------|----------------------|
| Trout Unlimited | \$0 | \$19,400 | \$19,400 | Secured |
| The Nature Conservancy | \$0 | \$5,000 | \$5,000 | Secured |
| System Conservation Pilot Program | \$50,000 | \$0 | \$50,000 | Secured |
| CWCB Water Plan Grant | \$75,000 | \$0 | \$75,000 | Secured |
| Upper Gunnison WCD | \$15,525 | \$0 | \$15,525 | Pending |
| Bonneville Environmental Foundation | \$20,000 | \$0 | \$20,000 | Secured |
| Subtotal | \$160,525 | \$24,400 | \$184,925 | |
| WSRF Gunnison Basin Account | \$34,500 | n/a | \$34,500 | |
| Total Project Costs | \$195,025 | \$24,400 | \$219,425 | |

CWCB Project Manager: Craig Godbout

Water Supply Reserve Fund – Grant and Loan Program
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(e)

Applicant & Grantee: Owl Mountain Partnership
Water Activity Name: Jackson County Water Structure Improvement Project
Water Activity Purpose: Multipurpose (Ag/Env&Rec) – Implementation
County: Jackson
Drainage Basin: North Platte
Water Source: Michigan River & Jack Creek
Amount Requested: \$116,300 North Platte Basin Account
Matching Funds: Applicant Match (cash & in-kind) = \$116,800
• 104% of the Basin Account request (meets 10% min)

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| Staff Recommendation: |
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| Staff recommends approval of up to \$116,300 from the North Platte Basin Account to help fund the project titled: Jackson County Water Structure Improvement Project. |
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Water Activity Summary: WSRF grant funds, if approved, will assist the Owl Mountain Partnership replace three existing but deteriorating headgates, install a fish-friendly diversion, install a new measuring device, and line an existing section of ditch. These improvements will be constructed on the Old SC, Briggs Bonn, Teller and Darcy Ditches to:

- safely, effectively and efficiently control and regulate irrigation water.
- to reduce irrigation water induced erosion and sediment movement.
- to improve irrigation water management.
- to continue to create irrigation induced wetlands and riparian areas for wildlife habitat
- to provide possible recreational opportunities.

Discussion: This effort assists the North Platte Basin Roundtable satisfy Goal #3 – Continue to restore, maintain, and modernize critical water infrastructure to preserve current uses and increase efficiencies; and Goal #4 - Maintain healthy rivers and wetlands through the strategic implementation of projects that meet prioritized nonconsumptive needs as identified in the North Platte Basin Implementation Plan, while also assisting the state several of the Critical Goals and Actions of Colorado's Water Plan, such as: meeting D. Agricultural (Facilitate Alternative Transfer Methods & Support Agricultural Conservation and Efficiency); and F. Watershed Health, Environment. and Recreation (Enhance Environmental and Recreational Economic Values).

Issues/Additional Needs: Staff will work with the applicant to obtain all letters of matching commitment, otherwise no issues or additional needs have been identified.

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

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

Funding Summary/Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-kind</u> | <u>Total</u> | <u>Status</u> |
|---------------------------------|--------------------|-----------------------|---------------------|----------------------|
| NRCS | \$84,690 | \$22,000 | \$106,690 | Secured |
| Private Land Water Users | \$10,110 | \$0 | \$10,110 | Pending |
| Subtotal | \$94,800 | \$22,000 | \$116,800 | |
| WSRF North Platte Basin Account | \$116,300 | n/a | \$116,300 | |
| Total Project Costs | \$211,100 | \$22,000 | \$233,100 | |

CWCB Project Manager: Craig Godbout

Water Supply Reserve Fund – Grant and Loan Program
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(f)

Applicant & Grantee: St. Vrain & Left Hand Water Conservancy District
Water Activity Name: St. Vrain & Left Hand Water Stream Management Plan
Water Activity Purpose: Multipurpose (Rec/Needs Assessment/Ed&Outreach) – Study
County: Boulder & Weld
Drainage Basin: South Platte
Water Source: St. Vrain
Amount Requested: \$50,000 South Platte Basin Account
Matching Funds: Applicant Match (cash & in-kind) = \$249,500
• 500% of the Basin Account request (meets 10% min)

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| Staff Recommendation: |
| Staff recommends approval of up to \$50,000 from the South Platte Basin Account to help fund the project titled: St. Vrain & Left Hand Water Stream Management Plan. |

Water Activity Summary: WSRF grant funds, if approved, will assist the district develop a Stream Management Plan (SMP). The overall goal of the SMP is to build upon the extensive studies that have already taken place in the basin to collaboratively identify projects and management strategies that will transition stakeholders from flood recovery to stream health projects that improve environmental conditions in the river while also meeting water users' current and future needs and are aligned with private property rights and the prior appropriation system. The St. Vrain Creek watershed is critical to maintaining the health, biodiversity, character, and economy of communities within the region, including Lyons and Longmont. The creek is home to a diverse population of native fish, receives Colorado River transmountain water, hosts one of the country's largest outdoor games, has its headwaters in Rocky Mountain National Park and the Indian Peaks Wilderness, and its confluence in a county that is the largest agricultural economic producing county in Colorado. With such a wide range of uses and an intense focus of study, the St. Vrain poses an excellent opportunity to balance river health with water users' needs through completion of a stream management plan.

Discussion: This effort assists the South Platte Basin Roundtable satisfy their Environmental and Recreational Goal to "Fully recognize the importance of, and support the development of environmental and recreational projects and multipurpose projects that support water availability for ecologically and economically important habitats and focus areas.", as called out in the South Platte Basin Implementation Plan while also assisting the state in meeting several of the Critical Goals and Actions of Colorado's Water Plan, such as: "Develop stream management plans for priority streams (identified in a BIP or otherwise) as having environmental or recreational value".

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

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

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

Funding Summary/Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-kind</u> | <u>Total</u> | <u>Status</u> |
|--|--------------------|-----------------------|---------------------|----------------------|
| Colorado Watershed Restoration Program Grant | \$150,000 | \$0 | \$150,000 | Secured |
| St. Vrain & Left Hand Water Conservancy District | \$50,000 | \$0 | \$85,500 | Secured |
| County of Boulder | \$17,500 | \$0 | \$17,500 | Pending |
| City of Longmont | \$17,500 | \$0 | \$17,500 | Pending |
| American Whitewater | \$0 | \$7,000 | \$7,000 | Secured |
| Trout Unlimited | \$5,000 | \$0 | \$5,000 | Secured |
| JBL Engineering | \$2,500 | \$0 | \$2,500 | Secured |
| Subtotal | \$242,500 | \$7,000 | \$249,500 | |
| WSRF South Platte Basin Account | \$50,000 | n/a | \$50,000 | |
| Total Project Costs | \$292,500 | \$7,000 | \$299,500 | |

CWCB Project Manager: Chris Sturm

Water Supply Reserve Fund – Grant and Loan Program
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(g)

Applicant & Grantee: Lost Creek Groundwater Management District

Water Activity Name: Lost Creek Designated Basin Instrumentation Project

Water Activity Purpose: Multipurpose (Ag & M&I) – Study/Implementation

County: Adams & Weld

Drainage Basin: South Platte

Water Source: Groundwater

Amount Requested: \$25,000 South Platte Basin Account
\$43,000 Statewide Account
\$68,000 Total Request

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

- 58% of the Statewide Account request (meets 10% min)

Basin Account Match = \$25,000

- 58% of Statewide Account Request (meets 10% min)

Total Match (Basin Account & Applicant) = \$50,000

- 74% of the Statewide Account request (meets 50% min)

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| Staff Recommendation: |
| Staff recommends approval of up to \$25,000 from the South Platte Basin Account; and \$63,000 from the Statewide Account to help fund the project titled: Lost Creek Designated Basin Implementation Project. |

Water Activity Summary: WSRF grant funds, if approved, will assist the Lost Creek Groundwater Management District (LCGWMD) install 30 depth-sensing transducers in the Lost Creek designated basin. This array will measure water depths throughout the upper Lost Creek Designated Basin and report results directly to the State of Colorado Division of Water Resources HydroBase database. Funding will be used to procure, install, and connect the array to HydroBase. Initial installations will be conducted by DynoTek and will serve to train LCGWMD personnel to complete the project.

Project objectives:

- to provide baseline empirical data on actual water levels in the Lost Creek alluvial system. The data will support attainment of the following secondary objectives:
- Provide accurate and substantive data to support DWR, CWCB, and LCGWMD decisions on appropriations, well applications, and validate groundwater modeling.
- Characterize the Lost Creek system prior to establishment of ASR projects to be able to discern effects of infiltration methods, storage capacity, resident times, and export of resources from the system

Discussion: This effort assists the South Platte Basin Roundtable address their water supply challenges by promoting the exploration of Aquifer Storage and Recovery possibilities as highlighted in the South Platte Basin Implementation Plan (Section S.3.3. Groundwater and Aquifer Storage and

Recovery, page S-6) while also assisting the state in meeting several of the Critical Goals and Actions of Colorado's Water Plan, such as: "Promoting Additional Storage".

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

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

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

Funding Summary/Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-kind</u> | <u>Total</u> | <u>Status</u> |
|---|--------------------|-----------------------|---------------------|----------------------|
| Lost Creek Ground Water Management District | \$25,000 | \$0 | \$25,000 | Secured |
| WSRF South Platte Basin Account | \$25,000 | n/a | \$25,000 | |
| WSRF Statewide Account | \$43,000 | n/a | \$43,000 | |
| Total Project Costs | \$93,000 | \$0 | \$93,000 | |

CWCB Project Manager: Craig Godbout

Water Supply Reserve Fund – Grant and Loan Program
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(h)

Applicant & Grantee: Ducks Unlimited, Inc.

Water Activity Name: BOR - Narrows Tracts: Shallow Water Wetland Enhancements and Recharge Development

Water Activity Purpose: Multipurpose (Ag/Env&Rec) – Implementation

County: Morgan

Drainage Basin: South Platte

Water Source: South Platte

Amount Requested: \$50,000 South Platte Basin Account
\$450,000 Statewide Account
\$500,000 Total Request

Matching Funds: Applicant Match (cash & in-kind) = \$657,932
• 146% of the Statewide Account request (meets 10% min)
Basin Account Match = \$50,000
• 11% of Statewide Account Request (meets 10% min)
Total Match (Basin Account & Applicant) = \$707,932
• 157% of the Statewide Account request (meets 50% min)

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| Staff Recommendation: |
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| Staff recommends approval of up to \$50,000 from the South Platte Basin Account; and \$450,000 from the Statewide Account to help fund the project titled: BOR - Narrows Tracts: Shallow Water Wetland Enhancements and Recharge Development. |
|---|

Water Activity Summary: WSRF grant funds, if approved, will assist Ducks Unlimited in partnership with the Bureau of Reclamation (BOR) and local water providers, to enhance existing shallow water wetlands and develop a complex of recharge ponds on three BOR properties, commonly referred to as the Narrows Tracts. In 2015, the CWCB funded the Phase-I feasibility study of these properties which concluded in September 2017 and laid the groundwork for project implementation (Phase-II). Through this WSRF grant proposal and significant DU philanthropic support, we are proposing to develop three multi-purpose projects on the Narrows properties to improve public recreational opportunities, develop new agricultural water supplies, and provide additional wildlife habitat along the South Platte River.

Specifically, WSRF funding will be utilized to:

1. Complete the final engineering drawings and solicit competitive construction bids
2. Construct the three properties as outlined in the Exhibit-A (SOW). Activities include the installation of 15,000 linear feet of 24" pipeline, 15 in-line water control structures, and approximately 20,000 cubic yards of earthwork.

3. Manage all construction activities.
4. Provide interim progress reports and a final report to the CWCB upon project completion.

Discussion: This project furthers multiple goals and objectives of the South Platte Basin Implementation Plan (SPBIP) in accordance with Section 4.5.2.5: Cooperative and Multi-Purpose Projects, an example of which is identified as “Environmental or recreational pools or cooperative agreements with respect to storage reservoirs, providing streamflows that enhance or protect recreational or environmental instream flow needs”; and Section 1.9.1: Agriculture, with a Measurable Outcome #3 of “Support strategies to address agricultural water shortages through IPPs, new multi-purpose projects and innovative measures to maximize use of available water supplies”.

