



**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:** September 11-12, 2014

**AGENDA ITEM:** 13 (a-q)

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### Staff Recommendation - Action Items

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 September 2014 Board Meeting

Agenda Item	Basin	Applicant	Name of Water Activity	Basin(s) Account Request	Statewide Account Request	Total Request	Cash Match	In-Kind Match	Total Match	Staff Recommendations	Notes	PM
13a	Arkansas	Lower Arkansas Valley Water Conservancy District	Basin Implementation Plan - Phase 2	\$209,200	\$104,600	\$313,800	n/a	n/a	n/a	Staff recommends approval of \$209,200 from the Arkansas Basin Account; and \$104,600 from the Statewide Account		Brent Newman
13b	Arkansas	Southeastern Colorado Water Conservancy District	Basin Implementation Plan - Modeling & Shortage Analysis	\$70,000	\$30,000	\$100,000	n/a	n/a	n/a	Staff recommends approval of \$70,000 from the Arkansas Basin Account; and \$30,000 from the Statewide Account		Brent Newman
13c	Arkansas	Lower Arkansas Valley Water Conservancy District	FIRI Analysis and Tailwater Return Flow Study on Fort Lyon Canal	\$30,000	\$145,137	\$175,137	\$80,000	\$0	\$80,000	Staff recommends approval of \$30,000 from the Arkansas Basin Account; and \$145,137 from the Statewide Account		Brent Newman
13d	Arkansas	El Paso County	El Paso County Groundwater Quality Study Phase 2C	\$10,000	\$41,933	\$51,933	\$112,950	\$0	\$112,950	Staff recommends approval of \$10,000 from the Arkansas Basin Account; and \$41,933 from the Statewide Account		Andy Moore
13e	Colorado	Blue River Watershed Group	Tenmile Creek Restoration Project	\$13,750	\$261,250	\$275,000	\$93,750	\$85,000	\$178,750	Staff recommends approval of \$13,750 from the Colorado Basin Account; and \$261,250 from the Statewide Account		Chris Sturm
13f	Gunnison	West Reservoir and Ditch Company	West Reservoir No.1 Outlet Pipe Replacement	\$50,000	\$175,658	\$225,658	\$250,659	\$0	\$250,659	Staff recommends conditional approval of \$50,000 from the Gunnison Basin Account; and \$175,658 from the Statewide Account		Brent Newman
13g	Gunnison	Gunnison County	Repair of Gunnison Whitewater Park	\$10,000	\$0	\$10,000	\$389,000	\$92,260	\$481,260	Staff recommends approval of \$10,000 from the Gunnison Basin Account		Brent Newman
13h	Metro	Greenway Foundation	8th Ave to 20th Street In-River, Recreation and Environmental Improvements and Floodplain Mitigation	\$150,000	\$300,000	\$450,000	\$600,000	\$0	\$600,000	Staff recommends approval of \$150,000 from the Metro Account; and \$300,000 from the Statewide Account		Chris Sturm
13i	Metro	Elbert County	Rural Elbert County Groundwater-Level Monitoring Network	\$12,000	\$96,500	\$114,500	\$150,500	\$15,000	\$165,500	Staff recommends approval of \$12,000 from the Metro Account; \$6,000 from the South Platte Basin Account; and \$96,500 from the Statewide Account		Andy Moore
	South Platte			\$6,000								
13j	Metro	Elbert County	Elbert County Rural Water Supply Study	Applicant Withdrew Application								Craig Godbout
	South Platte											
13k	Metro	South Ledge Ditch Company & Meadow Ditch Company	Meadow and South Ledge Diversion Reconstruction and Fish Passage Project	\$4,250	\$161,500	\$170,000	\$138,500	\$51,200	\$189,700	Staff recommends conditional approval of \$4,250 from the Metro Account; \$4,250 from the South Platte Basin Account; and \$161,500 from the Statewide Account		Chris Sturm
	South Platte			\$4,250								

# Water Supply Reserve Account Applications for Consideration at the CWCB September 2014 Board Meeting

Agenda Item	Basin	Applicant	Name of Water Activity	Basin(s) Account Request	Statewide Account Request	Total Request	Cash Match	In-Kind Match	Total Match	Staff Recommendations	Notes	PM
13l	North Platte	Colorado Climate Center - CSU	Re-establishment of Lysimeters in North Park to Determine High Altitude Hay Meadow Crop	\$97,051	\$97,051	\$194,102	\$97,051	\$37,596	\$134,647	Staff recommends approval of \$97,051 from the North Platte Basin Account; and \$97,051 from the Statewide Account		Craig Godbout
13m	Rio Grande	Colorado Rio Grande Restoration Foundation	Basin Implementation Plan - Phase 2	\$76,000	\$39,000	\$115,000	n/a	n/a	n/a	Staff recommends approval of \$76,000 from the Rio Grande Basin Account; and \$39,000 from the Statewide Account		Craig Godbout
13n	Southwest	Harris Water Engineering	Basin Implementation Plan - Phase 2	\$24,000	\$12,000	\$36,000	n/a	n/a	n/a	Staff recommends approval of \$24,000 from the Southwest Basin Account; and \$12,000 from the Statewide Account		Craig Godbout
13o	Southwest	Trout Unlimited	Redburn Ranch Diversion Dam Project	\$50,000	\$98,500	\$148,500	\$206,000	\$5,000	\$211,000	Staff recommends approval of \$50,000 from the Southwest Basin Account; and \$98,500 from the Statewide Account		Craig Godbout
13p	Southwest	Thompson-Epperson Ditch Company	Thompson-Epperson Ditch Stabilization	\$30,000	\$0	\$30,000	\$60,000	\$0	\$60,000	Staff recommends approval of \$30,000 from the Southwest Basin Account		Craig Godbout
13q	South Platte	Water Preservation Partnership & CSU	Economic Analysis and Design of Policies to Reduce Colorado's Groundwater Use in the Northern High Plains Ground Water Basin	\$7,994	\$151,888	\$159,882	\$56,430	\$0	\$56,430	Staff recommends conditional approval of \$7,994 from the South Platte Basin Account; and \$151,888 from the Statewide Account		Craig Godbout
				<b>\$854,495</b>	<b>\$1,715,016</b>	<b>\$2,569,511</b>						

