



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 Planning Section

DATE: March 5, 2015

AGENDA ITEM: 17 (a-o) WSRA Grant Requests & 17 (p) Request for Change in Fiscal Agent

Staff Recommendation - Action Items: WSRA Grant Requests & Request for Change in Fiscal Agent

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

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

Background:

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

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

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

- 1) Applications are reviewed for completeness based on the information requirements, which are primarily outlined in Part 2 of the Criteria and Guidelines (C&G).



- 2) Applications are reviewed to verify that the water activity meets the eligibility requirements in Section 39-29-108 (III) C.R.S. (C&G, Part 2) and the threshold criteria, which are based on the requirements of Section 39-29-108 (III) C.R.S., and two sections of the Water for the 21st Century Act (House Bill 1177); Section 37-75-102 and Section 37-75-104(2)(c) (C&G, Part 3). Staff also verifies that the applicant was an eligible entity to receive funding (C&G, Part 2).
- 3) Staff then prepares the Water Activity Summary Sheet which documents the outcome of the review process and contains staff's recommendations.

Water Supply Reserve Account Balance Summary and Project Status Report:

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

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



Water Supply Reserve Account Applications for Consideration at the CWCB March 2015 Board Meeting														
Agenda Item	Basin	Applicant	Name of Water Activity	Basin(s) Account Request	Statewide Account Request	Total Request	Applicant's Cash Match	Applicant's In-Kind Match	Applicant's Total Match	Total Match (Basin Account & Applicant's Match)	Total Project or Study Costs	Staff Recommendations	Notes	PM
17(a)	Metro	Colorado Division of Water Resources	Data Loggers & Telemetry Installation	\$50,000	\$156,432	\$309,648	\$0	\$38,200	\$38,200	\$191,416	\$347,848	Staff recommends approval of \$50,000 from the Metro Account, \$103,216 from the South Platte Basin Account, and \$153,432 from the Statewide Account		Brent Newman
	South Platte			\$103,216										
17(b)	Metro	Elbert County	Elbert County Rural Water Supply Study	\$40,000	\$40,000	\$120,000	\$20,000	\$0.00	\$20,000	\$100,000	\$140,000	Staff recommends approval of \$40,000 from the Metro Account, \$40,000 from the South Platte Basin Account, and \$120,000 from the Statewide Account		Craig Godbout
	South Platte			\$40,000										
17(c)	Arkansas	Pike's Peak Regional Water Authority	Preliminary Engineering Report: Area 3 Regional Water Supply Infrastructure	\$26,000	\$100,000	\$126,000	\$41,000	\$15,000	\$56,000	\$82,000	\$182,000	Staff recommends conditional approval of \$26,000 from the Arkansas Basin Account, and \$100,000 from the Statewide Account		Brent Newman
17(d)	Arkansas	Lower Arkansas Valley Water Conservancy District	Phase II, Repurposing of Water Supply for Multiple Benefical Use	\$25,000	\$275,000	\$300,000	\$1,194,000	\$0	\$1,194,000	\$1,219,000	\$1,494,000	Staff recommends conditional approval of \$25,000 from the Arkansas Basin Account, and \$275,000 from the Statewide Account	Loan/Grant (Future)	Anna Mauss
17(e)	Arkansas	Lower Arkansas Valley Water Conservancy District	Arkansas Basin Watershed Collaborative	\$25,000	\$240,000	\$265,000	\$146,000	\$410,000	\$556,000	\$581,000	\$821,000	Staff recommends approval of \$25,000 from the Arkansas Basin Account, and \$240,000 from the Statewide Account		Chris Sturm
17(f)	Colorado	Summit County	Swan River Stream Restoration	\$48,750	\$926,250	\$975,000	\$970,000	\$31,750	\$1,001,750	\$1,050,500	\$1,976,750	Staff recommends approval of \$48,750 from the Colorado Basin Account, and \$975,000 from the Statewide Account		Chris Sturm
17(g)	Gunnison	Trout Unlimited	Elk Home Ditch Improvement & Steuben Creek Flow Restoration	\$60,000	\$250,000	\$310,000	\$182,300	\$61,200	\$243,500	\$303,500	\$553,500	Staff recommends approval of \$60,000 from the Gunnison Basin Account, and \$250,000 from the Statewide Account		Derek Johnson
17(h)	Gunnison	North Farmers Ditch	North Farmers Ditch Slope Repair & Stabilization	\$35,000	\$0	\$35,000	\$45,315	\$0	\$45,315	\$80,315	\$80,315	Staff recommends approval of \$35,000 from the Gunnison Basin Account		Brent Newman
17(i)	Metro	Metropolitan State University	Water Diplomats: University Students & the State Water Plan	\$4,575	\$24,300	\$28,875	\$0	\$52,750	\$52,750	\$57,325	\$81,625	Staff recommends approval of \$4,575 from the Metro Account, and \$24,300 from the Statewide Account		Kate McIntire
17(j)	Metro	Plum Valley Heights Sub-District of the Roxborough Water and Sanitation District	North West Douglas County Rural Water Project	\$50,000	\$950,000	\$1,000,000	\$13,960,316	\$0	\$13,960,316	\$14,010,316	\$14,960,316	Staff recommends conditional approval of \$50,000 from the Metro Account, and \$950,000 from the Statewide Account	Loan/Grant (Future)	Jonathan Hernandez
17(k)	Rio Grande	Rio Grande Headwaters Land Trust	Campbell-Ridden Property & Dugan Ranch Conservation Easement Projects	\$20,000	\$130,000	\$150,000	\$485,000	\$410,000	\$895,000	\$915,000	\$1,045,000	Staff recommends approval of \$20,000 from the Rio Grande Basin Account, and \$130,000 from the Statewide Account		Craig Godbout
17(l)	South Platte	Central Colorado Water Conservancy District	Water Information Dashboards for Improved Efficiency, South Platte Basin and Statewide	\$20,000	\$200,000	\$220,000	\$35,000	\$77,200	\$112,200	\$132,200	\$332,200	Staff recommends approval of \$20,000 from the South Platte Basin Account, and \$200,000 from the Statewide Account		Andy Moore
17(m)	South Platte	Open Water Foundation	Agricultural Land/Water Buffer Feasibility Analysis	\$20,000	\$84,954	\$104,954	\$30,000	\$0	\$30,000	\$50,000	\$134,954	Staff recommends approval of \$20,000 from the South Platte Basin Account, and \$84,954 from the Statewide Account		Brent Newman
17(n)	South Platte	Big Thompson Conservation District	Little Thompson Watershed Needs Assessment	\$60,000	\$0	\$60,000	\$0	\$8,000	\$8,000	\$68,000	\$68,000	Staff recommends approval of \$60,000 from the South Platte Basin Account		Brent Newman
17(o)	Yampa	Upper Yampa Water Conservancy District	Upper Yampa Water Conservancy District Master Plan Modeling	\$25,000	\$0	\$25,000	\$25,000	\$0	\$25,000	\$50,000	\$50,000	Staff recommends approval of \$25,000 from the Yampa/White/Green Basin Account		Craig Godbout
				\$652,541	\$3,376,936	\$4,029,477								
Change of Fiscal Agent														
	Basin	Current Fiscal Agent	Name of Water Activity	Proposed Fiscal Agent										
17(p)	Colorado	Riverside Ranch Company, LLLP	Riverside Ranch Irrigation Diversion & River Restoration Project	Trout Unlimited								Staff recommends approval of change in fiscal agent		