With respect to Colorado’s Water Plan, this project supports the Critical Goals and Actions as described in Section 10.3A: Supply and Demand Gap, “Protect and Develop Compact Entitlements and Manage Risks”, Section 10.3D: Agriculture, “Maintain Agricultural Viability”, and Section F : Watershed Health, Environment, and Recreation to Enhance Environmental and Recreational Economic Values.

Ducks Unlimited received a WSRF Grant in Sept 2015 for \$137,187 (\$15,554 South Platte Basin Account, \$121,633 Statewide Account) for the project titled *Water Development of the Bureau of Reclamation properties, known as the Narrows Tract, along the South Platte River* which was successfully completed to staff’s satisfaction.

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

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

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

Funding Summary/Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-kind</u> | <u>Total</u> | <u>Status</u> |
|---------------------------------|--------------------|----------------|--------------------|---------------|
| Ducks Unlimited | \$657,932 | \$0 | \$657,932 | Secured |
| WSRF South Platte Basin Account | \$50,000 | n/a | \$50,000 | |
| WSRF Statewide Account | \$450,000 | n/a | \$450,000 | |
| Total Project Costs | \$1,157,932 | \$0 | \$1,157,932 | |

CWCB Project Manager: Craig Godbout

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(i)

Applicant & Program Sponsor: Lakeside Estates Preserve Homeowners Assoc., Inc.

Water Activity Name: Ice Lake Preservation & Augmentation Project

Water Activity Purpose: Implementation; Non-Consumptive Environmental & Recreation

County: Chaffee County

Drainage Basin: Arkansas

Water Source: Franklin Reservoir/Ice Lake

Amount Requested/Source of Funds: \$2,891 Arkansas River Basin Account
\$26,019 Statewide Account
\$28,910

Matching Funds: Basin Account Match (\$6,681) = 11% of Statewide Account request (Meets 10% min);
Applicant's In-kind Match (\$14,286) = 55% of Statewide Account request (Meets 25% min.);
Total Match (Basin & Applicant Match of \$50,000 = 66% of Statewide Account request (meets 50% min). (refer to *Funding Summary/Matching Funds* section)

| |
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| Staff Recommendation: |
| Staff recommends approval of up to \$2,891 from the Arkansas River Basin Account and \$26,019 from the Statewide account to help fund the project titled: Ice Lake Preservation & Augmentation Project |

Water Activity Summary:

If funded, the objectives of this project are to:

- Preserve critical habitat for migrating birds and mammals
- Preserve historic cultural values associated with Ice Lake
- Install equipment needed to properly administer water rights
- Increase storage for fully consumable water to be utilized in drought years
- Promote integrated water management through a partnership with local Water Conservancy District

Lakeside Estates Preserve Homeowners Association owns Franklin Reservoir (also known as Ice Lake) which its storage was decreed in 1969 with an appropriated date of 1882, but the rights are administered as a 1942 water right and are rarely in priority. Historically, Ice Lake was used for ice manufacturing and was an important part of the Upper Arkansas Valley. After ice manufacturing

was abandoned, homes were built around the lake and it became an attractive recreational and water fowl habitat area.

Due to heightened administration by the State Engineer's Office, the Lakeside Estates Preserve HOA was required to replace the evaporative losses from the Lake. The Association has acquired a water right located on Cottonwood Creek that may be re-purposed to serve as a partial augmentation source. The water right acquired was being threatened by urban encroachment and 88.33 acre feet of water can be preserved for continued use on Cottonwood Creek but will need to be changed to augmentation use. The reservoir will also be used for storage of fully consumable water that would be available during drought years.

The applicant believes Ice Lake provides the best shallow open water habitat and corresponding emergent wetlands in Chaffee County. The Upper Arkansas Valley has limited wetland habitat and suitable habitat that is visible from migrants flying over the Valley. Ice Lake and its wetlands is a vital habitat for birds migrating and is also critical habitat for many mammals in the area.

If approved, WSRF funds would be utilized to assist the HOA with preserving 40 acres of habitat through developing the augmentation requirements needed to preserve Ice Lakes. Funds would be utilized for a survey, data recording equipment, and a historic use analysis.

Discussion: This project is consistent with the measurable objects set forth in the Colorado Water Plan, Objective F - Watershed Health, Environment and Recreational Economic Values: *Protect and enhance river-based environments and recreational opportunities that support local and statewide economies and are important for the enjoyment of current and future generations of Coloradans.*

This project also supports "Protecting Healthy Environments" – *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 resiliency.* The applicant believes Ice Lake is the best shallow, open water habitat with emergent wetlands in Chaffee County. Enhancement and protection would support over 80 bird species and other native mammals.

Issues/Additional Needs: None.

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

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

Funding Summary/Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-kind</u> | <u>Total</u> |
|---|--------------------|-----------------------|---------------------|
| Lakesides Preserves HOA | \$7,143 | \$0 | \$7,143 |
| Upper Arkansas Water Conservancy District | \$7,143 | \$0 | \$7,143 |
| WSRF Arkansas Basin_Account | \$2,891 | n/a | \$2,891 |
| WSRF Statewide Account | \$26,019 | n/a | \$26,019 |
| Total Project Costs | \$43,196 | \$0 | \$43,196 |

CWCB Project Manager: Ben Wade

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(j)

Applicant & Program Sponsor: Parkville Water District

Water Activity Name: Mountain Lake Emergency Spillway Rebuild

Water Activity Purpose: Implementation

County: Lake County

Drainage Basin: Arkansas

Water Source: Mountain Lake

Amount Requested/Source of Funds: \$6,681 Arkansas River Basin Account
\$66,814 Statewide Account
\$73,495

Matching Funds: Basin Account Match (\$6,681) = 200% of Statewide Account request (Meets 10% min);
Applicant's In-kind Match (\$38,180) = 57.1% of Statewide Account request (Meets 25% min.);
Total Match (Basin & Applicant Match of \$50,000 = 67% of Statewide Account request (meets 50% min). (refer to *Funding Summary/Matching Funds* section)

| |
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| Staff Recommendation: |
| Staff recommends approval of up to \$6,681 from the Arkansas River Basin Account and \$66,814 from the Statewide account to help fund the project titled: Mountain Lake Emergency Spillway Rebuild |

Water Activity Summary:

If funded, the objectives of this project are to:

- Rebuild and repair the existing spillway;
- Successfully construct the control wall, riprap end wall and discharge channel;
- Develop erosion control and environmental rehabilitation/ revegetation;
- Eliminate classification the dam has as a “Significant Hazard” and
- Provide protection for Lake County residents; and secure storage for domestic and irrigation water resources in Lake County

The Mountain Lake dam was originally constructed in 1879 and subsequently rebuilt and enlarged in 1904. None of the original concrete structure exists. The concrete spillway structure in place now has deteriorated and lacks the ability to prevent erosion to the dam that could result from a sudden spring runoff or a large mountain storm event.

This dam is classified as a “Significant Hazard Dam” by the State Engineers Office due to population in the flood path of this reservoir. The current alignment of the spillway ditch is also a hazard as it is parallel to and adjacent to the toe of the dam (10’ from toe). The current spillway ditch is also unlined and has no riprap erosion protection. Mountain Lake Reservoir holds 122-acre feet of water, which is approximately 40% of the raw water storage for the City of Leadville and areas of Lake County. This lake along with the nearby Evans Gulch #2 Reservoir, acts as a reserve supply of water for the Parkville Water District.

Discussion: This project is consistent with the measurable objects set forth in the Colorado Water Plan (Storage and Municipal Supply Gap) by securing and rehabilitating storage facilities and protecting water supplies. A loss of this storage would result in the State Engineers Office requiring level restrictions and which would increase the municipal supply gap.

This project also meets the identified Arkansas Basin Implementation Plan’s objectives for rehabilitating storage vessels and securing the municipal gap by rehabilitating the spillway and securing storage for municipal supplies.

Issues/Additional Needs: None.

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

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

Funding Summary/Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-kind</u> | <u>Total</u> |
|------------------------------|--------------------|-----------------------|---------------------|
| Parkville Water District | \$31,499 | \$0 | \$31,499 |
| WSRF Statewide Account | \$66,814 | n/a | \$66,814 |
| WSRF Arkansas Basin Account | \$6,681 | n/a | \$6,681 |
| Total Project Costs | \$104,994 | \$0 | \$104,994 |

CWCB Project Manager: Ben Wade

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
March 22, 2018
Agenda Item 25(k)

Applicant: Huerfano County Water Conservancy District

Water Activity Name: Cucharas Collaborative Storage Study - Geotechnical Investigation

Water Activity Purpose: Study

County: Huerfano County

Drainage Basin: Arkansas

Water Source: Cucharas River Basin

Amount Requested/Source of Funds: \$8,480 Arkansas River Basin Account
\$84,797 Statewide Account
\$93,277 Total Grant Request

Matching Funds: Basin Account Match (\$8,480) = 10% of Statewide Account request (meets 10% min);
Applicant's Cash Match (\$48,760) = 57.5% of Statewide Account request (meets 10% min);
Total Match (Basin & Applicant Match of \$57,240 = 67.5% of Statewide Account request (meets 50% min).
(refer to *Funding Summary/Matching Funds* section)

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| Staff Recommendation: |
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| Staff recommends approval of up to \$8,480 from the Arkansas River Basin Account and \$84,797 from the Statewide account to help fund the study titled: Cucharas Collaborative Storage Study - Geotechnical Investigation |
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Water Activity Summary: If funded, the goal of this project is to evaluate the suitability of five potential dam sites for construction of a reservoir that will provide collaborative storage in the Cucharas River Basin. The five sites were selected based on results of the previous phase of the storage study (WSRF funded Cucharas Basin Collaborative Storage Study) completed in June 2017.

The geotechnical investigation will focus on the subsurface geology at each proposed dam site and evaluate site suitability based on factors such as foundation stability and potential seepage concerns. Lab analyses of subsurface soil samples will be collected from test pits excavated at each site. Soil samples will be analyzed to determine geotechnical properties important in dam foundation design, and drilling will extend to bedrock in at least one location at each site to evaluate bedrock permeability and stability. A geotechnical report with recommendations on site suitability for reservoir engineering design and construction will be developed based on these results.

Discussion: This project is consistent with goals set forth in the Colorado Water Plan Objective E, Storage: Promote Additional Storage and Infrastructure - *Assess and promote opportunities for multipurpose and multi-partner storage projects that address strategic needs.* This project also supports: *Prioritize grants and loans to support the implementation of BIP-identified multipurpose projects and methods, taking into consideration locally identified geographic and seasonal gaps.*

The project also supports Objective A of the Water Plan, Supply-Demand Gap: *“Use a grassroots approach to formulate projects and methods that avoid some of the undesirable outcomes of the supply-demand gaps”.* This project is based on the recommended priority storage sites identified through a multi-partner grassroots process.

Issues/Additional Needs: None.

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

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

Funding Summary/Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-kind</u> | <u>Total</u> |
|--|--------------------|-----------------------|---------------------|
| Huerfano County Water Conservancy District | \$10,000 | \$0 | \$10,000 |
| Cucharas Water & Sanitation District | \$5,000 | \$0 | \$5,000 |
| City of Walsenburg | \$5,000 | \$0 | \$5,000 |
| La Veta Fire Protection District | \$1,500 | \$0 | \$1,500 |
| Town of La Veta | \$5,000 | \$0 | \$5,000 |
| Marshall Moore, Cuchara Investments | \$3,870 | \$0 | \$3,870 |
| Huerfano Co. Board of County Commissioners | \$5,000 | \$0 | \$5,000 |
| Maria Lake Grazing Association | \$5,000 | \$0 | \$5,000 |
| WSRF Arkansas Basin Account | \$8,480 | n/a | \$8,480 |
| WSRF Statewide Account | \$84,797 | n/a | \$84,797 |
| Total Project Costs | \$133,557 | \$0 | \$133,577 |

CWCB Project Manager: Ben Wade

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(l)

Applicant: Town of Poncha Springs

Water Activity Name: Poncha Springs Water Infrastructure Improvement Project- Well Development

Water Activity Purpose: Implementation – Municipal/Industrial

County: Chafee County

Drainage Basin: Arkansas

Water Source: Cucharas River Basin

Amount Requested/Source of Funds: \$6,000 Arkansas River Basin Account
\$58,500 Statewide Account
\$64,500 Total Grant Request

Matching Funds: Basin Account Match (\$6,000) = 10.25% of Statewide Account request (meets 10% min);
Applicant's Cash Match (\$55,500) = 94.8% of Statewide Account request (meets 10% min);
Total Match (Basin & Applicant Match of \$61,500 = 105.1% of Statewide Account request (meets 50% min). (refer to *Funding Summary/Matching Funds* section)

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| Staff Recommendation: |
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| Staff recommends approval of up to \$6,000 from the Arkansas River Basin Account and \$58,500 from the Statewide account to help fund the study titled: Poncha Springs Water Infrastructure Improvement Project - Well Development |
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Water Activity Summary: If funded, the objectives of this proposed project are:

- Improve and enlarge Poncha Spring's water infrastructure to meet current demands for domestic use and fire suppression, increase storage, delivery systems, and supplies
- Develop integrated water management partnerships to better utilize and manage water supplies in the Upper Arkansas Valley.