<u>Basin</u>	<u>Basin Account Requests</u>	<u>Statewide Account Requests</u>	<u>Total</u>	<u>Current Basin Account Balances</u>	<u>Remaining Basin Account Balances (if all requests approved)</u>	<u>Current Statewide Account Balance</u>	<u>Remaining Statewide Account Balance (if all requests approved)</u>
Arkansas Basin	\$319,200	\$321,670	\$640,870	\$545,623	\$226,423		
Colorado Basin	\$13,750	\$261,250	\$275,000	\$547,405	\$533,655		
Gunnison Basin	\$60,000	\$175,658	\$235,658	\$571,978	\$511,978		
Metro Basin	\$166,250	\$429,000	\$595,250	\$277,613	\$111,363		
North Platte	\$97,051	\$97,051	\$194,102	\$1,270,525	\$1,173,474	<b>\$3,457,343</b>	<b>\$1,742,327</b>
Rio Grande	\$76,000	\$39,000	\$115,000	\$320,805	\$244,805		
Southwest	\$104,000	\$110,500	\$214,500	\$759,916	\$655,916		
South Platte	\$18,244	\$280,888	\$299,132	\$399,419	\$381,175		
Yampa/White/Green	\$0	\$0	\$0	\$873,352	\$873,352		
<u>Water Supply Reserve Account Total Requests</u>	<b>\$854,495</b>	<b>\$1,715,016</b>	<b>\$2,569,511</b>	<b>\$5,566,636</b>	<b>\$4,712,141</b>		

**COLORADO WATER CONSERVATION BOARD**  
**Water Supply Reserve Account - Balance Summary**  
**August 1, 2014**

Updated 08/06/14

<b>Fund Appropriation and Receipts</b>				
<b>Fiscal Year</b>	<b>Legislative Appropriation</b>	<b>Funds Received</b>	<b>Statewide Account</b>	<b>Basin Account</b>
<b>2006/2007</b>	\$10,000,000	\$10,000,000	\$5,500,000	\$4,500,000
<b>2007/2008</b>	\$6,000,000	\$6,000,000	\$4,200,000	\$1,800,000
<b>2008/2009</b>	\$10,000,000	\$7,000,000	\$4,300,000	\$2,700,000
<b>2009/2010</b>	\$5,775,000	\$5,775,000	\$4,215,750	\$1,559,250
<b>2010/2011</b>	\$6,000,000	\$6,000,000	\$4,380,000	\$1,620,000
<b>2011/2012</b>	\$7,000,000	\$7,000,000	\$4,732,000	\$2,268,000
<b>2012/2013</b>	\$10,000,000	\$7,157,724	\$4,580,943	\$2,576,781
<b>2013/2014</b>	\$10,000,000	\$10,091,639	\$6,458,649	\$3,632,990
<b>2014/2015</b>	\$10,000,000	\$4,000,000	\$2,560,000	\$1,440,000
<b>Interest</b>	N/A	\$2,857,935	\$1,829,078	\$1,028,856
<b>TOTAL</b>	\$74,775,000	\$65,882,298	\$42,756,420	\$23,125,877

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.*

<b>Fund Distribution</b>					
<b>Basin</b>	<b>Approved Basin Grants</b>	<b>Total Basin Funds</b>	<b>Basin Account Balance</b>	<b>Approved State Grants</b>	<b>Statewide Account Balance</b>
<b>Arkansas</b>	\$2,023,919	\$2,569,542	\$545,623	\$6,176,865	
<b>Colorado</b>	\$2,022,137	\$2,569,542	\$547,405	\$3,976,760	
<b>Southwest</b>	\$1,809,626	\$2,569,542	\$759,916	\$5,160,359	
<b>Gunnison</b>	\$1,997,564	\$2,569,542	\$571,978	\$3,578,833	
<b>Metro</b>	\$2,291,929	\$2,569,542	\$277,613	\$4,211,768	
<b>North Platte</b>	\$1,299,017	\$2,569,542	\$1,270,525	\$311,027	
<b>Rio Grande</b>	\$2,248,737	\$2,569,542	\$320,805	\$9,891,323	
<b>South Platte</b>	\$2,170,123	\$2,569,542	\$399,419	\$5,380,080	
<b>Yampa/White</b>	\$1,696,190	\$2,569,542	\$873,352	\$612,063	
<b>TOTAL</b>	\$17,559,242	\$23,125,877	\$5,566,635	\$39,299,077	\$3,457,343
<b>TOTAL APPROVED GRANTS</b>					<b>\$56,858,319</b>

Note: Only includes grants approved by CWCB

**Water Supply Reserve Account – Grant and Loan Program**  
**Water Activity Summary Sheet**  
**September 11-12, 2014**  
**Agenda Item 13(a)**

**Applicant & Program Sponsor:** Lower Arkansas Valley Water Conservancy District

**Water Activity Name:** Arkansas Basin Implementation Plan - Phase 2

**Water Activity Purpose:** All inclusive

**County:** n/a

**Drainage Basin:** Arkansas

**Water Source:** Arkansas River & tributaries

**Total Amount Requested:** \$313,800

**Source of Funds:** \$209,200 Arkansas Basin Account; and \$104,600 Statewide Account

**Matching Funds:** n/a

<b>Staff Recommendation:</b>
Staff recommends approval of up to \$209,200 from the Arkansas Basin Account; and \$104,600 from the Statewide Account to help fund the project titled: Arkansas Basin Implementation Plan - Phase 2.

**Water Activity Summary:** WSRA funds will be expended to complete the Arkansas Basin Implementation Plan – Phase 2 that conforms to the Basin Implementation Plan Guidance Document, with the Lower Arkansas Valley Water Conservancy District acting as the applicant and program sponsor.

**Discussion:**

No additional discussion is needed.

**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

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**  
**September 11-12, 2014**  
**Agenda Item 13(b)**

**Applicant & Program Sponsor:** Southeastern Colorado Water Conservancy District

**Water Activity Name:** Arkansas Basin Implementation Plan – Modeling & Shortage Analysis

**Water Activity Purpose:** All inclusive

**County:** n/a

**Drainage Basin:** Arkansas

**Water Source:** Arkansas River & tributaries

**Total Amount Requested:** \$100,000

**Source of Funds:** \$70,000 Arkansas Basin Account; and \$30,000 Statewide Account

**Matching Funds:** n/a

<b>Staff Recommendation:</b>
Staff recommends approval of up to \$70,000 from the Arkansas Basin Account; and \$70,000 from the Statewide Account to help fund the project titled: Arkansas Basin Implementation Plan - Modeling & Shortage Analysis.

**Water Activity Summary:** WSRA funds will be expended to complete the Arkansas Basin Implementation Plan – Modeling & Shortage Analysis that conforms to the Basin Implementation Plan Guidance Document, with the Southeastern Colorado Water Conservancy District acting as the applicant and program sponsor. The Draft Arkansas Roundtable Basin Implementation Plan was delivered to the Colorado Water Conservation Board on the July 31, 2014 deadline. At the time of delivery, the Plan acknowledged that it was a draft only. Additional time and resources are required to verify and enhance the hydrologic model through a technical subcommittee. This model will be used to simulate future demand scenarios and evaluate shortages under dry, average and wet hydrologic conditions within the Arkansas River Basin. The model will provide the Basin with a planning tool that can be used to identify regional shortages/conflicts.