Basin	Basin Account Requests	Statewide Account Requests	Total	Current Basin Account Balances	Remaining Basin Account Balances (if all requests approved)	Current Statewide Account Balance	Remaining Statewide Account Balance (if all requests approved)
Arkansas Basin	\$76,000	\$615,000	\$691,000	\$316,963	\$240,963		
Colorado Basin	\$48,750	\$926,250	\$975,000	\$540,655	\$491,905		
Gunnison Basin	\$95,000	\$250,000	\$345,000	\$550,278	\$455,278		
Metro Basin	\$144,575	\$1,072,516	\$1,217,091	\$217,386	\$72,811		
North Platte	\$0	\$0	\$0	\$1,293,474	\$1,293,474	\$3,709,399	\$332,463
Rio Grande	\$20,000	\$130,000	\$150,000	\$266,630	\$246,630		
Southwest	\$0	\$0	\$0	\$775,916	\$775,916		
South Platte	\$243,216	\$383,170	\$626,386	\$501,175	\$257,959		
Yampa/White/Green	\$25,000	\$0	\$25,000	\$913,352	\$888,352		
Water Supply Reserve Account Total Requests	\$652,541	\$3,376,936	\$4,029,477	\$5,375,829	\$4,723,288		

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

Updated 03/02/15

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	\$7,000,000	\$4,480,000	\$2,520,000
Interest	N/A	\$2,857,935	\$1,829,078	\$1,028,856
2014/2015 Interest	N/A	\$80,374	\$80,374	\$0
TOTAL	\$74,775,000	\$68,962,672	\$44,756,794	\$24,205,877

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

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

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

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

Fund Distribution					
Basin	Approved Basin Grants	Total Basin Funds	Basin Account Balance	Approved State Grants	Statewide Account Balance
Arkansas	\$2,372,579	\$2,689,542	\$316,963	\$6,498,535	
Colorado	\$2,148,887	\$2,689,542	\$540,655	\$4,238,010	
Southwest	\$1,913,626	\$2,689,542	\$775,916	\$5,270,859	
Gunnison	\$2,139,264	\$2,689,542	\$550,278	\$3,787,791	
Metro	\$2,472,156	\$2,689,542	\$217,386	\$4,640,768	
North Platte	\$1,396,068	\$2,689,542	\$1,293,474	\$408,078	
Rio Grande	\$2,422,912	\$2,689,542	\$266,630	\$9,930,323	
South Platte	\$2,188,367	\$2,689,542	\$501,175	\$5,660,968	
Yampa/White	\$1,776,190	\$2,689,542	\$913,352	\$612,063	
TOTAL	\$18,830,049	\$24,205,877	\$5,375,828	\$41,047,395	\$3,709,399
TOTAL APPROVED GRANTS					\$59,877,444

Note: Only includes grants approved by CWCB

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
March 18-19, 2015
Agenda Item 17(a)

Applicant & Fiscal Agent: Colorado Division of Water Resources

Water Activity Name: Data Logger/Telemetry Installation Project, South Platte River Basin

Water Activity Purpose: Structural Project

County: Throughout South Platte Basin

Drainage Basin: South Platte

Water Source: South Platte River

Amount Requested/Source of Funds: \$50,000 Metro Account
 \$103,216 South Platte Basin Account
 \$156,432 Statewide Account
 \$309,648 Total grant request

Matching Funds: Basin Account Match (\$153,216) = 49.5% of total grant request;
 Basin Account and Applicant Match (\$191,416) = 61.8% of total grant request;
 Basin Account and Applicant Match = 49% of total project costs (\$347,848)
 (refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:
Staff recommends approval of up to \$50,000 from the Metro Basin Account, \$103,216 from the South Platte Basin Account, and \$156,432 from the Statewide Account to help fund the project titled: Data Logger/Telemetry Installation Project, South Platte River Basin.

Water Activity Summary:

WSRA funds will be expended for the installation of Sutron Stage Discharge Recorders (SDR) on 112 measuring structures and telemetry on 67 measurement structures within the South Platte Basin, specifically within Districts 1, 2, 3, 4, 7, 9, and 64. In total, 152 existing measurement structures will be improved by one or both of these installations. This project is a follow-up to other South Platte roundtable funded installation of data loggers and cellular telemetry. Equipment will be installed in coordination with local water users. Data will be available for viewing on the DWR website for a cellular service fee.

Discussion:

These installations will allow for continuous water flow information for water users and administrators, leading to more efficient use of staff resources. Ditch users and water commissioners will benefit from the real-time accounting, leading to more efficient and accurate administration. This project provides more input to ongoing State data collection efforts. The CWCB has previously approved a South Platte Basin Account grant request of \$88,958 in March 2013 for similar efforts in the South Platte River Basin which have been completed.

Issues/Additional Needs: None identified.

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

Tier 1-3 Evaluation Criteria:

This project has undergone review and evaluation per the Supplemental Scoring Matrix and staff has determined that this request satisfies the Evaluation Criteria. Further analysis of the project, and how the project will meet Tiered Evaluation Criteria, is provided by the applicant in the WSRA Application.

Funding Summary/Matching Funds:

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
WSRA Metro Account	\$50,000	n/a	\$50,000
WSRA South Platte Basin Account	\$103,216	n/a	\$103,216
WSRA Statewide Account	\$156,432	n/a	\$156,432
DWR & Northern Water	<u>\$0</u>	<u>\$38,200</u>	<u>\$38,200</u>
Total Project Costs	\$309,648	\$38,200	\$347,848

In-kind services from DWR and Northern Water staff for equipment installation are estimated to be \$27,000 on telemetry sites and \$11,200 on SDR installations. Water users who will benefit from this equipment are estimated to contribute up to \$40,000 on improvements to structures and vandal proofing the equipment.

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

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

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

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

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
March 18-19, 2015
Agenda Item 17(b)

Applicant & Fiscal Agent: Board of County Commissioners, Elbert County

Water Activity Name: Elbert County Rural Water Supply Study

Water Activity Purpose: Needs Assessment/ Water Supply Study

County: Elbert

River Basin: South Platte

Water Source: To be determined

Amount Requested/Source of Funds: \$40,000 Metro Account
 \$40,000 South Platte Basin Account
 \$40,000 Statewide Account
 \$120,000 Total grant request

Matching Funds: Basin Account Match (\$80,000) = 66.6% of total grant request
 Basin Account & Applicant Match (\$100,000) = 83% of total grant request
 Applicant Match (\$20,000) = 14% of total study costs (\$140,000)
 (refer to *Funding Summary/Matching Funds*)

Staff Recommendation:
Staff recommends approval of up to \$40,000 from the Metro Account; \$40,000 from the South Platte Basin Account; and \$40,000 from the Statewide Account to help complete the study titled: Elbert County Rural Water Supply Study.

Water Activity Summary: Elbert County relies heavily on nonrenewable groundwater from the Denver Basin aquifers for water supply. Population growth in the county has placed increasing demands on groundwater resources, and future groundwater withdrawals are expected to increase as the population continues to grow. The proximity of Elbert County to the major urban areas of the Front Range creates challenges as to demands, but also raises the prospect of potential opportunities for collaboration in regional projects. Elbert County government is committed to developing public policy to ensure adequate water supply for Elbert County's future agricultural, municipal and industrial needs. This requires identification of options, goals, opportunities and measurable outcomes for policy development relating to this nonrenewable water resource. A comprehensive review of current rural Elbert County water needs is required to evaluate the continued use of Denver Basin groundwater through 2050, and the associated institutional and financial challenges. Grant funding will be used in 2014 and 2015 to review recent Denver basin groundwater studies and water level data to assess the sustainability of current and future use of Denver Basin groundwater by rural, suburban, metropolitan and industrial uses, and by water districts.