The population of the Town of Poncha Springs has tripled since the water system first went online in 1983. The ability to supply sufficient demand and sustain proper fire suppression levels has become increasingly difficult. Over the last several years, the wells have barely been able to keep storage above the minimum fire flow levels required. The current system has no form of redundancies. The applicant estimates if one of the wells were to go down, the system would not be able to meet demand. WSRF funds would assist with the implementation of the two high-capacity wells that

would provide approximately 30 additional acre-feet to the Town's current water supply, which more than doubles the current distribution capacity.

In addition to the current proposal, Poncha Springs is funding a new truck line distribution system, contact chambers, treatment facilities, and an additional water tank. The full project will cost approximately 2.3 million dollars of which 65% will be provided by the Town. Poncha Springs has been working to secure additional funding needed. The Town believes the proposed project would greatly improve its ability to develop and provide a reliable source of water for its constituents and for fire protection.

Discussion: This project is consistent with goals set forth in the Colorado Water Plan Objective A, Supply-Demand Gap: *"Use a grassroots approach to formulate projects and methods that avoid some of the undesirable outcomes of the supply-demand gaps"*. This project also meets objectives in the Arkansas Basin Implementation Plan.

Issues/Additional Needs: None.

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

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

Funding Summary/Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-kind</u> | <u>Total</u> |
|--|--------------------|-----------------------|---------------------|
| Town of Poncha Springs (CDPHE Loan) | \$50,500 | \$0 | \$50,500 |
| Upper Arkansas Water Conservancy Dist. | \$0 | \$5,000 | \$5,000 |
| WSRF Arkansas Basin Account | \$6,000 | n/a | \$6,000 |
| WSRF Statewide Account | \$58,500 | n/a | \$58,500 |
| Total Project Costs | \$115,000 | \$5,000 | \$120,000 |

CWCB Project Manager: Ben Wade

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(m)

Applicant: Town of Walsh

Water Activity Name: Municipal Water Well Feasibility and Evaluation

Water Activity Purpose: Study – Municipal/Industrial

County: Baca County

Drainage Basin: Arkansas

Water Source: Ogallala Aquifer

Amount Requested/Source of Funds: \$1,000 Arkansas River Basin Account
\$6,500 Statewide Account
\$7,500 Total Grant Request

Matching Funds: Basin Account Match (\$1,000) = 15.3% of Statewide Account request (meets 10% min);
Applicant's Cash Match (\$2,500) = 38.4% of Statewide Account request (meets 10% min);
Total Match (Basin & Applicant Match of \$7,500 = 115.3% of Statewide Account request (meets 50% min).
(refer to *Funding Summary/Matching Funds* section)

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| Staff Recommendation: |
| Staff recommends approval of up to \$1,000 from the Arkansas River Basin Account and \$6,500 from the Statewide Account to help fund the study titled: Municipal Water Well Feasibility and Evaluation |

Water Activity Summary: If funded, the objectives of this proposed project are:

- To evaluate the viability of the single municipal water supply well and to evaluate the potential of other wells in the vicinity as alternative or supplemental sources.
- Refurbish and test pump the "School Well" within the Town's city limits as a municipal supply well.
- Begin data collection to understand the impact of groundwater depletions to the Ogallala aquifer in Baca County, Colorado and the Southern High Plains Groundwater Management District.

Over the past year, the Town of Walsh has been relying on a single well for their municipal water supply. The water level in the well has dropped precipitously, increasing the challenge of providing safe, reliable water supplies to the Town and has created service challenges for the utility. This grant, if approved, will allow the Town to engage a third-party vendor to evaluate the condition of the current well, and evaluate nearby irrigation wells that could potentially be converted for municipal use.

The Town of Walsh solicited two engineering proposals for video evaluation of wells and possible refurbishment of the active well. Tests will be performed at the wells to determine aquifer capacity & drawdown. Data gathered from the well inspections & tests will be sent to the US Geological Survey to establish the base line for an Ogallala Aquifer study.

Discussion: This project is consistent with goals set forth in the Colorado Water Plan Objective A, Supply-Demand Gap: *“Use a grassroots approach to formulate projects and methods that avoid some of the undesirable outcomes of the supply-demand gaps”*. This project also meets objectives in the Arkansas Basin Implementation Plan.

Issues/Additional Needs: None.

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

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

Funding Summary/Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-kind</u> | <u>Total</u> |
|--------------------------------|--------------------|-----------------------|---------------------|
| Town of Walsh Water Enterprise | \$2,500 | \$0 | \$2,500 |
| WSRF Arkansas Basin Account | \$1,000 | n/a | \$1,000 |
| WSRF Statewide Account | \$7,500 | n/a | \$7,500 |
| Total Project Costs | \$11,000 | \$0 | \$11,000 |

CWCB Project Manager: Ben Wade

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(n)**

Applicant & Grantee: Eagle River Watershed Council

Water Activity Name: Eagle River Integrated Water Management Plan

Water Activity Purpose: Multi-use Study

County: Eagle

Drainage Basin: Colorado

Water Source: Eagle River mainstem from headwaters to confluence with the Colorado River

Amount Requested: \$75,000 Colorado Basin Account

Matching Funds: Applicant Match (cash & in-kind) = \$314,945

- 420% of the Basin Account request (meets 25% min)
- 81% of the total project cost of \$389,945

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| Staff Recommendation: |
| Staff recommends approval of up to \$75,000 from the Colorado Basin Account to help fund the project titled: Eagle River Integrated Water Management Plan. |

Water Activity Summary: WSRF grant funds, if approved, will assist Eagle River Watershed Council (ERWC) in the development of the Eagle River Integrated Water Management Plan (ER-IWMP). ERWC has a mission to advocate for the health and conservation of the Upper Colorado and Eagle River basins through research, education and projects. The Integrated Water Management Plan will develop proactive water management recommendations that anticipate changes to local hydrology due to 1) population growth and increasing municipal demand for water in Eagle County, 2) climate change, and 3) projects related to the Eagle River MOU (ERMOU), an intergovernmental agreement for developing municipal water supplies in the upper Eagle River watershed.

The ER-IWMP will be developed through a stakeholder process with local conservation organizations, state and federal agencies, recreational users, ERMOU partners, commercial fishing/rafting guides, local municipalities, agriculture, and other local stakeholders to develop strategies that can respond to these changes in a way that meets municipal demands, while also maintaining and improving ecological attributes in the Eagle River watershed.

The ER-IWMP will integrate both consumptive and non-consumptive water uses to ensure that all existing and future uses are considered. The ER-IWMP will safeguard the interests of the community and extended stakeholders, which include the environmental and recreational use needs. ERWC will provide the opportunity for all interested parties to participate and will educate the community so that the results of this plan are accepted as a fair and reasonable approach to managing our precious water resources.

Discussion: As described in the Colorado basin roundtable (BRT) chair's recommendation letter, this project was supported and recommended for approval by the roundtable on January 22, 2017. The project scored 12.25 of a possible 14.25 points on the Colorado BRT scoring matrix which measures how grants address roundtable objectives. This project assists in satisfying Colorado's Water Plan Critical Goals and Actions as identified in Chapter 10.3, F. Watershed Health, including the development of watershed coalitions and watershed master plans that address the needs of a diverse set of local stakeholders. The Colorado BRT refers to streamflow/watershed planning as Integrated Water Management Planning as a way to show that this type of work involves all stakeholder groups from ag, to municipal, to environmental, to recreation.

Eagle River Watershed Council has been doing such work in the Eagle River watershed since 2004, but will take the next step with the ER-IWMP. The plan demonstrates a commitment to protecting stream health, agriculture, and non-consumptive uses, while planning for change, and engaging the community with a focus on cooperation and collaboration between stakeholders with disparate views.

It is important to note that the Eagle River MOU partners are currently evaluating project alternatives to develop water storage and conveyance projects in the Eagle River basin for West Slope and East Slope interests. It is anticipated there will be strong proponents and opponents to each alternative, however by providing a forum for balanced conversation based upon mutually developed understandings of environmental and recreational use needs and by coming to consensus on what those needs are, partners can create a plan that is in the best interest of all stakeholders.

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

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

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

Funding Summary / Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-Kind</u> | <u>Total</u> |
|---------------------------------------|--------------------|-----------------------|---------------------|
| Homestake Water Project Partners cash | \$20,000 | \$0 | \$20,000 |
| Eagle Park Reservoir Company | \$15,000 | \$15,000 | \$30,000 |
| Vail Resorts (pending) | \$15,000 | \$0 | \$15,000 |
| Eagle River Watershed Council in-kind | \$0 | \$12,000 | \$12,000 |
| Climax Mine | \$11,000 | \$0 | \$11,000 |
| Colorado River District | \$10,000 | \$0 | \$10,000 |
| Eagle County (pending) | \$10,000 | \$0 | \$10,000 |
| Town of Vail | \$10,000 | \$0 | \$10,000 |
| Town of Avon | \$10,000 | \$0 | \$10,000 |
| Town of Gypsum | \$5,000 | \$0 | \$5,000 |
| Town of Minturn | \$500 | \$0 | \$500 |
| CWCB Watershed Restoration Grant | \$181,445 | n/a | \$181,445 |
| Sub-total | \$287,945 | \$27,000 | \$314,945 |
| WSRF Colorado Basin Account | \$75,000 | n/a | \$75,000 |
| Totals | \$256,445 | \$27,000 | \$389,945 |

CWCB Project Manager: Megan Holcomb

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(o)**

Applicant & Grantee: Middle Colorado Watershed Council

Water Activity Name: Middle Colorado Watershed Council Integrated Water Management Plan

Water Activity Purpose: Multi-use Study

County: 88% Garfield County, 11% Mesa County, remainder Rio Blanco and Eagle Counties

Drainage Basin: Colorado

Water Source: Colorado River

Amount Requested: \$103,800 Colorado Basin Account

Matching Funds: Applicant Match (cash & in-kind) = \$311,400

- 300% of the Basin Account request (meets 25% min)
- 75% of the total project cost of \$415,200

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| Staff Recommendation: |
| Staff recommends approval of up to \$103,800 from the Colorado Basin Account to help fund the project titled: Middle Colorado Watershed Council Integrated Water Management Plan. |

Water Activity Summary: WSRF grant funds, if approved, will assist the Middle Colorado Watershed Council (MCWC) to improve security for all water uses in the planning area by understanding and protecting existing uses, meeting shortages, and maintaining healthy riverine ecosystems in the face of increased future demand and climate uncertainty. The planning and implementation effort will be conducted in a series of phases as stakeholder interest and funding allows. The first phase initiates a process of identifying water needs for environmental and recreational uses, determining if gaps exist and, if so, finding solutions for filling the gaps in conjunction with the needs of agricultural, domestic and industrial water users.

The geographic focus in phase one is on the “middle” section of the Colorado River, an area that includes 75 miles of the mainstem. WSRF funds will be used to conduct technical assessments, develop a hydrology model, and support a robust stakeholder engagement process that will help inform the investigation of, selection, and prioritization of projects, processes and/or management actions that further the long-term project objective. Outcomes from phase one will chart the course for a subsequent phase of planning work in a subset of tributaries to the middle Colorado, and will likely include recommendations for implementation projects on the mainstem.