**Discussion:**

No additional discussion is needed.

**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



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**  
**September 11-12, 2014**  
**Agenda Item 13(c)**

**Applicant:** Lower Arkansas Valley Water Conservancy District

**Program Sponsor:** Lower Arkansas Valley Water Enterprise Fund

**Water Activity Name:** FIRI Analysis and Tailwater Return Flow Study on Fort Lyon Canal

**Water Activity Purpose:** Agricultural Study

**County:** Bent

**Drainage Basin:** Arkansas

**Water Source:** Arkansas River

**Total Amount Requested:** \$175,137

**Source of Funds:** \$30,000 Arkansas Basin Account; \$145,137 Statewide Account

**Matching Funds:** Basin Account Match (\$30,000) = 17% of total grant request  
Basin Account & Applicant Match (\$80,000) = 45.7% of total grant request  
Applicant Match (\$50,000) = 22.2% of total study costs (\$225,137)  
(refer to *Funding Summary/Matching Funds*)

<b>Staff Recommendation:</b>
Staff recommends approval of up to \$30,000 from the Arkansas Basin Account and \$145,137 from the Statewide account to help fund the study titled: FIRI Analysis and Tailwater Return Flow Study on Fort Lyon Canal.

**Water Activity Summary:** The first phase of the study (for which the Applicant is currently seeking funding) will utilize the Farm Irrigation Rating Index (FIRI) method on a canal-wide basis to analyze irrigation efficiency. This analysis will involve extensive data collection and observation pertaining to irrigation management and systems with the goal of establishing more representative canal-wide irrigation efficiency. It will then select a limited number of farms on a single section of the Fort Lyon Canal to provide sufficient data on tailwater return flows.

The goal of the first phase of the Study will be to obtain high-quality data on farm efficiency, pursuant to a FIRI analysis, and on the actual amounts of tailwater return flows occurring from flood-irrigated farms on a subset of the Fort Lyon Canal. The FIRI Analysis and Tailwater Study will enable a better understanding of the farm irrigation efficiency and how tailwater return flows actually accrue to the Arkansas River as compared to the tailwater assumption, an irrigation efficiency factor, contained in the Irrigation System Analysis Model (ISAM). ISAM was developed to provide a standard methodology for performing evaluations as to whether irrigation system improvements result in a reduction or change in the timing or location of historical seepage losses or return flows in violation of Article IV-D of the Arkansas River Compact and to implement the “Compact Rules Governing Improvements to Surface Water Irrigation Systems in the Arkansas River Basin in Colorado” (the “Irrigation Improvements Rules”).

ISAM is widely believed to be overly-conservative on water-short ditch systems such as the Fort Lyon Canal. Moreover, it did not consider whether tailwater run-off from one field may actually be utilized on another field within the same farm. A priority of all parties in developing the Irrigation Improvements Rules and the ISAM was to ensure that these rules would not create a disincentive to install irrigation system improvements. However, overly-conservative assumptions in the ISAM can have this effect and can also result in over-delivery of Colorado's water resources to Kansas. A lower tailwater assumption and increased maximum farm irrigation efficiency factor will also have the benefit of increasing the anticipated transferable yield associated with Fort Lyon shares in the context of other water transfers, such as rotational leasing-fallowing projects.

The Study is designed to conserve existing water resources and reduce pressure on existing water supplies, both of which would assist in meeting both the M&I and agricultural water gaps identified in the Arkansas River Basin Consumptive Needs Assessment: 2030 (June 2008). The potential water savings that may result from a lower, more accurate tailwater return flow assumption and increased maximum farm irrigation efficiency factor on the Fort Lyon Canal could reduce the amount of water supplies needed to meet Compact compliance requirements under the Irrigation Improvements Rules, leaving that water available to meet other needs, including M&I needs. Also, by decreasing the costs associated with Compact compliance for irrigation system improvements, the Study could promote further installation of irrigation system improvements and the resultant benefits of increased water efficiency, increased productivity, and improved water quality. Additional transferable yield will similarly be available from temporary (i.e., rotational leasing and fallowing programs) and/or permanent changes to Fort Lyon shares.

**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:**

Tier 1: (a) The study will address agricultural irrigation efficiency and assist in determining the amount of water needed to meet Arkansas River Compact obligations.

(b) The Lower Ark District will work in close collaboration with Fort Lyon Canal farmers to undertake the first phase of the Study. The study will also involve cooperation and collaboration with the Fort Lyon Canal Company in undertaking the study and the Division 2 Engineer's Office of the Division of Water Resources.

(c) The Tailwater Study is designed to actively and measurably lead to the development of conserved water to meet both the M&I gap and the agricultural gap, as identified in the Arkansas River Basin Consumptive Needs Assessment: 2030 (June 2008).

Tier 2: (d) Without funding from the WSRA, this phase of the Tailwater Study will not be undertaken. Alternate means of funding have been explored but none appear to be available.

(e) The Lower Ark District has demonstrated a significant commitment to the Tailwater Study through matching funds of \$50,000.

Tier 3: (f) The anticipated results of the Tailwater Study will help sustain agriculture by ensuring that Fort Lyon farmers continue to have incentives to invest in their operations and install irrigation system improvements. Such investments are needed to ensure the future health and vitality of agricultural communities. Moreover, these irrigation system investments could improve water quality and benefit both the environment and recreation on the Lower Arkansas River.

(g) The Tailwater Study will address problems related to compact-entitled water and compact compliance and promotes maximum utilization of state waters. One of the study's broad aims is to ensure that the accuracy of "return flow maintenance water" calculations pursuant to the Irrigation Improvements Rules such that a violation of the Arkansas River Compact is avoided. The Tailwater Study will provide the data needed to refine the H-I Model and the ISAM in a way that is anticipated to reduce the burdens of Compact compliance on farmers.

(h) n/a

(i) Though not easily quantified because the amount of water saved will ultimately depend on the results of the full study and the rate of sprinkler growth, the data and analysis generated from this phase of the Tailwater Study will provide a high level of benefit. The anticipated reduction in the tailwater assumption and an increase in the maximum farm irrigation efficiency factor on the Fort Lyon is likely to lead to encourage increasing water efficiency and agricultural productivity through installation of sprinkler systems on irrigated lands and reductions in return flow obligations under the Arkansas River Compact.