Study Objectives include:

1. Identify supplies and quantify long-term projected water demand for Elbert County through the 2050 planning horizon under varying projected growth scenarios.
2. Review recent Denver Basin groundwater studies and water level data for Elbert County.
3. Assess the sustainability of current and future use of Denver Basin groundwater by Elbert County's rural residents, water districts and municipalities
4. Identify water resource options, and opportunities to optimize existing and future water supply infrastructure including renewable water, reuse & water efficiency alternatives.
5. Provide comparative cost-benefit analysis for water resource alternatives and identify potential funding scenarios.
6. Identify goals, opportunities, challenges and measurable outcomes for decision makers' policy development, and time-critical thresholds for preserving options for existing and new water supply.

Discussion:

In a related effort, Elbert County has received \$96,500 in Statewide WSRA grant funding, \$12,000 from the Metro Account, and \$6,000 from the South Platte Basin Account approved by CWCB during the September 2014 meeting to support a three-year groundwater monitoring program to be performed by the USGS. This effort will help info the current proposal.

Issues/Additional Needs:

No additional issues or needs were identified.

Threshold and Evaluation Criteria:

The application meets all four Threshold Criteria.

Tier 1-3 Evaluation Criteria:

Staff has reviewed and evaluated the applicant's response to the Statewide Account Evaluation Criteria and has determined that the minimum requirements have been meet. Please refer to WSRA Application for applicant's detailed response.

Funding Overview/Matching Funds:

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
WSRA Statewide Account	\$40,000	n/a	\$40,000
WSRA Metro Account	\$40,000	n/a	\$40,000
WSRA South Platte Basin Account	\$40,000	n/a	\$40,000
Elbert County	<u>\$20,000</u>	<u>\$0</u>	<u>\$20,000</u>
Total	\$140,000	\$0	\$140,000

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

Reporting and Final Deliverable: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the scope of work including a description of any major issues that have occurred and any corrective action taken to address these issues. At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

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

The project will conclude with preferred locations being selected for storage and conveyance of supply. Preliminary design and engineering will be complete, with the consideration of a treatment facility when necessary.

Issues/Additional Needs:

In the basin roundtable letter of approval, the grant approval is made conditional on roundtable approval of a presentation of the findings of the Regional Infrastructure Study that preceded this application. The roundtable did approve the presentation, and agreed to pass along this application to the CWCB as recommended for approval.

Threshold and Evaluation Criteria:

The application meets all four Threshold Criteria

Tier 1-3 Evaluation Criteria:

This project has undergone review and evaluation per the Supplemental Scoring Matrix. Further analysis of the project, and how the project will meet Tiered Evaluation Criteria, is provided by the applicant in the WSRA Application.

Funding Summary/Matching Funds:

Cash funds and in-kind services will be provided by study participants. Cash fund contributions total \$41,000 and in-kind services total \$15,000. Matching funds by participant are summarized in the following table.

PROJECT FUNDING SUMMARY	Dollars	In-Kind	Total Support
Cherokee Metro District	\$ 5,000	\$ 3,500	\$ 8,500
Donala Water & Sanitation District	\$ 10,000	\$ 3,000	\$ 13,000
City of Fountain	\$ 1,000	\$ 500	\$ 1,500
Town of Monument	\$ 10,000	\$ 3,000	\$ 13,000
Palmer Lake	\$ 5,000	\$ 1,000	\$ 6,000
Triview Metro District		\$ 1,000	\$ 1,000
Woodmoor Water & Sanitation District	\$ 10,000	\$ 3,000	\$ 13,000
WSRA Basin Funds	\$ 26,000		\$ 26,000
WSRA Statewide Funds	\$ 100,000		\$ 100,000
	\$ 167,000	\$ 15,000	\$ 182,000

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

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial

completion of the tasks identified in the scope of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

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

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

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
March 18-19, 2015
Agenda Item 17(d)

Applicant: Lower Arkansas Valley Water Conservancy District

Fiscal Agent: Lower Arkansas Valley Water Enterprise Fund

Water Activity Name: Phase II, Repurposing of Water Supply for Multiple Beneficial Use

Water Activity Purpose: Multipurpose Water Rights Purchase/Implementation

County: Bent, Crowley, Otero, Prowers, Pueblo

River Basin: Arkansas

Water Source: Arkansas River

Amount Requested/Source of Funds: \$25,000 Arkansas Basin Account
\$275,000 Statewide Account
\$300,000 Total grant request

Matching Funds: Basin Account Match (\$25,000) = 8.3% of total grant request
Basin Account & Applicant Match (\$1,219,000) = 406% of total grant request
Applicant Match (\$1,194,000) = 80% of Phase II total project costs (\$1,494,000)
(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:
Staff recommends conditional approval (refer to <i>Issues/Additional Need</i> section below) of up to \$25,000 from the Arkansas Basin Account, and \$275,000 from the Statewide Account to help fund the project titled: Phase II, Repurposing of Water Supply for Multiple Beneficial Use

Water Activity Summary: This water activity is a purchase of a total of 558 paired Colorado Canal and Lake Henry/Lake Meredith water shares. The shares are decreed for any beneficial use and represent 442 acre/feet per year in average historic consumptive use. The purchase has been divided into two phases. The first phase is the purchase of 408.6 paired shares; 126.6 of Colorado Canal/Lake Henry shares, and 282 of Colorado Canal/Lake Meredith shares. Phase I is being preliminarily funded with a bridge loan, but long-term funding is being sought from the Colorado Water Conservation Board Water Project Loan Program, making this project a grant/loan combination.

Phase II, is the purchase of 149.4 paired Colorado Canal/Lake Henry shares. The shares are currently being used for industrial purposes by Ordway Cattle Feeders, LLC. The purchase of these shares frees them up for a variety of beneficial uses, including recreation and environment, agricultural, and municipal/industrial use. These shares represent 152.39 acre/feet per year of average historical consumptive use.

The water rights being purchased in both phases will be stored in Lake Henry and Lake Meredith, providing environmental and recreational use. When needed, they will benefit agriculture by being used for augmentation replacement for Rule 10 and Rule 14 plans, as well as for replacement water for lease/fallowing projects. After the Arkansas Valley Conduit is complete, they can be used when water is short for the conduit, benefitting municipal/industrial users.

Discussion: The CWCB loan request will be presented at the May 2015 CWCB meeting.

Issues/Additional Needs: Additional funding sources include an anticipated loan from CWCB to finance Phase I, therefore staff recommends **conditional** approval based upon applicant successfully securing the aforementioned loan to fully fund all phases of this project.

Threshold and Evaluation Criteria:

The application meets all four Threshold Criteria

Tier 1-3 Evaluation Criteria:

The application has undergone detailed review and evaluation subject to the Supplemental Scoring Matrix and satisfies the Evaluation Criteria.

Tier 1: Promoting Collaboration/Cooperation and Meeting Water Management Goals and Identified Water Needs:

- a) Because this water is decreed for any beneficial use, and will be available for lease to multiple users, it addresses multiple needs, consumptive and non-consumptive needs, and multiple interests. It restores the possibility of multiple uses to water that was being used by an industrial user.
- b) This project addresses an environmental/recreational gap, in that water will be stored in Lake Henry until needed elsewhere, increasing water levels in a chronically low reservoir that used to be enjoyed by wildlife and recreational users alike. These uses may be restored, although an exact measurement is not possible. This need, in general, was identified in the Arkansas BIP.
- c) This project will address the “double” agricultural gap caused by an increased need for augmentation and the double-counting of municipal return flows as current supply for Ag and future supply for Ag and M/I.
- d) The water will also be available for municipal/industrial uses, trades, and exchanges, adding flexibility and stability to the region’s water supply system, especially after the Arkansas Valley Conduit is constructed as water holds a senior exchange right.
- e) A major use of the water will be for augmentation required by Rule 10 and Rule 14 Plans, addressing critical compact issues, and meeting this growing need. This intra-basin need is articulated in the BIP.
- f) Another future use of the water will be as replacement of return flows for lease/fallowing projects.