Discussion: As described in the Colorado basin roundtable (BRT) chair’s recommendation letter, this project was supported and recommended for approval by the roundtable on January 22, 2017. The project scored 12.75 of a possible 14.25 points on the Colorado BRT scoring matrix which measures how grants address roundtable objectives. This project assists in satisfying Colorado’s Water Plan Critical Goals and Actions as identified in Chapter 10.3, F. Watershed Health, including the

development of watershed coalitions and watershed master plans that address the needs of a diverse set of local stakeholders. The Colorado BRT refers to streamflow/watershed planning as Integrated Water Management Planning as a way to show that this type of work involves all stakeholder groups from ag, to municipal, to environmental, to recreation.

The Middle Colorado IWMP will serve to advance the state's goal of 80% of locally prioritized rivers to be covered by Stream Management Plans by 2030s, by conducting planning on 75 miles of the mainstem Colorado River, a critical and highly prioritized section of river within the Colorado River Basin. The purpose of the plan is to identify water needs for environmental and recreational uses, determine if gaps exist and, if so, find solutions for filling the gaps in conjunction with the needs of agricultural, domestic and industrial water users.

Issues/Additional Needs: No additional needs have been identified. It is of note that this grant prompted a great deal of interest in the agricultural community. As a result, three local conservation districts (Mount Sopris, Bookcliffe and Southside) have resolved to submit their own grant proposal to deal more deeply into agricultural water use issues in the Middle River. The Colorado BRT supports this parallel approach.

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

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

Funding Summary / Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-Kind</u> | <u>Total</u> |
|--|--------------------|-----------------------|---------------------|
| Garfield County | \$25,000 | \$0 | \$25,000 |
| City of Rifle (pending 2018 budget) | \$1,000 | \$0 | \$1,000 |
| City of Glenwood Springs (pending 2018 budget) | \$2,000 | \$0 | \$2,000 |
| Colorado River District | \$0 | \$12,000 | \$12,000 |
| Technical Advisors | \$0 | \$30,000 | \$30,000 |
| Tamarisk Coalition | \$0 | \$4,200 | \$4,200 |
| Community Stakeholders | \$0 | \$20,000 | \$20,000 |
| Middle Colorado Watershed Council | \$0 | \$9,600 | \$9,600 |
| CWCB Watershed Restoration Grant | \$207,600 | n/a | \$207,600 |
| Sub-total | \$235,600 | \$75,800 | \$311,400 |
| WSRF Colorado Basin Account | \$103,800 | n/a | \$103,800 |
| Totals | \$339,400 | \$75,800 | \$415,200 |

CWCB Project Manager: Chris Sturm

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(p)**

Applicant & Grantee: Town of Carbondale
Water Activity Name: Crystal River Restoration and Weaver Ditch Efficiency Project
Water Activity Purpose: Environmental, Municipal and Industrial Implementation
County: Garfield
Drainage Basin: Colorado
Water Source: Crystal River
Amount Requested: \$20,700 Colorado Basin Account
Matching Funds: Applicant Match (cash & in-kind) = \$179,300

- 866% of the Basin Account request (meets 25% min)
- 89% of the total project cost of \$200,000

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| Staff Recommendation: |
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| Staff recommends approval of up to \$20,700 from the Colorado Basin Account to help fund the project titled: Crystal River Restoration and Weaver Ditch Efficiency Project. |
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Water Activity Summary: WSRF grant funds, if approved, will assist the Town of Carbondale, with partners Aspen Valley Land Trust, Roaring Fork Conservancy, American Rivers, and Public Counsel of the Rockies in the restoration and enhancement of a one-half mile, 18-acre reach of the Crystal River as it flows through the town of Carbondale, as well as improvements to the efficiency of the town-owned Weaver Ditch headgate and diversion. Project goals are to: (1) restore the ecological integrity of the riparian zone through streambank stabilization, reconnection of the floodplain, and replace invasive weed communities and plant monocultures with healthy and diverse riparian plant regimes, while preserving healthy bird and wildlife habitat; (2) develop a long term, self-sustaining solution to improve river channel stability, fish habitat and spawning areas by promoting conditions that support and enhance instream biotic structure and diversity; (3) create a self-sustaining diversion and head gate structure for the Weaver Ditch to function as part of the river system while improving the water delivery for the Town of Carbondale and consistent with future ditch improvements and efficiencies; and (4) enhance passive user experiences of Riverfront Park through interpretive signs, trails, gathering spaces, and educational programs. The requested grant monies will be used to fund the planning, design, and permitting for the project.

Discussion: As described in the Colorado basin roundtable (BRT) chair's recommendation letter, this project was supported and recommended for approval by the roundtable on January 22, 2017. The project scored 7.25 of a possible 14.25 points on the Colorado BRT scoring matrix which measures how grants address roundtable objectives. While this is a lower score than other Colorado BRT grants, it reflects a more targeted program that still addresses the Colorado's Basin Implementation Plan goals.

This project assists in satisfying Colorado’s Water Plan Critical Goals and Actions as identified in Chapter 10.3, F. Watershed Health, including the goal to develop Stream Management Plans that can facilitate environmental and recreational projects and needs. In a sense, this proposed project is a step ahead of that, as it stems from the findings and recommendations of the completed Crystal River Management Plan (CRMP). The CRMP states that “The reaches of the Crystal River between Thompson Creek and the confluence with the Roaring Fork exhibit the most degraded overall functional condition” (5.4, CRMP). This project will work to reverse some of that degradation. In many cases the State’s In-Stream Flow right is rarely met. Improvements to the river channel and diversion structure may help with flows, and most definitely the overall goals of the ISF program to preserve the natural environment (Section 6.6, Colorado’s Water Plan)

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

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

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

Funding Summary / Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-Kind</u> | <u>Total</u> |
|--|--------------------|-----------------------|---------------------|
| Town of Carbondale | \$20,000 | \$0 | \$20,000 |
| Great Outdoors Colorado | \$50,000 | \$0 | \$50,000 |
| Environment Foundation Funding (Aspen Ski Co.) | \$9,300 | \$0 | \$9,300 |
| CWCB Watershed Restoration Grant | \$100,000 | n/a | \$100,000 |
| Sub-total | \$179,300 | \$0 | \$179,300 |
| WSRF Colorado Basin Account | \$20,700 | n/a | \$20,700 |
| Totals | \$200,000 | \$0 | \$200,000 |

CWCB Project Manager: Chris Sturm

Water Supply Reserve Fund – Grant and Loan Program
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(q)

Applicant & Grantee: South Metro WISE Authority

Water Activity Name: Regional Investigation of Salinity Management Options

Water Activity Purpose: Municipal/Industrial Study

County: Adams, Arapahoe, Denver, Douglas, and Jefferson Counties

Drainage Basin: South Platte

Water Source: South Platte return flows

Amount Requested: \$30,000 Metro Account
\$97,500 Statewide Account
\$127,500 Total Grant Request

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

- 31% of statewide request (meets 10% min)

Applicant Match (cash & in-kind) = \$67,500

- 69% of the statewide request (meets 10% min)

Total Match (Basin & Applicant) = \$97,500

- 100% of the statewide request (meets 50% min)
- 50% of the total project cost of \$195,000

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| Staff Recommendation: |
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| Staff recommends approval of up to \$30,000 from the Metro Account and \$97,500 from the Statewide Account to fund the project: Regional Investigation of Salinity Management Options. |
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Water Activity Summary: WSRF grant funds, if approved, will help the South Metro WISE Authority (SMWA) address water quality issues, including salinity management alternatives. This work is a continuation of the partnership between Aurora Water, Denver Water, and the WISE Authority to fully develop this regional water supply project. The Water Delivery Agreement between the parties addresses the need for this study, for the partners to utilize a treated, but unblended, water supply from Aurora Water's Prairie Waters system to Denver Water and the Authority through the WISE Authority distribution system.

The study will identify options to reduce salinity levels in water diverted from the South Platte River north of the Denver Region allowing for 10,000 acre-feet of reuse water to be utilized. The WISE Project includes the delivery of Aurora Water and Denver Water reusable return flows to the SMWA, allowing SMWA members to reduce dependence on non-renewable groundwater. WISE water is diverted from the South Platte River north of the Metro region, which regularly has Total Dissolved Solids concentrations exceeding the U.S. EPA secondary maximum contaminant level of 500 mg/L. Two common methods for reducing TDS concentrations are blending elevated TDS water with low TDS water or physical removal with desalination treatment technologies.

Discussion: As described in the Metro Roundtable chair's recommendation letter, this project was supported and recommended for approval on January 11, 2018. The WISE Partnership has been identified as a Metro and South Platte IPP for a number of years. This project assists in satisfying Colorado's Water Plan Critical Goals and Actions as identified in Chapter 10.3, A. Supply and Demand to help provide valuable information for water users on the South Platte River in future planning.

Through May 2030, Aurora Water and Denver Water have agreed to provide WISE with low TDS blending water. Following May 2030, Aurora Water and Denver Water may have other needs for this water and therefore may not be able to provide low TDS blend water to WISE. This investigation explores a wide array of options to mitigate high TDS reusable return flows from the South Platte. When practical, options will be configured to allow others in the region to use desalination options to combat similar salinity issues. This investigation is scheduled to start mid-June of 2018 and will be completed by June of 2019.

The WISE Authority was formed to implement the Water Infrastructure and Supply Efficiency (WISE) Project. The WISE Project membership includes: Centennial Water & Sanitation District, Cottonwood Water & Sanitation District, Dominion Water & Sanitation District, Inverness Water & Sanitation District, Meridian Metropolitan District, Parker Water & Sanitation District, Rangeview Metropolitan District, Stonegate Village Metropolitan District, and Town of Castle Rock. These municipalities serve the majority of water users in Douglas County and a small portion of water users in Arapahoe County.

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

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

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

Funding Summary / Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-Kind</u> | <u>Total</u> |
|------------------------------|--------------------|-----------------------|---------------------|
| South Metro WISE Authority | \$22,500 | \$12,000 | \$34,500 |
| Denver Water | \$11,250 | \$3,500 | \$14,750 |
| Aurora Water | \$11,250 | \$7,000 | \$18,250 |
| Subtotal | \$45,000 | \$22,500 | \$67,500 |
| WSRF Metro Account | \$30,000 | n/a | \$30,000 |
| WSRF Statewide Account | \$97,500 | n/a | \$97,500 |
| Totals | \$172,500 | \$22,500 | \$195,000 |

CWCB Project Manager: Megan Holcomb

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(r)**

Applicant & Grantee: Peak Spatial Enterprises Inc. & Chambers Econ and Analytics, LLC

Water Activity Name: Water Information / Real Estate Disclosure Tool – H2infO

Water Activity Purpose: Municipal, Education and Outreach Implementation

County: Denver, Adams, Arapahoe, Douglas, El Paso, Teller, and Pueblo

Drainage Basin: Front Range

Water Source: N/A

Amount Requested: \$10,000 Metro Account
\$10,000 Statewide Account
\$20,000 Total Grant Request

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

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

Applicant Match (cash & in-kind) = \$107,500

- 1075% of the statewide request (meets 10% min)

Total Match (Basin & Applicant) = \$117,500

- 1175% of the statewide request (meets 50% min)
- 92% of the total project cost of \$127,500

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| Staff Recommendation: |
| Staff recommends approval of up to \$10,000 from the Metro Account and \$10,000 from the Statewide Account to fund the project: Water Information / Real Estate Disclosure Tool – H2infO. |

Water Activity Summary: WSRF grant funds, if approved, will assist Peak Spatial Enterprises and Chambers Econ and Analytics continue to develop a water information disclosure tool. The tool is free, online, and uses public data aggregation. The disclosure tool links water supplier information with property buyers and real estate MLS to increase property buyer awareness of address-specific conservation plans, water planning, and municipal water suppliers. The overall goal of the project is to expand the knowledge and water ethic of urban/suburban water consumers and realtors by engaging them early in a home buying process and allowing them to include important water factors in their buying decisions.

The tool consolidates and communicates water information in a user friendly, accessible format allowing users to search by property address. With more than 50,000 annual real estate transactions from Denver County to Pueblo County, these municipal buyers are closely tuned into water metrics and conservation tools that apply to property transactions in which they have a stake. The real estate community is incentivized to use the tool to inform and serve all types of clients. Water suppliers benefit from consumer understanding of supplier details.

The project will: 1) Disseminate Water District Conservation Plans; 2) Provide nexus between Real Estate buyers and State level, Basin level, and District level Water Information; 3) Provide platform to disseminate other key State metrics of interest; 4) Supports the PEPO mission by providing contact with upwards of 45,000 residential real estate buyers/year in the selected counties who otherwise would likely not be water information consumers; and 5) Interact with State level Real Estate MLS services to disseminate critical water consumer information.