(j) Most immediately, the data and analysis resulting from completion of the full Tailwater Study may be incorporated into the H-I Model and the ISAM and will further the CWCB goals of promoting more efficient use of water while ensuring Compact compliance. It also has the potential to generate data that may be relevant for the Arkansas decision support system.

**Funding Summary/Matching Funds:**

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
WSRA Arkansas Basin Account	\$30,000	n/a	\$30,000
WSRA Statewide Account	\$145,137	n/a	\$145,137
Lower Arkansas Water Conservancy District	<u>\$50,000</u>	<u>\$0</u>	<u>\$50,000</u>
<b>Total Study Costs</b>	<b>\$225,137</b>	<b>\$0</b>	<b>\$225,137</b>

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**  
**September 11-12, 2014**  
**Agenda Item 13(d)**

**Applicant & Program Sponsor:** El Paso County

**Water Activity Name:** El Paso County Groundwater Quality Study Phase 2c

**Water Activity Purpose:** Water Quality Study

**County:** El Paso

**River Basin:** Arkansas

**Water Source:** Upper Black Squirrel Creek

**Total Amount Requested:** \$51,933

**Source of Funds:** \$10,000 Arkansas Basin Account; \$41,933 Statewide Account

**Matching Funds:** Basin Account Match (\$10,000) = 19% of total grant request  
Basin Account & Applicant Match (\$112,950) = 218% of total grant request  
Applicant Match (\$102,950) = 67% of total study costs (\$154,833)  
(refer to *Funding Summary/Matching Funds*)

<b>Staff Recommendation:</b>
Staff recommends approval of up to \$10,000 from the Arkansas Basin Account and \$41,933 from the Statewide Account to help complete the study titled: El Paso County Groundwater Quality Study Phase 2c.

**Water Activity Summary:** The unincorporated area of El Paso County is the primary source of drinking water for many rural residents, as well as numerous municipal entities and their customers. More than 35,000 people depend on this groundwater supply, which is also in the same general area that oil and gas development companies have been writing leases with local landowners. The Groundwater Quality Study Committee is a group appointed by the Board of County Commissioners of El Paso County. In 2009 the Committee developed data necessary for the protection and enhancement of the alluvial storage space and groundwater dependent areas of the County. The mission of the coalition is to evaluate existing water quality data on nitrates and other contaminants, fill data gaps and explore land use and water resources planning implications. The County, under a shared funding arrangement with Committee partners, contracted with the Colorado Geologic Survey to conduct Phase 1 of the Groundwater Quality Study. The project is now ready to complete Phase 2c by building on the work of Phase 1 and work completed in 2011 and further water quality parameter sampling completed in 2013 & 2014 under Phase 2a and 2b, respectively. The US Geologic Survey was a technical advisor for Phase 1 and is the lead consultant for Phase 2. WSRA funds are requested for identification of and/or installation of monitoring wells to include in a long-term monitoring program, hydrologic evaluation, additional aquifer characteristics analysis and vulnerability potential, to provide for early detection of possible contamination that may be a risk to human health and the

environment. The El Paso County Groundwater Quality Study Phase 2c (Task 5) is the next step towards quantifying how much an enhanced storage and banking operation would protect water quality in the face of urbanized growth, oil and gas development and historic agricultural interests. Specific objectives are more thoroughly described in Task 5 in the attached Statement of Work.

**Discussion:**

Phase 1 was partially funded through a \$35,000 WSRA grant in 2012.

**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:**

Tier 1: (a) Numerous local entities and both local and State agencies will be able to utilize the Phase 2 baseline water quality study results and related age dating vulnerability assessment mapping for policy decisions and revisions that seek to address the goal of prolonging water supply and quality of El Paso County groundwater resources. The Arkansas Roundtable sees this as a project of Statewide significance given that the methodology used in the study for age dating the aquifer supply and correlating a groundwater pollution vulnerability and probability model is a tool that has been very valuable to this aquifer, to the Eagle River alluvial aquifer, and would likely be a valuable tool for many other alluvial aquifers throughout the state where competing uses and urbanization threaten to increase the gap through diminished water quality.

(b) The project is supported by the Cherokee Metropolitan District. Additional entities represented in the application include the local Designated Basin Management District (Upper Black Squirrel Creek), the Colorado Groundwater Commission, the El Paso County's Health Department and Development Services, and the Pikes Peak Regional Water Authority, whom are all vested in the long-term protection of the alluvial storage and water resources, but all recognize an insufficient data set on water quality, aquifer characteristics and vulnerability to contamination. The project will generate baseline water quality data that includes constituents of concern that may result from oil and gas development activities and in this respect the study has been scoped to promote cooperation and collaboration among traditionally competitive consumptive water interests and a blossoming energy sector.

(c) The collaborative protection and promotion of water quality and enhanced water storage will lead to greater cooperation, minimized evaporative losses from surface storage, better science based decisions, and utilization of El Paso County resources to meet El Paso County water demands, thereby reducing demand on the mainstem of the Arkansas and Platte Rivers and seeking to further develop efficient storage

that can reduce the Fountain Creek return flow and stormwater issues while making the most of any mainstem and/or trans-mountain water resources utilized in the County. This study will allow policy makers appropriate tools and resources in their decisions on how the basin is protected from potential contamination and further quantify how the basin could be used as enhanced storage and water making for future generations.

Tier 2: (d) The Phase 2 Groundwater Quality Study has a sizable scope of work with valuable deliverable which come at significant costs, for which there are very important long-range land use planning and supply security implications. Despite very significant local buy in from a wide variety of entities across a wide spectrum of industries and institutions, there is an unmet funding need. WSRA funding will provide measurable and significant leverage of the local dollars, allowing this valuable project to move forward.

(e) Local stakeholders have funded approximately 30% of the project, USGS matching funds can be leveraged up to 42% or \$144,000 if the full stream of adequate matching funds can be developed on top of local stakeholder contributions. Additionally, numerous other entities are making and have committed to on-going in-kind technical and/or manpower contributions that are essential to the budget and success of the Phase 2 project. El Paso County Health Department has committed to provide an intern, as needed, to assist USGS, in addition to a multitude of land use, zoning, small area master planning, and transportation and growth prediction mapping resources essential to the interface of vulnerability assessment with land use. Municipal districts and the Groundwater Management District have committed their consultants, staff, laboratory facilities, well logs and other relevant records.

Tier 3: (f) The project is essential to the protection of multiple use source of supply that supports everything from agriculture to industry..

(g) n/a

(h) n/a

(i) The oil and gas specific work and its incorporation into a vulnerability assessment based on geosciences is a model that can be utilized across this state and beyond.