Tier 2: Facilitating Water Activity Implementation:

- a) Grant funding assures that this water activity may proceed in a timely manner. The purchase and broadening of use of the shares, while limiting the up-front costs, ensures its viability and affordability to future users. Grant funding constitutes less than 8% of the combined phases I and II, but assists the up-front funding required. The applicant will be funding over 79% of this grant project (phase II), and over 90% of the combined project, through matching and loan funds.

Tier 3: The Water Activity Addresses Other Issues of Statewide Value and Maximized Benefits:

- a) This activity does help sustain agriculture, by providing a means for augmentation as required by Rule 10 and Rule 14 Plans, at the same time addressing a problem related to compact compliance.
- b) It also helps meet environmental and recreational needs.
- c) This activity can assist in the implementation of CWCB’s Lease/Fallowing Pilot Project program, providing replacement water for fallowed lands.
- d) The water rights purchase also keeps the use of these shares in the Arkansas Basin, available to Agriculture, preventing Ag dry-up, meeting statewide and basin values and goals.

Funding Summary/Matching Funds:

	Phase I	Phase II	
Lower Ark Valley WCD	\$48,000	\$1,194,000	
Basin Grant Funds		\$25,000	
Statewide Grant Funds		\$275,000	
CWCB Loan	\$2,535,000		
Total	\$2,583,000	\$1,494,000	\$4,0770,000

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

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

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

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

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
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Applicant & Fiscal Agent: Lower Arkansas Valley Water Conservancy District

Water Activity Name: Arkansas Basin Watershed Collaborative

Water Activity Purpose: Consumptive & Nonconsumptive

County: Basin Wide

River Basin: Arkansas

Water Source: Arkansas River Basin

Amount Requested/Source of Funds: \$25,000 Arkansas Basin Account
\$240,000 Statewide Account
\$265,000 Total grant request

Matching Funds: Basin Account Match (\$25,000) = 19.4% of total grant request
Basin Account and Applicant Match (\$581,000) = 219% of total grant request
Basin Account and Applicant Match = 71% of total project costs (\$821,000)
(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:
Staff recommends approval of up to \$25,000 from the Arkansas Basin Account, and \$240,000 from the Statewide Account to help fund the project titled: Arkansas Basin Watershed Collaborative

Water Activity Summary: This project is intended to stand up a collaborative organization (the Arkansas River Watershed Collaborative, or ARWC) as a subcommittee to the Arkansas River Basin Roundtable in order to begin addressing watershed health issues across the basin in a strategic and tactical fashion. Collaborative conservation has been shown to be an effective approach for addressing complex, cross-jurisdictional issues, such as improving forest health to reduce wildfire impacts on water supplies, or improving hydrologic function to address both consumptive and recreational/environmental uses of water. By working together, stakeholders can prioritize effective strategies and projects, leverage resources, and provide critical information to other decision-makers through mechanisms like decision support systems. The ARWC will also strive to create new and support existing sub-basin watershed organizations, such as the Purgatoire Watershed Partnership and the Headwaters of the Arkansas watershed group, to increase on-the-ground endeavors and facilitate communication between a wide array of stakeholders within the Basin. The ARWC will provide a strategic framework and public engagement to further watershed-health outcomes as described in the Arkansas Basin Implementation Plan. Finally, to demonstrate that this is more than a planning exercise, the ARWC will engage in several collaboratively driven on-the-ground ambassador level projects in the Arkansas Basin in 2015 and beyond.

The following is a summary of objectives for the term of the grant.

- Develop the subcommittee (ARWC) of the Arkansas Basin Roundtable that functions as a collaborative organization focused on basin-wide watershed health. (0-3 months)

- Engage a wide variety of stakeholders in the development of a strategic Watershed Health Implementation Plan as outlined in the Basin Implementation Plan. (3-12 months)
- Create a structure to support the development of sub-basin collaborative organizations by way of technical, financial and/or capacity-building resources to address local watershed health issues and risks. (3-6 months).
- Develop or engage one or more sub-basin organizations that will participate in the Arkansas River Watershed Collaborative as a member of the leadership team or Board. (End of year one)
- Engage in public outreach about the basin and watershed issues, including a student-oriented component with schools in the Purgatoire Watershed. (0 months – Year 1)
- Initiate work on the following on-the-ground projects by the end of year 1:
 - Purgatoire Watershed Invasive Species Removal and Rangeland Management Improvements.
 - Tennessee Creek Fuels Reduction Project: Turquoise Lake
 - East Peak Fire Rehab
- Work with partners to plan and prepare implementable projects for 2016 and beyond

Discussion: No further discussion is required.

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

Threshold and Evaluation Criteria:

The application meets all four Threshold Criteria

Tier 1-3 Evaluation Criteria:

The application has undergone detailed review and evaluation subject to the Supplemental Scoring Matrix and satisfies the Evaluation Criteria. Refer to application for applicant's detailed response to Evaluation Criteria.

Funding Summary/Matching Funds:

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
WSRA Arkansas Basin Account	\$25,000	n/a	\$25,000
WSRA Statewide Account	\$240,000	n/a	\$240,000
LAVWCD	\$10,000	\$0	\$10,000
Huerfano Water Conservancy District	\$6,000	\$0	\$6,000
Huerfano County	\$4,000	\$0	\$4,000
Colorado Springs Utilities	\$12,000	\$0	\$12,000
Aurora Water	\$12,000	\$0	\$12,000
USBOR	\$10,000	\$0	\$10,000
Xcel Energy	\$5,000	\$0	\$5,000
City of Pueblo	\$5,000	\$0	\$5,000
Southeast Conservancy Water Conservancy District	\$10,000	\$0	\$10,000
National Forest Foundation	\$20,000	\$0	\$20,000
Purgatoire Watershed Partnership	\$1,000	\$0	\$1,000
The Nature Conservancy	\$3,000	\$0	\$3,000
Colorado State Forest Service	<u>\$10,000</u>	<u>\$0</u>	<u>\$10,000</u>
Total	\$821,000	\$0	\$821,000

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

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

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

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

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
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Applicant & Fiscal Agent: Summit County

Water Activity Name: Swan River Stream Restoration

Water Activity Purpose: Nonconsumptive

County: Summit

Drainage Basin: Colorado

Water Source: Swan River

Amount Requested/Source of Funds:	\$48,750	Arkansas Basin Account
	<u>\$926,250</u>	Statewide Account
	\$975,000	Total grant request

Matching Funds: Basin Account Match (\$48,750) = 5% of total grant request;
Basin Account and Applicant Match (\$1,050,500) = 107.7% of total grant request;
Basin Account and Applicant Match = 53% of total project costs (\$1,976,750)
(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:

Staff recommends approval of up to \$48,750 from the Colorado Basin Account, and \$926,250 from the Statewide Account to help fund the study titled: Swan River Stream Restoration.

Water Activity Summary: WSRA funds will expended to finance stream and floodplain restoration, wetlands creation, and revegetation in a heavily impacted 3,500 linear foot reach of the Swan River along Tiger Road in the Swan River Drainage approximately 11 miles northeast of Breckenridge on land jointly owned by Summit County (County) and the Town of Breckenridge (Town). This project represents Phase 1 the Swan River Stream Restoration Project. An additional 8,700 linear feet of upstream restoration may occur in subsequent phases on privately owned land under easements managed by the United States Forest Service (USFS). The goal of this phase will be to restore approximately 3,500 feet of steam, and restore or preserve approximately 10.4 acres of habitat.