Discussion: As described in the Metro Roundtable chair's recommendation letter, this project was supported and recommended for approval on August 10, 2017. The Metro Roundtable evaluated the grant application, received briefings from the requestor and made recommendations for implementation (e.g. adding Adams County to the pilot county listing). The Metro Roundtable believes the tool offers tangible value to water providers and innovative and transparent access to Colorado homebuyers, the real estate market, current water consumers, and the business community engaged in real estate transactions. With Colorado's surging population this proposed grant introduces new residents moving to, and buying homes in, Colorado to the conservation ethic and supporting water provider conservation plans directly linked to their real estate purchase. The project serves the mission of Colorado's Water Plan as a public good.

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

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

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

Funding Summary / Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-Kind</u> | <u>Total</u> |
|--|--------------------|-----------------------|---------------------|
| Peak Spatial and Chambers Econ and Analytics | \$47,500 | \$0 | \$47,500 |
| Colorado's Water Plan Grant (CWCB) | \$60,000 | n/a | \$60,000 |
| Subtotal | \$107,500 | \$0 | \$107,500 |
| WSRF Metro Account | \$10,000 | n/a | \$10,000 |
| WSRF Statewide Account | \$10,000 | n/a | \$10,000 |
| Totals | \$127,500 | \$0 | \$127,500 |

CWCB Project Manager: Kevin Reidy

Water Supply Reserve Fund – Grant and Loan Program
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(s)

Applicant & Grantee: Littleton/Englewood Wastewater Treatment Facility

Water Activity Name: SWIFT2 – “South Platte Water Infrastructure from Today Creating Sustainable Water Infrastructure for Tomorrow”

Water Activity Purpose: Municipal/Industrial Study

County: Denver, Douglas, Jefferson, Adams, Arapahoe

Drainage Basin: South Platte

Water Source: South Platte

Amount Requested: \$25,000 Metro Account

Matching Funds: Applicant Match (in-kind only) = \$98,800

- 395% of the basin request (meets 25% min)
- 80% of the total project cost of \$123,800

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| Staff Recommendation: |
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| Staff recommends approval of up to \$25,000 from the Metro Account to fund the project: SWIFT2. |
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Water Activity Summary: WSRF grant funds, if approved, will help bring together partners from different agencies and disciplines to identify, evaluate, and create synergies around existing and proposed infrastructure in the Urban South Platte Watershed. Entities in the proposed study area are strategically situated to benefit from shared or coordinated infrastructure, increased reuse opportunities, efficiencies between interrelated systems, and scenarios that minimize the net cost to the collective water/wastewater ratepayer. Partner meetings began in 2017 and will continue monthly in 2018. The meetings start the conversation by highlighting past regional and national partnership successes and expand the conversation by allowing partners to share perspectives across sectors while focusing on goals and opportunities for projects within the basin designed to meet the supply and demand gap, increase water reuse, and create benefits to multiple users. Ultimately, if this project is successful, it will build toward a more thorough evaluation of one or more opportunities, and the partners may pursue a CWCB State Water Plan Grant in the fall of 2018.

Topics initially proposed for the monthly meetings include the following: (1) Regional Partnering Success, Colorado Focused; (2) One Water Case Studies, National Focused; (3) Wastewater Perspectives (Metro WW, Littleton/Englewood WW); (4) Water Supplier Perspectives (Denver Water, Roxborough WSD, Aurora Water, SMWSA); (5) Compilation and Evaluation of Partners' Geospatial Information (Infrastructure, Sources, Discharges); and (6) Partner Group Chartering and Next Steps (including identification of additional funding opportunities). Outcomes include the documentation of important discussion items and ideas to effectively communicate project results to the CWCB, Metro Roundtable, and external entities that may have an interest in future participation opportunities.

Discussion: As described in the Metro Roundtable chair's recommendation letter, this project was supported and recommended for approval on January 11, 2018. The group has already held two

successful meetings to initiate a conversation about regional opportunities that may help to address the needs identified in the South Platte Basin Implementation Plan (SPBIP) and Colorado's Water Plan. The project builds upon multiple identified goals and objectives from these documents, which are highlighted in the application, with a particular focus on opportunities for increased reuse and cooperative utilization of water and wastewater treatment and conveyance infrastructure. The grant funding will be used to support and focus additional meetings through the fall of 2018, and also includes a technical component for participants to share and overlay geospatial data.

The SWIFT2 project goals are wholly in alignment with Colorado's Water Plan, which provides the following insights regarding a new era of collaborative water management in Colorado: "Over the past decade, historically adversarial views have shifted toward: (1) the benefits of collaborating on win-win projects that benefit all parties; (2) putting money to work solving problems instead of escalating litigation; and (3) capitalizing on the regional connections that tie Colorado together economically and hydrologically—instead of ignoring those connections." (Colorado's Water Plan, pg. 8). The project touches on multiple specific goals of the SPBIP including the identification of reuse sources, reuse limitations. Additionally, opportunities to overcome previously identified limitations will likely be discovered as a result of including multiple major drinking water and wastewater treatment providers on this project.

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

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

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

Funding Summary / Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-Kind</u> | <u>Total</u> |
|--|--------------------|-----------------------|---------------------|
| Aurora Water | \$0 | \$4,200 | \$4,200 |
| Denver Water | \$0 | \$17,700 | \$17,700 |
| Roxborough Water & Sanitation District | \$0 | \$6,800 | \$6,800 |
| South Metro WISE Authority | \$0 | \$12,200 | \$12,200 |
| Littleton/Englewood Wastewater Treatment Plant | \$0 | \$27,300 | \$27,300 |
| Carollo Engineers | \$0 | \$20,600 | \$20,600 |
| GBSM | \$0 | \$10,000 | \$10,000 |
| Subtotal | \$0 | \$98,800 | \$98,800 |
| WSRF Metro Account | \$25,000 | n/a | \$25,000 |
| Totals | \$25,000 | \$98,800 | \$123,800 |

CWCB Project Manager: Megan Holcomb

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(t)**

Applicant & Grantee: Rio Grande Headwaters Land Trust

Water Activity Name: Paulson Conservation Easement

Water Activity Purpose: Environmental & Agricultural Implementation

County: Rio Grande County

Drainage Basin: Rio Grande

Water Source: N/A

Amount Requested: \$18,000 Rio Grande Basin Account
\$157,000 Statewide Account
\$175,000 Total Grant Request

Matching Funds: Basin Account Match = \$18,000

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

Applicant Match (cash & in-kind) = \$230,000

- 146% of the statewide request (meets 10% min)

Total Match (Basin & Applicant) = \$248,000

- 158% of the statewide request (meets 50% min)
- 61% of the total project cost of \$405,000

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| Staff Recommendation: |
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| Staff recommends approval of up to \$18,000 from the Rio Grande Basin Account and \$157,000 from the Statewide Account to fund the project titled: Paulson Conservation Easement. |
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Water Activity Summary: WSRF grant funds, if approved, will contribute to the purchase of a conservation easement on the Paulson Ranch, facilitated by the Rio Grande Headwaters Land Trust (RiGHT). The conservation easement will prevent a future subdivision, limit development, and tie significant senior water rights to the land while maintaining some future flexibility for other uses that accomplish conservation goals. RiGHT will use the requested state and basin funds to provide matching funds towards the purchase of a conservation easement on 180 acres of working ranch with significant senior water rights and in an important corridor of conserved lands. This project is a part of RiGHT's successful Rio Grande Initiative, which benefits both non-consumptive and consumptive water needs in the Rio Grande Basin by protecting over 25,000 acres along the Rio Grande and Conejos rivers.

The conservation easement will tie 1.5 cfs of Atencio (Priority #43), 1 cfs of Horner-Ydren (Priorities #14 and #44), and .35 cfs of John Anderson (Priority #193) surface water rights to the property. These water rights flood irrigate about 150 acres of grass seasonally wet meadow, which is used primarily for hay production. The irrigation water also helps support significant riparian area and 35 acres of wetlands, including 10 acres of potential habitat for the endangered Southwestern Willow Flycatcher that will be protected forever. This project is near seven other easements and continues to build a corridor of conservation on the Rio Grande between Del Norte and Monte Vista.

Discussion: As described in the Rio Grande Roundtable chair's recommendation letter, this project was supported and recommended for approval on November 14, 2017. Conservation of the Paulson Ranch meets not only RiGHT's Rio Grande Initiative goals, but is specifically listed as an IPP in the Rio Grande Basin Implementation Plan (RGBIP) meeting five of the fourteen BIP goals:

- # 1. Protect, preserve and/or restore the sustainability of the Rio Grande Basin watersheds by focusing on the watershed health and ecosystem function;
- # 5. Manage water use to help sustain the agricultural economy throughout the Basin's communities;
- # 6. Support the development of projects and methods that have multiple benefits for agricultural, municipal and industrial, and environmental and recreation water needs;
- # 11. Protect, preserve and enhance terrestrial and aquatic wildlife habitats throughout the Basin;
- # 12. Conserve, restore and maintain wetlands and riparian areas for the benefit of a healthy watershed.

The conservation easement will provide these benefits by limiting development to less impactful areas of the property, preventing subdivision that fragments land management and can damage ecosystem function, and by ensuring that the ownership of the water rights stays with the conserved property in perpetuity. RiGHT ties the water to the land with deed language that keeps the water with the land while also allowing some flexibility for changes, so long as the new uses still meet the conservation goals of the easement.

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

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

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

Funding Summary / Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-Kind</u> | <u>Total</u> |
|--|--------------------|-----------------------|---------------------|
| Gates Family Foundation (<i>pending</i>) | \$100,000 | \$0 | \$100,000 |
| Landowner Donation | \$0 | \$130,000 | \$130,000 |
| Subtotal | \$100,000 | \$130,000 | \$230,000 |
| WSRF Rio Grande Basin Account | \$18,000 | n/a | \$18,000 |
| WSRF Statewide Account | \$157,000 | n/a | \$157,000 |
| Totals | \$275,000 | \$130,000 | \$405,000 |

CWCB Project Manager: Megan Holcomb

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(u)**

Applicant & Grantee: Conejos Water Conservancy District

Water Activity Name: Conejos Diversions: Richfield to ConConCo

Water Activity Purpose: Agricultural & Environmental Implementation

County: Conejos County

Drainage Basin: Conejos

Water Source: Platoro Reservoir and Conejos River

Amount Requested: \$54,692 Rio Grande Basin Account
\$332,588 Statewide Account
\$387,280 Total Grant Request

Matching Funds: Basin Account Match = \$54,692

- 16% of statewide request (meets 10% min)

Applicant Match (cash & in-kind) = \$159,720

- 48% of the statewide request (meets 10% min)

Total Match (Basin & Applicant) = \$214,412

- 64% of the statewide request (meets 50% min)
- 39% of the total project cost of \$547,000

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| Staff Recommendation: |
| Staff recommends approval of up to \$54,692 from the Rio Grande Basin Account and \$332,588 from the Statewide Account to fund the project titled: Conejos Diversions: Richfield to ConConCo. |

Water Activity Summary: WSRF grant funds, if approved, will assist the Conejos Water Conservancy District (the District) to incorporate the Richfield Canal Company's diversion off the Conejos River into CWCB's previously funded Conejos River System Confluence Management Project (2013). The project addresses Richfield's difficulty in obtaining its water right when in priority and extends the District's growing network of electronic gauging stations and automated control gates. The District's networked water-management resources will be extended to the Valdez 6 and 10 diversions and the Salazar 8 and 12 diversions, with WSRF funds used to (1) improve, replace, and/or install new diversion and sluice structures; (2) add automated control gates to each system; and (3) integrate each diversion into the District's Whole River water management strategy.

This suite of projects will improve the Department of Water Resources' (DWR) ability to meet Colorado's Rio Grande Compact obligation by establishing timely and accurate measurement at the ConConCo Gauge. Due to eroded river banks and unstable stream conditions, DWR is unable to get a viable discharge measurement during low flows at the "Conejos Station Near Conejos." Grant funds will help design and install additional automation and flow-management systems in the ConConCo reach of the River near the ConConCo gauge. Gaining timely and accurate measurements during low flows at that location will significantly improve the delivery of senior water rights in priority, enabling real-time management of Compact flows.