(j) n/a



**Funding Overview/Matching Funds:**

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
WSRA Statewide Account	\$41,933	n/a	\$41,933
WSRA Arkansas Basin Account	\$10,000	n/a	\$10,000
El Paso County	\$5,000	\$0	\$5,000
Cherokee Metro District	\$17,500	\$0	\$17,500
Woodmen Hills Metro District	\$5,000	\$0	\$5,000
Mountain View Electric Association	\$5,000	\$0	\$5,000
State Land Board	\$5,000	\$0	\$5,000
USGS	<u>\$65,450</u>	<u>\$0</u>	<u>\$65,450</u>
<b>Total</b>	<b>\$154,883</b>	<b>\$0</b>	<b>\$154,883</b>

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.

**Water Supply Reserve Account – Grant and Loan Program**  
**Water Activity Summary Sheet**  
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**Agenda Item 13(e)**

**Applicant & Program Sponsor:** Blue River Watershed Group (BRWG)

**Water Activity Name:** Tenmile Creek Restoration Project Phase II

**Water Activity Purpose:** Non-consumptive Structural Water Project

**County:** Summit

**Drainage Basin:** Colorado

**Water Source:** Tenmile Creek

**Total Amount Requested:** \$275,000

**Source of Funds:** \$13,750 Colorado Basin Account; \$261,250 Statewide Account

**Matching Funds:** Basin Account Match (\$13,750) = 5% of total grant request  
Basin Account & Applicant Match (\$178,750) = 65% of total grant request  
Applicant Match (\$165,000) = 37.5% of total project costs (\$440,000)  
(refer to *Funding Summary/Matching Funds*)

<b>Staff Recommendation</b>
Staff recommends approval upon the condition of addressing concerns specified below in the Issues/Additional Needs section of up to \$13,750 from the Colorado Basin Account and \$261,250 from the Statewide account to help fund the project titled: Tenmile Creek Restoration Project.

**Water Activity Summary:**

This project includes stream and floodplain restoration, soil amendment, wetlands creation, and revegetation in a heavily impacted reach of Tenmile Creek near the Copper Mountain ski area. Funding will be used for: 1) securing materials for restoration work such as soil amendment products and native plants; 2) producing construction drawings from a design that has already been completed; 3) excavation and earthmoving; 4) in-stream habitat improvements; 5) incorporating soil amendments; 6) planting native vegetation; 7) wetlands creation; 8) documentation of the project for outreach and monitoring; and 9) supporting project management and oversight by the Blue River Watershed Group.

The restoration area has been impacted by historic mining, timber harvest, ski area development, and railroad and highway construction. Development along Tenmile Creek has altered its course and narrowed its floodplain. Tenmile Creek has been altered by widespread deposition of sediments, including sediments from mining activity. The resulting morphology is a braided stream channel flowing over poorly vegetated alluvium. Additionally, direct inputs of storm water, traction sand, and petroleum products from State Highway 91 affect water quality in Tenmile Creek.

**Discussion:**

This is the second phase of the Tenmile Creek Restoration Project. The first phase was funded through the Water Supply Reserve Account (\$350,000). This phase of the project will continue

immediately downstream of the previous project. The restoration effort is designed to enhance floodplain connectivity, fish habitat quality, scenery, and wetlands function by re-creating the stream morphology and floodplain characteristics that existed before mining and development. The project will increase sinuosity and length in the stream channel, increase pool habitat and cover for fish, and increase the total area of vegetated wetlands. The project will improve recreational opportunities and public access to Tenmile Creek. The project will create a vegetated buffer between the stream and State Highway 91, reducing stream sedimentation and flood damage to the highway. The project also incorporates an education and outreach component by using volunteers to plant riparian plant species.

#### **Issues/Additional Needs:**

- BRWG should work with CWCB Staff to ensure that geomorphic monitoring conforms to CWCB Measurable Results Program criteria.
- All proposed river channel work shall conform to the CWCB Rules and Regulations for Regulatory Floodplains in Colorado.

#### **Threshold and Evaluation Criteria:**

The application meets all four Threshold Criteria

#### **Tier 1-3 Evaluation Criteria:**

The application satisfies the Evaluation Criteria

#### **Funding Summary/Matching Funds:**

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
WSRA Colorado Basin Account	\$13,750	n/a	\$13,750
WSRA Statewide Account	\$261,250	n/a	\$261,250
Climax Molybdenum	\$25,000	\$0	\$25,000
Colorado DOT	\$30,000	\$0	\$30,000
National Forest Foundation	\$25,000	\$0	\$25,000
Cooper Mountain Resort	\$0	\$60,000	\$60,000
USFS	\$0	\$15,000	\$15,000
Blue River Watershed Group	<u>\$0</u>	<u>\$10,000</u>	<u>\$10,000</u>
<b>Total Project Costs</b>	<b>\$355,000</b>	<b>\$85,000</b>	<b>\$440,000</b>

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**  
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**Agenda Item 13(f)**

**Applicant & Program Sponsor:** West Reservoir and Ditch Company

**Water Activity Name:** West Reservoir No.1 Outlet Pipe Replacement

**Water Activity Purpose:** Agricultural

**County:** Delta

**Drainage Basin:** Gunnison

**Water Source:** Surface water from Grand Mesa

**Total Amount Requested:** \$225,658

**Source of Funds:** \$50,000 Gunnison Basin Account; \$175,658 Statewide Account

**Matching Funds:** Basin Account Match (\$50,000) = 22% of total grant request (\$225,658)  
Basin Account & Applicant Match (cash & in-kind: \$250,659) = 111% of total grant request (\$225,658)  
Applicant Match (cash: \$200,659) = 47.1% of total project costs (\$426,317)  
(refer to *Funding Summary/Matching Funds*)

<b>Staff Recommendation:</b>
Staff recommends conditional approval contingent upon the applicant satisfying the concerns as identified in the <i>Issues/Additional Needs</i> section of up to \$50,000 from the Gunnison Basin Account and \$175,658 from the Statewide account to help fund the project titled: West Reservoir No.1 Outlet Pipe Replacement, contingent upon the applicant successfully qualifying for a loan from CWCB for the remainder of the project costs (\$146,997).

**Water Activity Summary:** WSRA funds will be expended to fund the replacement of the existing outlet pipe on West Reservoir No. 1. The existing outlet pipe, upon inspection by the State Engineer's Office (SEO) has undergone severe corrosion with many of the sections missing which has subsequently caused scouring of earth and stone beneath the missing sections of pipe. The SEO has issued a zero fill order for 2014 on West Reservoir No. 1. The project comprises three components: 1) safely emptying the reservoir (completed); 2) engineering and planning; and 3) construction of new outlet pipe.