More specifically, WSRA funding would be used for: 1) final design and engineering oversight necessary to complete design/build stream restoration based upon the *Swan River Restoration Preliminary Design Plan Report (2013)*, funded in part by a previous WSRA grant and submitted in full to the CWCB in 2013; 2) securing materials for restoration work such as soil, soil amendments, rock, and native plants; 3) excavation and earthmoving; 4) in-stream habitat improvements; 5) planting native vegetation; and 6) wetlands creation.

The project area comprises a highly disturbed aquatic environment heavily impacted by historic mining activities that dredged the valley bottom, obliterating the channel of the Swan River. The active channel was pushed to the north against Tiger Road in a straight ditch where surface flows

disappear from mid-summer through the winter. The river corridor contains minimal riparian habitat and is virtually devoid of native vegetation, ecosystem functions, fisheries, or wildlife habitat values. Approximately 85-90% of the project area is barren cobble with minimal ecological, aesthetic or recreational appeal.

Project partners include: Blue River Watershed Group (BRWG), Town of Breckenridge, U.S. Forest Service (USFS), US Fish and Wildlife Service, Colorado Parks and Wildlife (CPW), Everist Materials, Trout Unlimited, Colorado Water Conservation Board, Friends of Dillon Ranger District, and others.

Discussion: The CWCB awarded the Blue River Watershed Group a grant in the amount of \$30,000 from the Colorado Basin Account for the study titled: *Swan River Restoration Preliminary Design Plan Report* in 2012. Staff finds that the current proposal is a worthy follow up to the previous efforts.

Issues/Additional Needs: Applicant to work with CWCB Staff to ensure that geomorphic monitoring conforms to CWCB Standard Operating Procedure for Topographic Survey of Stream Channels (http://cwcb.state.co.us/environment/watershed-protection-restoration/Documents/Survey_SOP_CWCB.pdf).

All proposed river channel work shall conform to the CWCB Rules and Regulations for Regulatory Floodplains in Colorado.

Due to the funding commitment of CWCB (if approved) and the scale of the project, staff requests that the applicant invite CWCB staff be included as member of the project team and invited to regular meetings.

Threshold and Evaluation Criteria:

The application meets all four Threshold Criteria

Tier 1-3 Evaluation Criteria:

This project has undergone review and evaluation per the Supplemental Scoring Matrix. Further analysis of the project, and how the project will meet Tiered Evaluation Criteria, is provided by the applicant in the WSRA Application.

Funding Summary/Matching Funds:

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
WSRA Colorado Basin Account	\$48,750	n/a	\$48,750
WSRA Statewide Account	\$926,250	n/a	\$926,250
Town of Breckenridge	\$30,000	\$0	\$30,000
USFS	\$60,000	\$0	\$60,000
USFWS	\$150,000	\$0	\$150,000
CPW	\$130,000	\$0	\$130,000
National Forest Foundation	\$100,000	\$0	\$100,000
Summit County	\$500,000	\$11,000	\$511,000
Blue River Watershed Group	\$0	\$5,250	\$5,250
Friends of Dillon Ranger District	\$0	\$10,500	\$10,500
Trout Unlimited	<u>\$0</u>	<u>\$5,000</u>	<u>\$5,000</u>
Total	\$1,945,000	\$31,750	\$1,976,750

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

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

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

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

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
March 18-19, 2015
Agenda Item 17(g)

Applicant & Fiscal Agent: Trout Unlimited

Water Activity Name: Elk Home Ditch Improvement, Steuben Creek Flow Restoration

Water Activity Purpose: Non-consumptive/Agricultural - Implementation

County: Gunnison

River Basin: Gunnison

Water Source: West Steuben Creek Watershed

Amount Requested/Source of Funds: \$60,000 Gunnison Basin Account
\$250,000 Statewide Account
\$310,000 Total grant request

Matching Funds: Basin Account Match (\$60,000) = 19.4% of total grant request
Basin Account & Applicant Match (\$303,500) = 97.9% of total grant request
Applicant Match (\$243,500) = 44% of total project costs (\$553,500)
(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:
Staff recommends approval of up to \$60,000 from the Gunnison Basin Account, and \$250,000 from the Statewide Account to help fund the project titled: Elk Home Ditch Improvement, Steuben Creek Flow Restoration

Water Activity Summary: This project is a collaborative effort between Trout Unlimited, the Pikes, Bechco, Colorado Parks and Wildlife, and the United States Forest Service. It is located approximately 13 miles north of Blue Mesa Reservoir on the southern boundary of the West Elk Wilderness near Gunnison, CO.

This project will convert the delivery mechanism of the Elk Home Ditch water right (7.25cfs, adjudication date of 1906) from an open, earthen ditch to 30-inch pipeline. By doing so, the project will improve water delivery to Rainbow Lake Reservoir and water yield to the Pikes and Bechco properties. The existing earthen ditch lies on US Forest Service property, and it has historically been difficult to operate and maintain. Converting the ditch to a pipeline will significantly reduce the burden of operating and maintaining the water right, thus improving access to the water right.

This project also involves the elimination of diversions at the Elk Home 2 Ditch (7.25 cfs, adjudication date of 1906), which lies on US Forest Service lands within the West Elk Wilderness Area. Engineering demonstrates that the improved yield from the Elk Home Ditch will more than offset for the loss of yield at the Elk Home 2 Ditch. By eliminating diversions at the Elk Home 2 Ditch, the project will eliminate the historic burden of operating and maintaining this ditch. Further, by eliminating diversions at the Elk Home 2 Ditch, the project will improve flow in Steuben Creek to benefit a critical population of Colorado River Cutthroat Trout. We will explore the possibility of protecting this water in the CWCB instream flow program.

In sum, when implemented this project will improve access to and reliability of pre-compact water rights, reduce the burden of operating and maintaining a ditch system on National Forest wilderness lands, address irrigation demands, and protect base flows for a population of genetically pure Colorado River Cutthroat Trout. Trout Unlimited and the water right owners have considered several options to improve this irrigation system while protecting flows in West Steuben Creek. Piping Elk Home ditch will vastly improve access to water for irrigation and storage, while at the same time eliminate the need for diversions at the Elk Home 2 headgate which is within the wilderness area and at the head of West Steuben Creek. This project will improve flows for a section of West Steuben Creek populated by Colorado Cutthroat Trout.

Discussion: No further discussion is required.

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

Threshold and Evaluation Criteria:

The application meets all four Threshold Criteria

Tier 1-3 Evaluation Criteria:

The application has undergone detailed review and evaluation subject to the Supplemental Scoring Matrix and satisfies the Evaluation Criteria.

Tier 1: Promoting Collaboration/Cooperation and Meeting Water Management Goals and Identified Water Needs

- a) This project is a collaborative effort between agricultural water users, Trout Unlimited, and the United States Forest Service, and Colorado Parks and Wildlife. Once implemented the project will address both consumptive values by improving access to water for irrigation and storage and non-consumptive values by protecting stream flows in the West Elk Wilderness for native Colorado Cutthroat Trout.
- b) This project is an example of how a conservation organization interested in protecting non-consumptive values can cooperate with traditional agricultural consumptive uses and implement a project that will provide long term protection for both agriculture environmental values.
- c) This project implements processes that will help meet future water demands by improving the access to irrigation water, improving water delivering for storage, and improving in-stream flow for native fish population.