Discussion: As described in the Rio Grande Roundtable chair’s recommendation letter, this project was supported and recommended for approval on November 14, 2017. For the past ten years the Conejos Water Conservancy District has established a “Whole River Strategy,” a collaborative multi-ditch water management plan which maximizes consumptive water use efficiencies across its network of ditch companies, addressing multiple consumptive and non-consumptive needs identified in the Rio Grande Basin Implementation Plan (RGBIP). From Platoro Reservoir to the state line with New Mexico, project after project, the District works with ditch companies to improve, replace, and/or to install new diversion and sluice structures on critical reaches of the Conejos, adding automated control gates to each system and integrating each project into the District’s growing network of electronic gauging stations.

This project assists in satisfying Colorado’s Water Plan Critical Goals and Actions as identified in Chapter 10.3, A. *Supply and Demand* and D. *Agriculture*, by extending the District’s agricultural area included in efficient water management strategy through automation and telemetry by an additional 6,000 acres, while helping to ensure accurate compliance with the Rio Grande Compact.

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

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

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

Funding Summary / Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-Kind</u> | <u>Total</u> |
|-------------------------------|--------------------|-----------------------|---------------------|
| Richfield Canal Company | \$5,000 | \$32,000 | \$37,000 |
| Salazar 8 & 12 Ditch | \$5,500 | \$20,500 | \$26,000 |
| Valdez 6 & 10 Ditch | \$5,000 | \$11,720 | \$16,720 |
| ConConCo (“the District”) | \$80,000 | \$0 | \$80,000 |
| Subtotal | \$46,500 | \$64,220 | \$159,720 |
| WSRF Rio Grande Basin Account | \$54,692 | n/a | \$54,692 |
| WSRF Statewide Account | \$332,588 | n/a | \$332,588 |
| Totals | \$433,780 | \$64,220 | \$547,000 |

CWCB Project Manager: Megan Holcomb

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(v)**

Applicant & Grantee: Trout Unlimited

Water Activity Name: Spruce Lakes Wilderness Reservoir Maintenance Project

Water Activity Purpose: Environmental & Recreational Implementation

County: Mineral County

Drainage Basin: Rio Grande

Water Source: Spruce Lakes

Amount Requested: \$65,500 Rio Grande Basin Account

Matching Funds: Applicant Match (cash & in-kind) = \$32,380

- 49% of the basin request (meets 25% min)
- 33% of the total project cost of \$97,880

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| Staff Recommendation: |
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| Staff recommends approval of up to \$65,500 from the Rio Grande Basin Account to fund the project titled: Spruce Lakes Wilderness Reservoir Maintenance Project. |
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Water Activity Summary: WSRF grant funds, if approved, will help address maintenance issues at two reservoirs located within the Weminuche Wilderness that have been severely impacted by Spruce Bark Beetle. Using explosives, the project will directionally fall dead standing spruce trees away from the reservoirs, reducing the long-term maintenance requirements as directed by Colorado's State Engineers Office for Dam Safety. The water rights in the reservoirs (202 AF) are privately owned and used for irrigation in the Del Norte area in the San Luis Valley. The reservoirs are stocked with native Rio Grande Cutthroat trout by Colorado Parks and Wildlife for the benefit of the public as a recreational resource and to protect the rare native trout in its native range. Spruce Lakes are located along the Continental Divide Trail and provide substantial recreational and aesthetic benefits to trail users and the general public. The objective is to fall the dead trees away from the lakes to reduce maintenance in the future that is incredibly difficult to accomplish with Wilderness approved tools. The project is also designed to maintain wilderness character by simulating a natural fall down event rather than clean cut stumps. The project is a good example of public/private partnership on public lands.

Discussion: As described in the Rio Grande Roundtable chair's recommendation letter, this project was supported and recommended for approval on November 14, 2017.

This project assists in satisfying Colorado's Water Plan Critical Goals and Actions as identified in Chapter 10.3, *F. Watershed Health, Environment, and Recreation*, by protecting economic values to local economies that rely on environmental and recreational water uses. This project also aligns with the Rio Grande Basin Implementation Plan. Specifically, the project addresses 7 out of 14 basin-wide goals as follows:

- #2) Protect and preserve the doctrine of prior appropriation and vested water rights, and fully utilize Colorado's compact entitlements as specified under the Rio Grande and Costilla Creek compacts.
- #4) Operate, maintain, rehabilitate, and create necessary infrastructure to meet the Basin's long-term water needs, including storage.
- #5) Manage water use to sustain optimal agricultural economy throughout the Basin's communities
- #6) Support the development of projects and methods that have multiple benefits for agricultural, municipal and industrial, and environmental and recreational water needs.
- #10) Promote water management and administrative practices that are adaptive, flexible, and responsive to optimize multiple benefits.
- #11) Protect, preserve, and enhance terrestrial and aquatic wildlife habitats throughout the Basin.
- #14) Maintain and enhance water-dependent recreational activities

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

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

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

Funding Summary / Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-Kind</u> | <u>Total</u> |
|---|-----------------|-----------------|-----------------|
| United States Forest Service | \$0 | \$24,880 | \$24,880 |
| Rick Davie, David Colville, Harold Peck | \$7,500 | \$0 | \$7,500 |
| Subtotal | \$7,500 | \$24,880 | \$32,380 |
| WSRF Rio Grande Basin Account | \$65,500 | n/a | \$65,500 |
| Totals | \$73,000 | \$24,880 | \$97,880 |

CWCB Project Manager: Megan Holcomb

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(w)**

Applicant & Grantee: Colorado Open Lands
Water Activity Name: Anderson Lazy EA Conservation Easement
Water Activity Purpose: Environmental & Agricultural Implementation
County: Rio Grande
Drainage Basin: Rio Grande
Water Source: Pinos Creek
Amount Requested: \$36,200 Rio Grande Basin Account
Matching Funds: Applicant Match (cash & in-kind) = \$166,751

- 460% of the basin request (meets 25% min)
- 82% of the total project cost of \$202,951

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| Staff Recommendation: |
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| Staff recommends approval of up to \$36,200 from the Rio Grande Basin Account to help fund the project titled: Anderson Lazy EA Conservation Easement. |
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Water Activity Summary: WSRF grant funds, if approved, will assist Colorado Open Lands in the implementation of a conservation easement on the Anderson Lazy EA Ranch. This project will ensure that the existing hydrology remains intact allowing return flows to reach downstream users and the river by tying senior water rights to the land. The completion of this project will prevent the subdivision of this historical agriculture property, limit development, and maintain key wildlife corridors.

The Anderson Lazy EA Ranch is a 164.5 acre working ranch with significant senior water rights and part of an important agricultural corridor. The conservation easement will tie 1.4 cfs of Pinos Creek water rights to the property. This includes 1.0 cfs from the Robran, where the ranch is the first user served on the ditch and 0.3 cfs from the Little Anna where the ranch is the last to receive water. This water right provides flood irrigation to 60 acres of alfalfa and grass mix and 80 acres of wet meadow. 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 ranching landscape and the historic water use patterns along the Rio Grande and its tributaries by reducing the threat of encroaching subdivisions.

Discussion: As described in the Rio Grande Roundtable chair's recommendation letter, this project was supported and recommended for approval on November 14, 2017. This project has been planned by a variety of partners who have committed not only financially to the project, but to the ethic of keeping working agriculture working in our rural communities. The Colorado Water Plan recognizes the *"the increasing pressure to dry up agriculture, as Municipal and Industrial need expands is real and that Coloradans will continue to increase their consumption of a variety of locally grown agricultural products that ranches and farms across the state provide."* The Rio Grande Basin

Roundtable has long recognized that in all communities the core social, political and economic institutions are supported by water and that when we protect the water rights and uses we will ensure the viability of these communities and their rich ecology, heritage and food production for generations to come.

This project assists in satisfying Colorado's Water Plan Critical Goals and Actions as identified in Chapter 10.3, *D. Agriculture* and *F. Watershed Health, Environment, and Recreation*, by helping to maintain Colorado's agricultural productivity and by protecting economic values to local economies that rely on environmental water uses while safeguarding wildlife corridors.

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

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

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

Funding Summary / Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-Kind</u> | <u>Total</u> |
|--|--------------------|-----------------------|---------------------|
| USDA NRCS Agricultural Conservation Easement Program | \$100,751 | \$0 | \$100,751 |
| Colorado Open Lands | \$15,000 | \$0 | \$15,000 |
| Landowner | \$0 | \$51,000 | \$51,000 |
| Subtotal | \$115,751 | \$51,000 | \$166,751 |
| WSRF Rio Grande Basin Account | \$36,200 | n/a | \$36,200 |
| Totals | \$151,951 | \$24,880 | \$202,951 |

CWCB Project Manager: Megan Holcomb

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(x)**

Applicant & Grantee: Mineral County Fairgrounds Association

Water Activity Name: Development of Irrigation Water Right

Water Activity Purpose: Environmental & Recreational Implementation

County: Mineral

Drainage Basin: Rio Grande

Water Source: Willow Creek

Amount Requested: \$9,190 Rio Grande Basin Account

Matching Funds: Applicant Match (cash & in-kind) = \$1,500

- 16% of the basin request (*Does not meet 25% min. Please see eligibility requirements on page 2 of this summary*)
- 14% of the total project cost of \$10,690

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| Staff Recommendation: |
| Staff recommends approval of up to \$9,190 from the Rio Grande Basin Account to help fund the project titled: Development of Irrigation Water Right. |

Water Activity Summary: WSRF grant funds, if approved, will assist Mineral County Fairgrounds Association (MCFA) to resume use of the Mineral Park Ranch Ditch (1.2cfs) and isolate irrigation water from contacting contaminated sediments still in residence under a recently capped and reclaimed project area. Lower Willow Creek land area (below Creede) contains significant mining waste that has been mitigated by the Lower Willow Creek Restoration Company in cooperation with the Willow Creek Reclamation Committee, State Health Department, and the City of Creede. MCFA identified a need to construct 1,165 feet of pipeline to isolate irrigation water from Willow Creek through the newly constructed head gate, transporting it safely through approximately 1,600 feet of soil contaminated with waste from historic mining activity. The pipeline, designed and engineered by the Natural Resource Conservation Service, is the most cost effective way to move water through this area.

This irrigation water will be outletted, 1 mile south of the inlet, where an irrigation structure will be placed, into a 10 acre native grassland on Mineral County Fairground's property. The water will improve the density of native grasses, potential erosion will be abated, and the need for mechanical and chemical weed control will be greatly reduced. Improved ground cover in the native grasslands will also enhance recreational activities such as hiking, biking and bird watching, and increase the feed available to deer and elk during the critical winter months.

Discussion: As described in the Rio Grande Roundtable chair's recommendation letter, this project was supported and recommended for approval on November 14, 2017. This project assists in satisfying Colorado's Water Plan Critical Goals and Actions as identified in Chapter 10.3, *F. Watershed Health, Environment, and Recreation*, through multiple benefits including water quality improvements, the preservation and restoration of ecosystem function on 10 acres of critical winter habitat, and the preservation of historic water rights.

The Mineral Park Ranch Ditch was constructed in 1896 and adjudicated in 1903. This project will help protect and preserve a historic water right and will contribute to fully utilizing Colorado's compact entitlements. When in priority, this ditch irrigates native plants and grasses on land owned by MCFA and lying within the area identified by Colorado Division of Parks and Recreation as being "Critical Winter Habitat" for deer and elk. By maintaining and improving the vegetation on the irrigated land, additional environmental benefit comes from prevention of erosion and proliferation of noxious weeds. The MCFA provides recreational opportunities to area residents and visitors which contribute to local economies. Keeping the vegetation thriving improves the quality of recreational activities.

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

Eligibility Requirements: The application *does not* meet the eligibility component of match requirements (25% of basin request must be met by applicant match funds, either cash, in-kind, or both). This issue came up at the Rio Grande Basin Roundtable meeting in October 2017. Based on discussion, without significant roundtable support (86% of project costs) the Mineral County Fairgrounds Association would not be able to pursue this small water project (\$10,690), as such, the Rio BRT recommends that the CWCB waive the 25% match requirement.