**Discussion:**

The applicant originally requested \$75,000 from the Gunnison Basin Account, however the Gunnison Basin Roundtable approved up to \$50,000 from the Gunnison Basin Account.

**Issues/Additional Needs:**

The applicant has contacted CWCB's Finance Section to inquire about qualifying for and obtaining a loan for the remaining costs of the project not covered by the WSRA Grant funds and applicant's in-kind match.

**Threshold and Evaluation Criteria:**

The application meets all four Threshold Criteria

**Tier 1-3 Evaluation Criteria:**

Tier 1: (a) The replacement of the outlet pipe and resumption of reservoir operations will allow the reservoir owners and operators to: provide occasional emergency water for firefighting purposes; provide water for dust control; provide periodic storage of early run-off water for other water rights owners; and generate sub-surface return flows that provide irrigation water to other irrigators as documented in *Groundwater Systems in Delta County, Colorado: Oak Mesa Area – GIS-Based Hydrological and Environmental Systems Analysis and Formulation of Conceptual Site Models* prepared for Dealt County Board of County Commissioners, Colorado, authored by Integral Consulting Inc. dated August 31, 2012 (available upon request).

(b) not addressed (n/a)

(c) n/a

Tier 2: (d) The applicants states that: “Due to the limited resources of the three company shareholders, this application for Grant money is crucial to continuing with the dam outlet repair”.

(e) If the applicant obtains a CWCB Loan, the applicant’s contribution (cash and in-kind) represent 88.9% of total project costs.

Tier 3: (f) The replacement of the outlet pipe and resumption of reservoir operations will allow the reservoir owners and other irrigators to continue agricultural operations. Currently there are approximately 600 acres irrigated under the West Reservoir and Ditch Company.

(g) The stored water is pre-compact water dating to 1905.

(h) The reservoir provides habitat for a significant population of Northern Leopard frogs, a Colorado “state special concern” animal. Abandoning the reservoir would severely impact, if not eliminate that population. Preserving the reservoir will help protect this species, as documented in: NEPA Environmental and Bio-report and map prepared by John Monarch, (Monarch Associates, Cedaredge, co) as part of Oxbow' Corp's coal exploration efforts in 1/ 2012 and updated throughout 2013, filed with the BLM Montrose office, Desty Dyer BLM project specialist; NEPA Environmental and Bio-report and Map prepared by John Monarch, as part of Gunnison Energy's gas exploration efforts in 1/ 2002 and updated throughout 2008, filed with the BLM Montrose office; and Conservation Easement Environmental assessment prepared by Biologics Ltd in 2000 and kept on record with Black Canyon Regional Land Trust 1561 Oxbow Drive, Timberline Bank Bldg, Montrose, CO 970.240.2050

(i) n/a

(j) n/a

**Funding Summary/Matching Funds:**

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
WSRA Gunnison Basin Account	\$50,000	n/a	\$50,000
WSRA Statewide Account	\$175,658	n/a	\$175,658
CWCB Loan (if obtained)	\$146,997	\$0	\$146,997
Applicant provided	<u>\$53,662</u>	<u>\$0</u>	<u>\$53,662</u>
<b>Total Project Costs</b>	<b>\$426,317</b>	<b>\$0</b>	<b>\$426,317</b>

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**  
**September 11-12, 2014**  
**Agenda Item 13(g)**

**Applicant & Program Sponsor:** Gunnison County

**Water Activity Name:** Repair of Gunnison Whitewater Park

**Water Activity Purpose:** Nonconsumptive (Recreational)

**County:** Gunnison

**River Basin:** Gunnison

**Water Source:** Gunnison River

**Total Amount Requested:** \$10,000

**Source of Funds:** \$10,000 Gunnison Basin Account

**Matching Funds:** Applicant & 3<sup>rd</sup> parties are providing total combined cash & in-kind match of \$471,260, of total project costs of \$481,260 (refer to *Funding Overview/Matching Funds*).

<b>Staff Recommendation</b>
Staff recommends approval of up to \$10,000 from the Gunnison Basin Account to help complete the project titled: Repair of Gunnison Whitewater Park.

**Water Activity Summary:** The purpose of this grant is to make necessary repairs to the Gunnison Whitewater Park structures to ensure its functionality and safety for years to come. The Park is one of the most heavily used assets in the Gunnison Valley, attracting hundreds of users of all ages and demographics in the summer months. It was created to provide activities for a variety of uses including fishing, kayaking, rafting, swimming and simply relaxing near the river. The Park has created significant improvements within the river corridor that include improved fishing habitat, fish passage, bank stabilization, and improved river access for recreational users.

This fall, Gunnison County staff identified several issues with two of the three existing features. McLaughlin Whitewater Design Group was retained to evaluate the features, identify any structural damage and provide repair recommendations. Currently, structures 2 and 3 have begun to deteriorate, no longer creating a surfable hydraulic, and boulders caved off from the 3<sup>rd</sup> feature are creating safety issues for users. The proposed project will repair feature 3, stabilize the channel downstream of feature 3, and stabilize the pool downstream of feature 2. Boulders, riprap, and cobbles will be mixed and placed in the pools downstream and adjacent to feature 2 and 3 to control scour and protect the whitewater wave structures.

**Discussion:**

The creation of the Gunnison Whitewater Park and its recreational uses helped secure a Recreational Inflow Water Right for the Gunnison River Basin ranging from 270 cfs to 1200 cfs. This is a permanent water right and preserves healthy river flows and a sustainable water source for local communities and a livable habitat for wildlife.



**Issues/Additional Needs:**

Authorization of the work necessary to repair the structures would require authorization by the USACE for work performed in regulated “waters of the U.S.” Based on the evaluation provided by McLaughlin Whitewater Design Group, application for USACE Nation Wide Permits #3 (Maintenance) and #33 (Temporary Construction, Access and Dewatering) would be required before commencement of the repair work.

The permit process would include; identification of regulated water features, including wetlands if located within the project perimeter, and the Ordinary High Water Mark of the river associated with the project area; a pre-application meeting with Army Corps of Engineers; preparation of a USACE preconstruction notification (PCN); and application for the above mentioned authorized NWP permits. Plan and cross sections of the proposed repair activities will be prepared by McLaughlin Whitewater Design Group, and these will be submitted with the permit application. Activities to stabilize Feature 1 (75 Ditch Diversion) will likely not be regulated as this is a water diversion for agricultural use. However, the permit application will identify this feature and activity and request an opinion regarding regulation.

**Threshold and Evaluation Criteria:**

The application meets all four Threshold Criteria.