Tier 2: Facilitating Water Activity Implementation

- a) This project is unlikely to be implemented without the use of WSRA account funds. It would not be feasible for Trout Unlimited or the water users to pay for this project out-of-pocket. However, the investment will improve access to and yield from the irrigation water right, which will help sustain agricultural operations, and protect environmental and recreational resources in the Gunnison National Forest and West Elk Wilderness which are highly valued by citizens of the Colorado.
- b) As described in the detailed budget in Exhibit A there has been significant investment in this project. Over the last three years Trout Unlimited has contributed \$44,500 for monitoring equipment, monitoring labor, engineering analysis, survey, and design which demonstrates a high level commitment to the completion of this project. The Upper

Gunnison River Water Conservation District has also invested in the monitoring effort by purchasing a data logger which was installed in Elk Home ditch. Colorado Parks and Wildlife as provided field survey and genetic analysis as well as listed this Cutthroat population as a Core Conservation Population. The United States Forest Service has committed staff time for assistance with instream flow appropriation and permitting as well as cash match for the project of \$2000.00

Tier 3: The Water Activity Addresses Other Issues of Statewide Value and Maximizes Benefits

- a) This project will help sustain agriculture & open space by improving infrastructure and delivery of irrigation water to historically irrigated lands. This project will also protect environmental flows in the West Elk Wilderness area for Colorado River Cutthroat Trout.
- b) This project will not affect compact administration related to this water right.
- c) This project will assist in the recovery of the Colorado River Cutthroat Trout which is a Colorado species of concern.

Funding Summary/Matching Funds:

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
WSRA Gunnison Basin Account	\$60,000	n/a	\$60,000
WSRA Statewide Account	\$250,000	n/a	\$250,000
Trout Unlimited	\$10,300	\$53,500	\$63,800
USFS	\$2,000	\$5,700	\$7,700
Bonneville Environmental	\$140,000	\$0	\$140,000
Pike/Stehwien	\$0	\$2,000	\$2,000
Colorado River Water Conservation District	\$15,000	\$0	\$15,000
Upper Gunnison River Water Conservancy District	<u>\$15,000</u>	<u>\$0</u>	<u>\$15,000</u>
Total	\$492,300	\$61,200	\$553,500

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

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

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

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

Threshold and Evaluation Criteria:

The application meets all four Threshold Criteria

Tier 1-3 Evaluation Criteria: n/a**Funding Summary/Matching Funds:**

The Gunnison roundtable has approved a request for \$35,000 from their basin account. Additional funds will be provided by the applicant, the Colorado River Water Conservation District, and the North Fork Water Conservancy District, as illustrated in the following table:

Task	Recipient Contribution	WSRA Gunnison Basin Funds	Colorado River District Grant	North Fork Water Conservancy District	Total
Task 1	\$11,000		\$2,600	\$2,500	\$16,100
Task 2		\$35,000	\$15,000		\$50,000
Task 3	\$14,215				\$14,215
Total	\$25,215	\$35,000	\$17,600	\$2,500	\$80,315

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

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

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

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

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
March 18-19, 2015
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Applicant & Fiscal Agent: Metropolitan State University

Water Activity Name: Water Diplomats: University Students & the State Water Plan

Water Activity Purpose: Educational

County: Statewide

River Basin: Metro

Water Source: n/a

Amount Requested/Source of Funds: \$4,575 Metro Account
 \$24,300 Statewide Account
 \$28,875 Total grant request

Matching Funds: Basin Account Match (\$4,575) = 15.8% of total grant request;
 Basin Account & Applicant Match (\$57,325) = 199% of total grant request;
 Basin Account & Applicant Match (\$57,325) = 70% of total project costs
 (\$81,625);
 (refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:
Staff recommends approval of up to \$4,575 from the Metro Account, and \$24,300 from the Statewide Account to help fund the project/study titled: Water Diplomats: University Students & the State Water Plan.

Water Activity Summary: This proposal is for a two-day conference in September of 2015 to be hosted on the campus of Metropolitan State University of Denver (MSU Denver) by the One World One Water Center for Urban Education and Stewardship (OWOW). OWOW staff and MSU Denver faculty will invite 30 students and faculty from other campuses to Denver for an in-depth study of the Colorado State Water Plan as well as an overview of water essentials and Colorado Water Law and educational activities. All participating students will apply for paid work-study hours in connection with the conference and the required community/campus outreach activities to follow the conference. The students will be required to return to their campuses where they will present an overview of the State Water Plan, and the specifics of the appropriate basin implementation plan, to at least one class and one outside organization in their community. They will submit final reports for their work-study which will include a description of the members of the public to whom they reported and a summary of questions and concerns from their communities and classmates.

Discussion: No additional discussion is required.

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

Threshold and Evaluation Criteria:

The application meets all four Threshold Criteria

Tier 1-3 Evaluation Criteria:

Staff has reviewed and evaluated the applicant's response to the Statewide Account Evaluation Criteria and has determined that the requirements have been adequately meet. Please refer to WSRA Application for applicant's detailed response.

Funding Summary/Matching Funds:

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
WSRA Metro Account	\$4,575	n/a	\$4,575
WSRA Statewide Account	\$24,300	n/a	\$24,300
MSU Faculty	<u>\$0</u>	<u>\$52,750</u>	<u>\$52,750</u>
Total	\$28,875	\$52,750	\$81,625

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

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

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

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

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
March 18-19, 2015
Agenda Item 17(j)

Applicant & Fiscal Agent: Plum Valley Heights Sub-District of the Roxborough Water and Sanitation District

Water Activity Name: North West Douglas County Rural Water Project

Water Activity Purpose: M&I/Implementation

County: Douglas

River Basin: South Platte

Water Source: City of Aurora, and Roxborough Water and Sanitation District

Amount Requested/Source of Funds: \$50,000 Metro Account Funds
\$950,000 Statewide Account Funds
\$1,000,000 Total grant request

Matching Funds: Basin Account Match (\$50,000) = 5% of total grant request
Basin Account & Applicant Match (\$14,010,316) = 1,401% of total grant request
Basin Account & Applicant Match (\$14,010,316) = 93.6% of total project costs (\$14,960,316).
(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:
Staff recommends conditional approval (refer to <i>Issues/Additional Need section below</i>) of up to \$50,000 from the Metro Account and \$950,000 from the Statewide account to help fund the project titled: North West Douglas County Rural Water Project.

Water Activity Summary: WSRA funds will be expended to construct 20,000 lf of 6” diameter water transmission line, and a 260,000 gallon water storage tank. Approximately 215 properties currently utilizing Denver Basin Aquifer groundwater resources will be connected and served via the proposed water transmission line, with another 33 future connections expected. The proposed system has been designed to accommodate future development. The Roxborough Water and Sanitation District obtained the rights to acquire an additional 150 AF of renewable water supplies from the City of Aurora. This water will be used to provide a renewable water supply source for several surrounding rural communities that currently rely on individual non-tributary groundwater wells for its water supply. The rural communities to be served include the subdivisions of Plum Valley Heights, Chatfield East, and Chatfield Acres, as well as the Titan Road Industrial Park. This Project will purchase the 150 AF of water from Aurora and will construct the water transmission main, distribution lines, and a storage facility.

Discussion: Non-tributary groundwater in the South Metropolitan Area of Denver has been identified as incapable of providing for long-term demands of the current and future metro area population as is a defined concern in the Metro and South Platte Roundtable Needs Assessment and Implementation Studies. In 2013, the “Douglas County Regional Rural Water Supply and Distribution System Feasibility Study” reviewed the current rural water needs of Douglas County,

under a grant from the WSRA. That study details the plan to make renewable water available to all rural neighborhoods in northern Douglas County and this project would take an initial step in implementing the plan.

Issues/Additional Needs: Additional funding sources include anticipated loans from the Colorado Water Resources and Power Development Authority (CWRPDA), a CWCB Loan, and a Douglas County Loan, therefore staff recommends **conditional** approval based upon applicant successfully securing the aforementioned loans to fully fund this project. Applicant is scheduled to bring a CWCB Loan request for the May 2015 Board Meeting.