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

Funding Summary / Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-Kind</u> | <u>Total</u> |
|--|--------------------|-----------------------|---------------------|
| Mineral County Fairgrounds Association | \$300 | \$0 | \$300 |
| Mike Dill (Personal Tractor) | \$0 | \$1,200 | \$1,200 |
| Subtotal | \$300 | \$1,200 | \$1,500 |
| WSRF Rio Grande Basin Account | \$9,190 | n/a | \$9,190 |
| Totals | \$9,490 | \$1,200 | \$10,690 |

CWCB Project Manager: Megan Holcomb

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(y)**

Applicant & Grantee: Mountain Studies Institute
Water Activity Name: Stream Management Planning Phase I
Water Activity Purpose: Multi-use Study
County: Archuleta
Drainage Basin: San Juan River Basin
Water Source: Upper San Juan River
Amount Requested: \$22,545 Southwest Basin Account
Matching Funds: Applicant Match (cash & in-kind) = \$86,325

- 115% of the Basin Account request (meets 25% min)
- 79% of the total project cost of \$108,870

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| Staff Recommendation: |
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| Staff recommends approval of up to \$22,545 from the Southwest Basin Account to help fund the project titled: Eagle River Integrated Water Management Plan. |
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Water Activity Summary: WSRF grant funds, if approved, will assist Mountain Studies Institute (MSI) in the development of a Stream Management Plan (SMP) for the Upper San Juan River Basin. The Southwest Basin Roundtable's (SWBRT) Basin Implementation Plan (BIP) identifies a significant gap in information necessary to understand environmental and recreational water needs and describes a two-step process to develop information and initiate collaborative efforts to address identified needs. This project fits squarely within that process. Applying lessons learned in the San Miguel SMP Pilot Program, this project will address the identified information gap by tackling the first critical step: community engagement, development of a stakeholder group, and review of existing data and information.

MSI (applicant), Trout Unlimited, and Western Wildscapes propose convening a stakeholder group to facilitate a community-led process to assess water needs and develop a SMP for the Upper San Juan River Basin. The outcomes of Phase I (this proposal) will be: (1) an organized stakeholder group, led by a steering committee, with the structure, capacity and collective interest in pursuing a coordinated SMP; (2) a review of current data and information; and (3) a work plan for moving forward with a stream assessment and SMP planning. Envisioned as a three-phase process, the ultimate purpose of the project is to initiate the SMP process. MSI will share findings with the stakeholder group and coordinate stakeholder interests and Lotic efforts to develop a scope of work and funding proposal for moving forward with the Phase II of the SMP.

Discussion: As described in the Southwest basin roundtable (BRT) chair's recommendation letter, this project was supported and recommended for approval by the roundtable on January 10, 2018. The Upper San Juan River Basin SMP is identified as one of the SWBRT IPP's, PP# 17-SJ and aligns with other San Juan River Sub-Basin efforts and is consistent with the SWBRT IPP #1-MB

related to address environmental and recreational needs. Further, activities outlined in this effort will work in coordination with and support of concurrent IPP's, namely the San Juan Headwaters Forest Health Partnership (IPP #4). In working with the Partnership, this SMP effort will capitalize on a unique opportunity to establish forest and watershed health connections in both data review processes and project prioritization.

This project assists in satisfying Colorado's Water Plan Critical Goals and Actions as identified in *Chapter 10.3, F. Watershed Health and Environment* and *Chapter 10.3, H. Education, Outreach, and Innovation* which includes the development of watershed coalitions and watershed master plans that address the needs of a diverse set of local stakeholders. Because a stakeholder group to coordinate efforts in the Upper San Juan Basin does not currently exist, this proposal is a critical first step toward the success of any SMP efforts. In developing this proposal, MSI and partners conducted an assessment of historic efforts and will continue to build off of local efforts and findings.

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

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

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

Funding Summary / Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-Kind</u> | <u>Total</u> | <u>Pending</u> |
|---|--------------------|-----------------------|---------------------|-----------------------|
| Mountain Studies Institute | \$1,000 | \$0 | \$1,000 | Secured |
| Trout Unlimited, Five Rivers Chapter | \$1,000 | \$0 | \$1,000 | Secured |
| San Juan Water Conservancy District | \$1,000 | \$0 | \$1,000 | Secured |
| The Nature Conservancy | \$2,000 | \$0 | \$2,000 | Secured |
| CWCB Colorado Watershed Restoration Program | \$45,090 | \$0 | \$45,090 | Secured |
| Southwest Water Conservation District | \$13,945 | \$0 | \$13,945 | Pending |
| Pagosa Area Water and Sanitation District | \$2,000 | \$0 | \$2,000 | Pending |
| Town of Pagosa Springs | \$1,600 | \$0 | \$1,600 | Pending |
| Collective In-kind | \$0 | \$18,690 | \$0 | Secured |
| Sub-total | \$67,635 | \$18,690 | \$86,325 | |
| WSRF Southwest Basin Account | \$22,545 | n/a | \$22,545 | |
| Totals | \$90,180 | \$18,690 | \$108,870 | |

CWCB Project Manager: Megan Holcomb

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(z)**

Applicant & Grantee: Town of Rico

Water Activity Name: Town of Rico Water System Engineer's Analysis

Water Activity Purpose: Municipal & Industrial Study

County: Dolores

Drainage Basin: Dolores

Water Source: Silver Creek

Amount Requested: \$30,000 Southwest Basin Account
\$30,000 Statewide Account
\$60,000 Total Grant Request

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

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

Applicant Match (cash & in-kind) = \$60,000

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

Total Match (Basin & Applicant) = \$90,000

- 300% of the statewide request (meets 50% min)
- 75% of the total project cost of \$120,000

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| Staff Recommendation: |
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| Staff recommends approval of up to \$30,000 from the Southwest Basin Account and \$30,000 from the Statewide Account to fund the project titled: Town of Rico Water System Engineer's Analysis. |
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Water Activity Summary: WSRF grant funds, if approved, will help the Town of Rico engage an engineering firm to provide a detailed analysis of Rico's water systems with the goal of increasing water efficiency, quality, and productivity for Rico residents. The proposed water system analysis would help Rico continue to provide safe drinking water and would be the first step in an attempt to meet an expected "Municipal Gap" should the Town of Rico enjoy moderate growth.

The Town of Rico has two diversion points. One is Rico Well #1, dated June 2010, and the other is the Silver Creek Flume, dated June 1968. At this time, the Silver Creek system is offline. The proposed project consists of an analysis and feasibility study to determine what it would take to re-activate the Silver Creek System. It would also include an evaluation and upgrade plan that would help resolve an average monthly water loss of 47% from the well system. The Town is also exploring the possibility of combining the two systems to create a more reliable water source. WSRF funding would be used to hire an engineering firm to help Rico accomplish the following objectives: (1) enhance the Town of Rico's municipal water supply by reactivating the Silver Creek system; (2) increase the efficiency of Rico's water pipes and reduce water loss from leaks; and (3) create a plan to replace existing exterior meter boxes with interior meters boxes over the course of several years.

Discussion: As described in the Southwest Roundtable (SWBRT) chair's recommendation letter, this project was supported and recommended for approval on January 10, 2018. The project meets identified gaps in municipal water supplies - a goal recognized in both Colorado's Water Plan and The SWBRT Basin Implementation Plan. Rico is becoming a source of worker housing for those unable to afford housing in Telluride, so growth pressure is inevitable. The SWBRT strongly supports the request for statewide funds because this project aims to reconcile the protection of the Instream Flow, while allowing Rico to accommodate future growth.

The Town of Rico commissioned an engineering report toward the end of 1995. This report was predicated on the expectation the Rico would grow from a population of approximately 300 people to a population of 2000 within twenty years. It was also generated during the time that the Silver Creek system was providing water to the Town of Rico. The report analyzed eleven alternatives for supplying Rico with enough water for 2000 people. The Town of Rico decided to implement option eleven. This alternative suggested obtaining junior water rights on the Dolores River and constructing a well that would not require a treatment plant. The well was drilled and the new pipeline was constructed. Unfortunately however, water rights acquired fell far short of expectations. With Silver Creek offline, the 0.178 cfs obtained for the well allows for very little population growth.

Due to changes in the Colorado Department of Health and Environment (CDPHE) regulations regarding filtration of surface water, the Silver Creek system is no longer in compliance and is being used only as an emergency backup should Well #1 fail. The decree for the Silver Creek diversion point allows Rico 0.28 cfs with an additional 2.72 cfs being conditional. If the Town of Rico were to reactivate the Silver Creek water system, it would develop 202.85 acre feet per year (providing an additional 0.28 cfs) and would save 14.24 - 16.64 acre feet per year (reducing Rico's average monthly water loss from 47% to 20%).

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

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

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

Funding Summary / Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-Kind</u> | <u>Total</u> |
|--|--------------------|-----------------------|---------------------|
| Town of Rico | \$30,000 | \$0 | \$30,000 |
| Southwestern Water Conservation District | \$30,000 | \$0 | \$30,000 |
| Subtotal | \$60,000 | \$0 | \$60,000 |
| WSRF Southwest Basin Account | \$30,000 | n/a | \$30,000 |
| WSRF Statewide Account | \$30,000 | n/a | \$30,000 |
| Totals | \$120,000 | \$0 | \$120,000 |

CWCB Project Manager: Megan Holcomb

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(aa)**

Applicant & Grantee: Ducks Unlimited, Inc.

Water Activity Name: Sambrito Wetlands

Water Activity Purpose: Environmental & Recreational Implementation

County: Archuleta

Drainage Basin: Southwest

Water Source: Sambrito Wetlands

Amount Requested: \$50,000 Southwest Basin Account
\$170,000 Statewide Account
\$220,000 Total Grant Request

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

- 29% of statewide request (meets 10% min)

Applicant Match (cash & in-kind) = \$179,717

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

Total Match (Basin & Applicant) = \$229,717

- 135% of the statewide request (meets 50% min)
- 57% of the total project cost of \$399,717

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| Staff Recommendation: |
| Staff recommends approval of up to \$50,000 from the Southwest Basin Account and \$170,000 from the Statewide Account to fund the project titled: Sambrito Wetlands. |

Water Activity Summary: WSRF grant funds, if approved, will contribute toward the rehabilitation of water delivery infrastructure and restoration of shallow water wetland functionality at Sambrito State Wildlife Area in partnership with the Bureau of Reclamation, Colorado Parks and Wildlife (CPW), the Southwest Wetlands Focus Area, and Ducks Unlimited. The Sambrito Wildlife Area is Federal Land owned by the Bureau of Reclamation and managed under agreement by CPW. Sambrito is part of a wetland complex in Colorado that was enhanced to benefit wildlife during construction of Navajo Dam on the San Juan River. Since its construction, the water infrastructure and ditches have fallen into disrepair, resulting in diminished environmental and recreational benefits. In 2012, CPW commissioned a Management Plan which identified several areas where infrastructure improvements could be made to restore wetland function and increase recreational opportunities. This proposal presents the key water infrastructure improvement activities necessary to restore 100 acres of the Sambrito wetlands to full functionality.

Specifically, WSRF funding will be utilized to (1) survey, complete final engineering drawings, and solicit competitive construction bids; (2) construct the property (includes installation of 1,800 linear feet of pipeline, numerous water control structures, screw gates, removal of dilapidated infrastructure, improve existing ditches and embankments, construct additional embankments, and install several

inverted-v rock vanes in the stream channel); and (3) provide construction management and grant administration.

Discussion: As described in the Southwest Roundtable (SWBRT) chair’s recommendation letter, this project was supported and recommended for approval on January 10, 2018. The Sambrito wetland project is one of six IPPs in the San Juan and Piedra river basins (Southwest Basin Implementation Plan), ready for implementation. More specifically, Sambrito is only one of two IPP’s aimed at enhancing and creating wetlands.

This project assists in satisfying Colorado’s Water Plan Critical Goals and Actions as identified in Chapter 10.3, *F. Watershed Health, Environment, and Recreation*, by helping to:

- *Recover Imperiled Species:* the New Mexico Meadow Jumping Mouse and the Southwestern Willow Flycatcher will both benefit from the work we have proposed.
- *Enhance Environmental & Recreational Economic Values:* The positive financial impact that birders, hunters, and fisherman bring to rural communities, like those near Sambrito, are critical as several small businesses are dependent upon seasonal tourism.
- *Protect Healthy Environments:* A primary benefit of this project will be an increase in migratory bird viewing and recreation opportunities with restoration and creation of shallow water habitat. The ponds will provide high-quality habitat for (mostly nonbreeding) waterfowl that utilize Sambrito in fall, winter and, especially, spring.
- *Promote Protection & Restoration of Water Quality:* Once restored, the type of soils, rich natural diversity of plants, and seasonal hydrology of the site will help remove sediment and filter out nutrients and environmental contaminants before the water enters Navajo reservoir.