**Tier 1-3 Evaluation Criteria:**

n/a

**Funding Overview/Matching Funds:**

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
WSRA Gunnison Basin Account	\$10,000	n/a	\$10,000
Great Outdoors Colorado (pending)	\$325,000	\$0	\$325,000
Gunnison County	\$35,000	\$90,200	\$125,200
Gunnison River Festival	\$5,000	\$0	\$5,000
Western State Colorado University	\$3,000	\$0	\$3,000
City of Gunnison	\$3,000	\$60	\$3,060
Town of Crested Butte (pending)	\$3,000	\$0	\$3,000
1% For Open Space	\$5,000	\$0	\$5,000
JM Consulting	\$0	\$2,000	\$2,000
<b>Total</b>	<b>\$389,000</b>	<b>\$92,260</b>	<b>\$481,260</b>

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.

**Water Supply Reserve Account – Grant and Loan Program**  
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**Applicant & Program Sponsor:** The Greenway Foundation

**Water Activity Name:** 8<sup>th</sup> Avenue to 20<sup>th</sup> Street In-River, Recreation and Environmental Improvements and Floodplain Mitigation

**Water Activity Purpose:** Nonconsumptive

**County:** Denver

**Drainage Basin:** South Platte

**Water Source:** South Platte River

**Total Amount Requested:** \$450,000

**Source of Funds:** \$150,000 Metro Account; and \$300,000 Statewide Account

**Matching Funds:** Basin Account Match (\$150,000) = 33.3% of total grant request (\$450,000)  
Basin Account & Applicant Match (cash: \$600,000) = 133.3% of total amount request  
Applicant Match (\$450,000) = 50% of total project costs (\$900,000)  
(refer to *Funding Summary/Matching Funds*)

<b>Staff Recommendation:</b>
Staff recommends approval of up to \$150,000 from the Metro Basin Account; and \$300,000 from the Statewide Account to help fund the project titled: 8 <sup>th</sup> Avenue to 20 <sup>th</sup> Street In-River, Recreation and Environmental Improvements and Floodplain Mitigation.

**Water Activity Summary:** This design will continue to build on the legacy of multi-objective river access, recreational enhancements and environmental and habitat improvements that are the key elements of the River North (RINO) and River South (RISO) Greenway master plans and the subsequent South Platte River Vision Implementation Plan (SPRVIP) and Confluence Park master plan. If approved by the CWCB, this WSRA grant will progress the RINO, RISO, Confluence Park and SPRVIP multi-objective recreation and habitat improvements from conceptual design to 60 Percent design for a portion of the South Platte River between 8th Avenue to 20th Street.

The design effort will focus on validating design criteria, preparing preliminary design drawings and specifications, preparing 60 percent design documents and identifying required permits for river improvements in the following reaches described in the SPRVIP: Sun Valley Riverfront Park, Gates Crescent Park, Fishback Landing Park, Elitch Gardens/Centennial Gardens, Confluence Park, Commons Park and the river corridor downstream to 20th Street. Specific improvements target non-consumptive needs including multi-use river access facilities, channel bank modifications to provide additional habitat, and modification of existing drop structures to provide state-of-the-art boating and fishing experiences, as well as enhanced aquatic and terrestrial habitat through the length of the reach, tubing, wildlife enhancements, and pool and riffle habitat, as well as floodplain mitigation in this urban environment.

This project represents a portion of the SPRVIP and is identified in the Metro Basin Needs Assessment Report (March 2011) addressing non-consumptive needs, specifically targeting habitat restoration, recreation and floodplain mitigation improvements. In addition, it addresses the extensive deposition of sediment in the mile reach upstream of Confluence Park to 8th Avenue that contributes to an increase in the 100-year floodplain compared to the 2012 LOMR. This 60 percent design will provide the level of detail required to develop more accurate construction cost opinions, which will be used to identify and secure the funding that will be required to construct this project.

**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:**

Tier 1: (a) The proposed improvements will integrate multi-objective recreation, habitat and floodplain mitigation enhancements that will benefit the Front Range community and one of the most densely-populated areas in the State of Colorado.

(b) This water activity will best leverage existing funding commitments, use of public and private resources and will result in constructed improvements. Because of the momentum and broad community support associated with the River Vision Implementation Plan, currently being constructed upstream of this reach, this project is an ideal candidate for implementing nonconsumptive improvements in the South Platte River through Denver.

(c) This project helps implement the South Platte River Greenway as identified in the SWSI 2010 (June 2011) Metro Basin Report Basinwide Consumptive and Nonconsumptive Water Supply Assessments.

Tier 2: (d) WSRA funds are necessary for successful completion of the project and further leveraging of local monies. A significant investment has been expended to date to develop this South Platte River vision, as portrayed in the RINO, RISO and RVIP plans.

(e) Project stakeholders (The Greenway Foundation, the City and County of Denver and the Urban Drainage and Flood Control District) have already secured \$450,000 in matching funds. The amount of matching funds far exceeds the 25 percent requirement; in fact, the committed matching funding is 100 percent of the grant request.

Tier 3: (f) This project helps sustain open space and recreational needs by improving and preserving river corridor access.

(g) n/a

(h) n/a

(i) This project will maximize benefits by providing more continuous habitat diversity within the South Platte River in Denver and build on the work CWCB has funded associated with this project over the last three years.

(j) CWCB participated in the development of the RISO plan and design of recreation and habitat improvements (at Grant Frontier, Pasquinel's Landing and Overland Pond parks). The Greenway Foundation has successfully applied WSRA Grant money to associated projects along the river corridor, and this effort is complimentary to the Colorado Healthy Rivers Fund and other efforts undertaken by the CWCB Stream and Lake Protection Section, and the Watershed and Flood protection Section.

**Funding Summary/Matching Funds:**

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
WSRA Metro Account	\$150,000	n/a	\$150,000
WSRA Statewide Account	\$300,000	n/a	\$300,000
City & Co of Denver & Urban Drainage & Flood Control District	<u>\$450,000</u>	<u>\$0</u>	<u>\$450,000</u>
<b>Total Project Costs</b>	<b>\$900,000</b>	<b>\$0</b>	<b>\$900,000</b>

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.

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**Agenda Item 13(i)**

**Applicant & Program Sponsor:** Elbert County

**Water Activity Name:** Rural Elbert County Groundwater-Level Monitoring Network

**Water Activity Purpose:** Needs Assessment Study

**County:** Elbert

**River Basin:** South Platte

**Water Source:** Groundwater

**Total Amount Requested:** \$114,500

**Source of Funds:** \$12,000 Metro Account; \$6,000 South Platte Basin Account; and \$96,500 Statewide Account

**Matching Funds:** Basin Account Matches (\$18,000) = 15.7% of total amount request  
Basin Account & Applicant Match (\$165,500) = 144.5% of total amount request  
Applicant Match (cash & in-kind: \$147,500) = 56.3% of total project costs (\$262,000)  
(refer to *Funding Summary/Matching Funds*)

<b>Staff Recommendation:</b>
Staff recommends approval of up to \$12,000 from the Metro Account; \$6,000 from the South Platte Basin Account; and \$96,500 from the Statewide Account to fund the study titled: Elbert County Groundwater-Level Monitoring Network.