Threshold and Evaluation Criteria:

The application meets all four Threshold Criteria

Tier 1-3 Evaluation Criteria:

Staff has reviewed and evaluated the applicant's response to the Statewide Account Evaluation Criteria and has determined that the requirements have been adequately meet. Please refer to WSRA Application for applicant's detailed response.

Funding Summary/Matching Funds:

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
WSRA Metro Account	\$50,000	n/a	\$50,000
WSRA Statewide Account	\$950,000	n/a	\$950,000
CWCB Loan (Pending May 2015)	\$2,226,245	n/a	\$2,226,245
CWRPDA Loan (Pending)	\$5,200,000	n/a	\$5,200,000
Douglas County Loan (Pending)	\$2,676,821	n/a	\$2,676,821
Douglas County Grant	\$1,144,000	n/a	\$1,144,000
Roxborough Deferred Fees	<u>\$2,713,250</u>	<u>n/a</u>	<u>\$2,713,250</u>
Total Project Costs	\$14,960,316	\$0	\$14,960,316

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

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

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

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

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
March 18-19, 2015
Agenda Item 17(k)

Applicant & Fiscal Agent: Rio Grande Headwaters Land Trust

Water Activity Name: The Rio Grande Initiative: Campbell-Redden Property and Dugan Ranch Conservation Easement Projects

Water Activity Purpose: Non-consumptive (Environmental or Recreational)/Implementation

County: Alamosa

River Basin: Rio Grande

Water Source: Rio Grande River

Amount Requested/Source of Funds: \$20,000 Rio Grande Basin Account
\$130,000 Statewide Account
\$150,000 Total grant request

Matching Funds: Basin Account Match (\$20,000) = 13% of total grant request;
Basin Account & Applicant Match (\$915,000) = 610% of total grant request;
Basin Account & Applicant Match (\$915,000) = 87.6% of total project costs
(\$1,045,000);
(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:
Staff recommends approval of up to \$20,000 from the Rio Grande Basin Account, and \$130,000 from the Statewide account to help fund the project titled: The Rio Grande Initiative: Campbell-Redden Property and Dugan Ranch Conservation Easement Projects

Water Activity Summary: WSRA funds will be used towards the purchase of two conservation easements on adjacent properties within the Rio Grande floodplain. The total acreage targeted for conservation easements is 406 acres, with associated water rights. The first property is on the 90 acre Campbell-Redden property in Rio Grande County. The conservation easement will secure approximately 1cfs of the Silva Ditch, the #1 most senior water right on the Rio Grande in Colorado, to the property. The second conservation easement is on the 316-acre Dugan Ranch property adjacent to and bordering the Campbell-Redden property to the east. This property also has several senior surface water rights, including 0.55 cfs of the #3 Priority San Jose Ditch as well as the #144.5 Priority San Jose Ditch.

Discussion: These are important additions to The Rio Grande Initiative's landscape scale effort to protect and sustain the historic water use patterns along the Rio Grande river corridor by tying the water rights to the land through permanent, voluntary conservation easements. Both properties are part of RiGHT's successful Rio Grande Initiative, which benefits both non-consumptive and consumptive water needs in the Rio Grande Basin and contributes to the goal of the Rio Grande Basin Round Table to achieve water sustainability. In fact, both of these properties are situated in a "corridor of conservation", in which they are adjacent or very near to other conserved properties

along the Rio Grande. Within six miles of both properties, there are six additional properties with conservation easements held by RiGHT totaling 2,213 acres, five properties with conservation easements held by other entities, including the Natural Resources Conservation Service (NRCS), Wetlands Reserve Program and Ducks Unlimited for a total of 1,297 acres, and a 13,757 acre Bureau of Land Management (BLM) parcel. This is a total of over 17,000 protected acres in the vicinity of this proposed project.

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

Threshold and Evaluation Criteria:

The application meets all four Threshold Criteria

Tier 1-3 Evaluation Criteria:

Staff has reviewed and evaluated the applicant's response to the Statewide Account Evaluation Criteria and has determined that the requirements have been adequately meet. Please refer to WSRA Application for applicant's detailed response.

Funding Summary/Matching Funds:

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
WSRA Statewide Account	\$130,000	n/a	\$130,000
WSRA Rio Grande Basin Account	\$20,000	n/a	\$20,000
Gates Family Foundation	\$150,000	n/a	\$150,000
Great Outdoors Colorado	\$335,000	\$0	\$335,000
Landowner Conservation Easement Donation	<u>\$410,000</u>	<u>\$0</u>	<u>\$410,000</u>
Total	\$1,045,000	\$0	\$1,045,000

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

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

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

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

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
March 18-19, 2015
Agenda Item 17(l)

Applicant & Fiscal Agent: Central Colorado Water Conservancy District (CCWCD)

Water Activity Name: Water Information Dashboards for Improved Efficiency, South Platte Basin and Statewide

Water Activity Purpose: Agricultural

County: Applicable Statewide

River Basin: Applicable Statewide

River Source: Applicable Statewide

Amount Requested/Source of Funds: \$20,000 South Platte Basin Account
\$200,000 Statewide Account
\$220,000 Total grant request

Matching Funds: Basin Account Match (\$20,000) = 9.1% of total grant request
Basin Account & Applicant Match (\$132,200) = 60.1% of total grant request
Basin Account & Applicant Match (\$132,200) = 39.7% of total project costs (\$332,200). Refer to *Funding Summary/Matching Funds* section.

Staff Recommendation:
Staff recommends approval of up to \$20,000 from the South Platte Basin Account, and \$200,000 from the Statewide Account to help fund the project titled: Water Information Dashboards for Improved Efficiency, South Platte Basin and Statewide.

Water Activity Summary: WSRA funds, if approved, will be expended to develop and deliver “Water Information Dashboards” to integrate separate data management and analysis tools, or “modules,” into a single, web-based interface, to support more efficient operations, transparent communication and better water sharing and collaboration. Dashboard “modules” are the reusable programs and functions that can be combined in different ways to make unique Dashboards from a common set of tools. Modules will share a fundamental code base, be based on the same technology, and be non-proprietary. Examples of module functions include:

1. Web pages that combine live data from multiple sources;
2. Web map interfaces for data access and system management;
3. River call data feeds that users can tailor to specific administrative locations;
4. Collaborative water exchange and sharing forums;
5. Mobile device friendly tools for field data entry or system operations;
6. Automated reporting for stakeholders and administrators;
7. Web-based spreadsheet water accounting that links to real-time data sources.

This project will include updating previously developed tools and creating new tools, and delivering a suite of modern, web-based Dashboard modules in a common technology framework. All of the modules created in this project will be made available to users statewide in an open-source

repository. A comprehensive “wish list” of additional Dashboard modules will be developed from a series of working meetings around the state to lay the groundwork for future development to meet the needs of users, various interests and other Basins not directly benefited from this initial project.

The project’s long term vision include a wide range of module functions to support a variety of local, regional and Statewide challenges. This project will focus on meeting current needs of the cash-matching partners in the South Platte Basin, and will capitalize on work already in progress and existing tools in Divisions 1 and 2. As leaders in sustainable water management practices, this work in the South Platte and Arkansas basins can serve as a template for further work. With up-front investment by the CWCB, water users throughout Colorado can have access to custom water management tools that fit very their very specific needs, built from a common store of modular and reusable components.

Discussion: Staff believes this effort may evolve into a cost effective and valuable statewide tool that can be utilized by agricultural water users of all sizes to better manage water resources which could lead to additional agricultural, M&I, environmental, and recreational opportunities and benefits.