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

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

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

Funding Summary / Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-Kind</u> | <u>Total</u> |
|------------------------------|--------------------|-----------------------|---------------------|
| U.S. Bureau of Reclamation | \$179,717 | \$0 | \$179,717 |
| WSRF Southwest Basin Account | \$50,000 | n/a | \$50,000 |
| WSRF Statewide Account | \$170,000 | n/a | \$170,000 |
| Totals | \$399,717 | \$0 | \$399,717 |

CWCB Project Manager: Megan Holcomb

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(bb)**

Applicant & Grantee: Town of Ignacio
Water Activity Name: Ignacio Irrigation Utility Improvements Project
Water Activity Purpose: Agricultural Implementation
County: La Plata
Drainage Basin: Los Pinos
Water Source: Los Pinos River
Amount Requested: \$48,750 Southwest Basin Account
Matching Funds: Applicant Match (cash & in-kind) = \$81,250

- 166% of the Basin Account request (meets 25% min)
- 63% of the total project cost of \$130,000

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| Staff Recommendation: |
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| Staff recommends approval of up to \$48,750 from the Southwest Basin Account to help fund the project titled: Ignacio Irrigation Utility Improvements Project. |
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Water Activity Summary: WSRF grant funds, if approved, will help the Town of Ignacio complete improvements to the irrigation utility distribution piping and storage pond. A water model study is currently underway and studying distribution piping and storage pond improvements; distribution piping improvements will focus on improved system pressurization, control and looping and storage improvements will focus on pond expansion, lining and inlet/outlet piping, and completion of this work will improve overall water delivery to customers and enhance and enlarge storage. Currently, the Irrigation Utility serves approximately 250 customers with irrigation water supplied via water rights that originate from the Los Pinos River (Town Rights: 0.3 cfs absolute, 0.25 cfs conditional, and 128 BIA Goodnight Ditch shares) and conveyed to a small storage pond.

These improvements will also aide in providing future service when growth occurs within Ignacio. Utilization of irrigation water reduces the use of potable water for typical residential watering needs for lawns and gardens. Objectives include the following:

1. Improve water delivery to some customers who currently have minimum operating pressure due to low-head pressure caused by customer proximity to the storage pond.
2. Improve distribution piping with the addition of control valving for better system isolation and looping.
3. Improve and expand the current storage facilities resulting in less system water lose and expanded capacity for future growth and use.
4. Improve the use of irrigation water throughout the utility service area resulting in the reduced use of potable water for lawn, garden and landscaping water needs.

Discussion: As described in the Southwest Basin Roundtable (SWBRT) chair's recommendation letter, this project was supported and recommended for approval by the roundtable on January 11,

2018. The project builds on SWBRT IPP #7-LP: *Infrastructure improvements, expansions and enlargements to distribution systems and storage facilities*. What is unique about the proposal is that Ignacio is expanding their capacity to serve lot irrigators with untreated water. This approach will push the need for very expensive treatment plant expansion into the future.

This project also assists in satisfying Colorado's Water Plan Critical Goals and Actions as identified in *Chapter 10.3, A. Water Supply-Demand Gap* and *B. Conservation* by addressing municipal demand management. Watershed management and instream flows are major factors that affect Ignacio, and this water activity has been dependent on proper oversight of both of these key water issues. The Statewide Water Supply Initiative and specifically the ongoing update further look into watershed management and instream flows relative to specific Basin Implementation Plans. The SWBRT has explicitly identified this Ignacio Water Activity (IPP ID 7-LP), and is in the process of updating the IPP relative to the current and proposed utility objectives.

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

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

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

Funding Summary / Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-Kind</u> | <u>Total</u> |
|---|--------------------|-----------------------|---------------------|
| Town of Ignacio - Irrigation Utility Fund | \$32,500 | \$0 | \$32,500 |
| Southwest Water Conservation District | \$48,750 | n/a | \$48,750 |
| Subtotal | \$81,250 | \$0 | \$81,250 |
| WSRF Southwest Basin Account | \$48,750 | n/a | \$48,750 |
| Totals | \$130,000 | \$0 | \$130,000 |

CWCB Project Manager: Megan Holcomb

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(cc)**

Applicant & Grantee: Florida Consolidated Ditch Company

Water Activity Name: Florida Canal Diversion Structure Rehabilitation Project: Phase 1

Water Activity Purpose: Environmental, Recreational, and Agricultural Implementation

County: La Plata

Drainage Basin: Southwest

Water Source: Florida River

Amount Requested: \$45,000 Southwest Basin Account
\$54,000 Statewide Account
\$99,000 Total Grant Request

Matching Funds: Basin Account Match = \$45,000

- 90% of statewide request (meets 10% min)

Applicant Match (cash & in-kind) = \$154,000

- 258% of the statewide request (meets 10% min)

Total Match (Basin & Applicant) = \$199,000

- 369% of the statewide request (meets 50% min)
- 77% of the total project cost of \$253,000

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| Staff Recommendation: |
| Staff recommends approval of up to \$45,000 from the Southwest Basin Account and \$54,000 from the Statewide Account to fund: Florida Canal Diversion Structure Rehabilitation Project: Phase 1. |

Water Activity Summary: WSRF grant funds, if approved, will contribute to a multi-purpose project to provide preliminary design concepts and a feasibility study for repairs to the Florida Canal Diversion Structure (“Diversion Structure”). The Diversion Structure delivers pre-compact irrigation water rights to the Florida Canal headgate for irrigation of 6,900 acres on the Florida Mesa. The current Diversion Structure is a low head dam that impedes upstream fish and aquatic organism passage. The WSRF funding will be used for Phase 1 of the project including environmental and cultural permitting needs, easement and right-of-way acquisition, and a loan feasibility study for future funding of the project.

The Florida Canal provides water to Pastorius Reservoir which is a State Wildlife Area, as well as irrigation water to land on which alfalfa, spring wheat, orchard, small grains, and grass pasture are grown. The area of habitat improvement is approximately 48.8 acres of the Florida River, from Lemon Dam downstream to the Florida Farmers Ditch Diversion Structure. Objectives are to:

1. Provide more permanent long-term repair to the Florida Canal Diversion Structure.
2. Protect pre-compact water rights, firm agricultural irrigation supply, provide water supply to Pastorius Reservoir (a State Wildlife Area), and provide drought resistance to the Florida Mesa.
3. Promote safety, fish passage and connectivity to a reach of the Florida River that is currently disconnected.

Discussion: As described in the Southwest Roundtable (SWBRT) chair's recommendation letter, this project was supported and recommended for approval on January 10, 2018. The project aligns with numerous goals and objectives in the SW Basin Implementation Plan, SWSI 2010 and Colorado's Water Plan as identified in the application. The project is a specific and unique multi-purpose project (new IPP) that will address multiple consumptive and non-consumptive needs on the Florida Mesa and within the Florida River watershed, and will protect pre-compact water rights entitlement by rehabilitating the Diversion Structure.

Non-consumptive environmental and recreational needs will be addressed through restoration of the Diversion Structure. The project will replace the existing low head dam with a structure that is safer for river users. The Florida River is an important fishery in the Southwest Basin as the CWCB holds two In-Stream Flow water rights that extend from below Lemon Dam downstream to the Confluence with the Animas River. The project will provide connectivity for a reach of The Florida River that is approximately 11.5 miles by providing a fish passage as part of the project design and implementation.

Multiple entities and stakeholders will be involved in collaboration efforts and technical support early on and throughout the Project including The Nature Conservancy, Trout Unlimited, Colorado Parks and Wildlife, the Florida Water Conservancy District, and the Florida Consolidated Ditch Company. The FCDC is planning on taking out a CWCB loan to fund the project.

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

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

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

Funding Summary / Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-Kind</u> | <u>Total</u> |
|--|--------------------|-----------------------|---------------------|
| Southwestern Water Conservation District | \$75,000 | \$0 | \$179,717 |
| The Nature Conservancy | \$10,000 | \$0 | \$10,000 |
| Florida Water Conservancy District | \$10,000 | \$0 | \$10,000 |
| Florida Consolidated Ditch Company | \$19,000 | \$40,000 | \$59,000 |
| Subtotal | \$114,000 | \$40,000 | \$154,000 |
| WSRF Southwest Basin Account | \$45,000 | n/a | \$45,000 |
| WSRF Statewide Account | \$54,000 | n/a | \$54,000 |
| Totals | \$213,000 | \$40,000 | \$253,000 |

CWCB Project Manager: Megan Holcomb

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 21-22, 2018
Agenda Item 25(dd)**

Applicant & Grantee: Animas Air Park Property Owners Association
Water Activity Name: Animas Air Park Water Distribution System: Phase 2
Water Activity Purpose: Municipal/Industrial Implementation
County: La Plata
Drainage Basin: Animas
Water Source: Animas River
Amount Requested: 43,000 Southwest Basin Account
Matching Funds: Applicant Match (cash & in-kind) = \$66,000

- 153% of the Basin Account request (meets 25% min)
- 61% of the total project cost of \$109,000

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| Staff Recommendation: |
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| Staff recommends approval of up to \$43,000 from the Southwest Basin Account to help fund the project titled: Animas Air Park Water Distribution System: Phase 2. |
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Water Activity Summary: WSRF grant funds, if approved, will help Animas Air Park Property Owners Association (AAPPOA) construction a municipal water line to serve commercial/industrial and residential properties along North Skylane Drive. The design and construction of the distribution system was undertaken by AAPPOA in cooperation with the La Plata County, City of Durango and the property owners of the La Posta Road area.

This project phase includes 1335 feet of pipe with a tee and valve included for the next phase of extension. The size of line needed to serve the properties along Skylane Drive is 8". The City of Durango will pay for upsizing the line to 12" to have future capacity in the Air Park distribution system for transmission of their Animas-La Plata water from a future treatment plant at Basin Creek. The area served by this phase 2 includes two homes that currently depend on hauled water and 20 acres of commercial/industrial raw land adjacent to the runway at Animas Air Park. Best practices in land use planning indicate commercial and industrial development near this airport. If that is not accomplished, agricultural and vacant lands with valuable open space attributes are put at risk of development. Municipal water distribution is essential for the best land use practice at AAP.

Discussion: As described in the Southwest Basin Roundtable (SWBRT) chair's recommendation letter, this project was supported and recommended for approval by the roundtable on January 11, 2017. This project addresses SWBRT IPP #27-A and SWBRT Goal C: Meet Municipal and Industrial Needs. A unique feature of this project is that the water line will be upsized to allow future deliveries of Lake Nighthorse water to the City of Durango and the City has committee funding to pay for the expanded line capacity. This project assists in satisfying Colorado's Water Plan Critical Goals and Actions as identified in *Chapter 10.3, A. Supply-Demand Gaps* by pursuing balanced economic development.

Animas Air Park was constructed in the 1970's as a general aviation airport with fly-in fly-out residential development and commercial/light industrial sites. AAPPOA was incorporated in 1989 to provide development and maintenance services for the airport and road infrastructure. The covenants, architectural review, and member dues structure has evolved to serve a mixed use community. Water wells on Animas Mesa are generally low-yielding, with many owners hauling water. Fire protection is limited by the incomplete water distribution system. In 2013, AAPPOA expanded its infrastructure responsibility to include water and fiber communications. Phase 1 of the water distribution system was designed and completed in 2015, with cost share assistance from Colorado Division of Aeronautics. AAPPOA continues to plan and secure funding for a complete water distribution system to serve its members, stimulate economic development, and cooperate with other agencies in La Plata County.

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

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

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

Funding Summary / Matching Funds:

| <u>Funding Source</u> | <u>Cash</u> | <u>In-Kind</u> | <u>Total</u> |
|------------------------------|--------------------|-----------------------|---------------------|
| Animas Air Park POA | \$48,000 | \$0 | \$48,000 |
| City of Durango | \$18,000 | \$0 | \$18,000 |
| Sub-total | \$66,000 | \$0 | \$66,000 |
| WSRF Southwest Basin Account | \$43,000 | n/a | \$43,000 |
| Totals | \$109,000 | \$0 | \$109,000 |

CWCB Project Manager: Megan Holcomb