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

Threshold and Evaluation Criteria:

The application meets all four Threshold Criteria

Tier 1-3 Evaluation Criteria:

Staff has reviewed and evaluated the applicant’s response to the Statewide Account Evaluation Criteria and has determined that the requirements have been adequately meet. Please refer to WSRA Application for applicant’s detailed response.

Funding Summary/Matching Funds:

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
WSRA South Platte Basin Account	\$20,000	n/a	\$20,000
WSRA Statewide Account	\$200,000	n/a	\$200,000
CCWCD	<u>\$35,000</u>	<u>\$77,200</u>	<u>\$112,200</u>
Total Project Costs	\$255,000	\$77,200	\$332,200

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

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

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

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

The application identifies seven key tasks to accomplish: 1) Land and Water Protection tools; 2) Identification of Funding Mechanisms Specific to an Agricultural Land/Water Buffer; GIS Mapping for Use in Interviews; 4) Interviews and Surveys of Key Stakeholders; 5) Public Involvement and Outreach; 6) Recommendations and Final Report; and 7) Meetings and Project Management.

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

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

Tier 1-3 Evaluation Criteria:

This project has undergone review and evaluation per the Supplemental Scoring Matrix. Further analysis of the project, and how the project will meet Tiered Evaluation Criteria, is provided by the applicant in the WSRA Application.

Funding Summary/Matching Funds:

The South Platte roundtable has approved a request for \$20,000 from their basin account, and recommended the approval of \$84,954 from the Statewide Account. The Open Water Foundation has committed \$30,000 in cash match.

	<u>Cash</u>
Private foundation cash match	\$30,000
WSRA South Platte Basin Account	\$20,000
WSRA Statewide Account	<u>\$84,954</u>
Total	\$134,954

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

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

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

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

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
March 18-19, 2015
Agenda Item 17(n)

Applicant & Fiscal Agent: Big Thompson Conservation District/Little Thompson Watershed
Restoration Coalition

Water Activity Name: Little Thompson River Water Supply, Use and Planning Study

Water Activity Purpose: Needs Assessment

County: Larimer, Weld & Boulder

Drainage Basin: South Platte

Water Source: Little Thompson River Watershed

Amount Requested/Source of Funds: \$60,000 South Platte Basin Account
 \$60,000 Total grant request

Matching Funds: Applicant Match (\$8,000) = 11.7% of total project costs (\$68,000)
 (refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:
Staff recommends approval of up to \$60,000 from the South Platte Basin Account to help fund the project/study titled: Little Thompson River Water Supply, Use and Planning Study.

Water Activity Summary: WSRA funds will expended to achieve the following objective; to develop a comprehensive analysis of the water availability and use in the Little Thompson River, and to subsequently determine the total volume of water necessary to alleviate any agricultural, domestic and environmental water deficits discovered. The assessment will include the sources of water uses in the watershed and the general impacts of their return flows, plus any potential impacts—good or bad—of changes to the historical uses of water in the basin. The research and statistics resulting from this quantitative assessment will be used to build a foundation for the identification of and timing for subsequent plans and processes related to any potential improvements of water deficits discovered. We recognize the expected increase in demands for water in northeast Colorado’s water basin, and wish to conduct this study as a collaborative effort with the South Platte Basin Roundtable to obtain water supply availability data and address future water needs. The Coalition members are confident there are serious water supply issues within the Watershed. Phase One will give both a true picture of what the needs are as well as an accurate scope of work and budget for Phase Two. Phase Two will be to identify plans and processes to address the needs discovered. The Coalition recognizes and wants to expand the efforts of the CWCB to firmly establish needs before possible solutions are identified. For informational purposes only, Phase Two could explore potential small-scale watershed projects to address needs to alleviate water supply deficits and restore continuous flows in the river to improve environmental use.

Discussion: No further discussion is required

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

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

Tier 1-3 Evaluation Criteria: n/a

Funding Summary/Matching Funds:

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
WSRA South Platte Basin Account	\$60,000	n/a	\$60,000
Little Thompson Watershed Restoration Coalition	\$0	\$8,000	\$8,000
Total Study Costs	\$60,000	\$8,000	\$68,000

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

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

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

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

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
March 18-19, 2015
Agenda Item 17(o)

Applicant & Program Sponsor: Upper Yampa Water Conservancy District

Water Activity Name: Upper Yampa Water Conservancy District Master Plan Modeling

Water Activity Purpose: Study

County: Routt & Moffat

Drainage Basin: Yampa

Water Source: Yampa River Watershed

Amount Requested/Source of Funds: \$25,000 Yampa/White/Green Basin Account

Matching Funds: Applicant Cash Match (\$25,000) = 50% of total study costs (\$50,000)

Staff Recommendation:

Staff recommends approval of up to \$25,000 from the Yampa/White/Green Basin Account to help fund the study titled: Upper Yampa Water Conservancy District Master Plan Modeling.

Water Activity Summary: WSRA funds will be expended to fund further development of the Yampa River CDSS model used in the Roundtable's "Projects and Methods (P&M) Study". This is needed in order to refine proposed projects and their operations as discussed in the Draft Basin Implementation Plan (BIP). The Roundtable's P&M study used StateMod/CDSS to evaluate river operations on the Yampa and White Rivers in order to increase the understanding of how the rivers might operate under various weather conditions, growth scenarios, and under strict administration. The current reports from the study make it clear that the hydrologic situation, water rights and their administration, proposed storage projects and their operation interact in complex ways to control the consumptive and non-consumptive uses of the rivers. In order to have the outcomes of proposed projects meet needs suggested in the draft BIP it will be important to develop local capacity to evaluate these operations. Developing this capacity locally, within the UYWCD, is the goal of this grant request.

Discussion: No further discussion is required

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

Threshold and Evaluation Criteria:

The application meets all four Threshold Criteria

Tier 1-3 Evaluation Criteria: n/a

Funding Summary/Matching Funds:

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
WSRA Gunnison Basin Account	\$25,000	n/a	\$25,000
Upper Yampa Water Conservancy District	\$25,000	n/a	\$25,000
Total Project Costs	\$50,000	\$0	\$50,000

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

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

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

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

**Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
Request for Change of Fiscal Agent
March 18-19, 2015
Agenda Item 17(p)**

Current Applicant & Fiscal Agent: Riverside Ranch Company, LLLP

Proposed Fiscal Agent: Riverside Ranch Irrigation Diversion & River Restoration Project

Water Activity Purpose: Agricultural/Implementation

County: Grand

Drainage Basin: Colorado

Water Source: Colorado River

Total Amount Requested: \$113,000

Source of Funds: \$113,000 Colorado Basin Account

Matching Funds: Applicant Match (\$70,000) = 38.2% of total project costs (\$183,000)
(refer to *Funding Summary/Matching Funds*)

Staff Recommendation
Staff recommends approval of change of fiscal agent from Riverside Ranch, LLLP to Trout Unlimited.

Water Activity Summary: WSRA funds will be expended to assist in the engineering design and permitting of two self-sustaining, engineered riffle grade control structures as well as significant bank stabilization over a one mile reach of the Colorado River. The riffle grade control structures will provide improved hydraulic conditions at the two existing pump stations where Riverside Ranch diverts irrigation water. Additionally, these engineered riffles will provide valuable habitat for benthic invertebrates, a necessary food source for trout. This project includes the engineering design of bank stabilization activities for areas of significant bank erosion and is part of a larger irrigation and river restoration project currently being developed by URS on behalf of Irrigators of Lands in the Vicinity of Kremmling (ILVK) which will cover approximately 10 miles of the Colorado River. More specifically, WSRA funds will be expended to perform Tasks 5-9 as indicated in the Statement of Work, Budget and Schedule.