**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. A detailed program to monitor groundwater levels in the Denver Basin aquifers throughout the county is needed to assist the Elbert County Board of Commissioners with making informed policy decisions about limited groundwater resources.

The objectives of the study are to establish a well network for long-term monitoring of groundwater levels in the Denver Basin aquifers throughout Elbert County and to use the network to collect frequent groundwater-level data. The network will utilize about 30 existing wells and will include wells in each of the Denver Basin aquifer units--the Dawson, Denver, Arapahoe, and Laramie-Fox Hills aquifers. Groundwater levels will be measured bi-monthly in all wells, and a portion of the wells will be instrumented with pressure transducers and data logger to record more frequent water levels. Funds from this grant will be used in 2014 and 2015

to design the well network, establish the sites as monitoring locations, and initiate groundwater level monitoring which will run through 2018. These frequent water-level measurements will be used to describe seasonal and long-term water-level trends in the Denver Basin aquifers within Elbert County and to characterize groundwater-level changes across the county.

**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:**

Tier 1: (a) The water activity addresses multiple needs and interests by examining groundwater levels that could affect M&I and agricultural uses within the Metro, South Platte and Arkansas Basins. Data provided through this study is needed to support improved policy development, contributing to more efficient uses of water. A better understanding of these levels can also help protect and enhance environmental and recreation objectives within the Basins. The project is supported by both the Metro and South Platte Basin Roundtables.

(b) The water activity has committed support from the US Geological Survey, the Kiowa Conservation District, and the Town of Elizabeth. Additional entities represented in the application include the US Geological Survey, the State of Colorado and Elbert County. The project fosters cooperation among water interests in quantifying the M&I gap, and will provide empirical data to support water users and policy makers in planning for future demands.

(c) The data collected will support multiple purposes, including compact compliance needs as identified in the SWSI 2010 Report, and reflected in the needs assessments of all Front Range Roundtables. Better policy development supports SWSI 2010 findings to pursue projects that benefit consumptive water users and riparian environments, and helps capitalize on the environmental and recreational benefits derived from more efficient water management. Additionally, the project supports the following defined concerns addressed in SWSI 2010:

- Encourages projects addressing multiple purposes
- Utilizes existing funding opportunities to meet consumptive & nonconsumptive water supply needs
- Fosters cooperation among water interests within and between basins
- Addresses concerns in addressing the M&I gap
- Supports efforts to meet non-consumptive water needs
- Helps meet agricultural water needs by incorporating and supporting the implementation of multi-purpose agricultural water supply projects

Tier 2: (d) Without the grant funding requested, the project cannot accomplish the comprehensive data collection effort across Elbert County necessary to meet the goals and objectives.

(e) Funding from Statewide Funds, as well as federal monies (\$82,600 from the USGS), allows this project to be as comprehensive as it must be to produce a significant impact on the region's water future. The amount of matching funds coordinated by the applicant and secured from federal agencies demonstrates a significant and appropriate commitment to the project.

Tier 3: (f) The water activity will provide data crucial to policy decisions and assist the assessment of the deep groundwater aquifers and their capacity to meet the needs of multiple water uses, including agriculture, open space, M&I needs, environmental and recreational uses, risk management requirements, compact compliance needs, as well as the future needs within Elbert County.

(g) The assessment of deep groundwater supply bears on the water management decisions affecting compact compliance. The future availability of groundwater supply is a factor in determining compact entitlements, water conservation strategies, and associated water supply development decisions.

(h) The project is aimed at developing a better understanding of available water resources, which helps determine an appropriate combination of strategies to preserve threatened and endangered species.

(i) The water project will provide a high level of benefit to Colorado by guiding policy decisions toward a sustainable water future for the region, and complement CWCB efforts to identify human, environmental and recreational water needs, and to evaluate the water supplies in each basin.

(j) The project is well-aligned with other CWCB-funded efforts in addressing multiple issues of local, basin and statewide interest.

#### **Funding Overview/Matching Funds:**

	<b><u>Cash</u></b>	<b><u>In-kind</u></b>	<b><u>Total</u></b>
WSRA Statewide Basin Account	\$96,500	n/a	\$96,500
WSRA Metro Account	\$12,000	n/a	\$12,000
WSRA South Platte Basin Account	\$6,000	n/a	\$6,000
USGS Cooperative Water Program	\$55,700	\$0	\$55,700
CWCB Severance Tax Grant	\$49,900	\$0	\$49,900
USGS Match of CWCB Severance Tax Grant	\$26,900	\$0	\$26,900
Elbert County Volunteers	\$0	\$15,000	\$15,000
<b>Total study costs</b>	<b>\$247,000</b>	<b>\$15,000</b>	<b>\$262,000</b>

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.

**Water Supply Reserve Account – Grant and Loan Program**  
**Water Activity Summary Sheet**  
**September 11-12, 2014**  
**Agenda Item 13(k)**

**Co-Applicants:** South Ledge Ditch Company and Meadow Ditch Company (Ditch Companies)

**Program Sponsor:** Meadow Ditch Company

**Water Activity Name:** Meadow and South Ledge Diversion Reconstruction and Fish Passage Demonstration Project

**Water Activity Purpose:** Non-consumptive, Agricultural, and Educational (multi-objective) Structural Water Project

**County:** Boulder

**Drainage Basin:** South Platte

**Water Source:** South St. Vrain Creek

**Total Amount Requested:** \$170,000

**Source of Funds:** \$4,250 Metro Account; \$4,250 South Platte Basin Account; and \$161,500 Statewide Account

**Matching Funds:** Basin Account Matches (\$8,500) = 5% of total grant request  
Basin Account & Applicant Match (cash & in-kind: \$189,700) = 112% of total grant request  
Applicant Match (\$181,200) = 52% of total project costs (\$351,200)  
(refer to *Funding Summary/Matching Funds*)

<b>Staff Recommendation</b>
Staff recommends conditional approval (contingent upon the applicant successfully addressing concerns specified below in the <i>Issues/Additional Needs</i> section) of up to \$4,250 from the Metro Account; \$4,250 from the South Platte Basin Account; and \$161,500 from the Statewide Account to help fund the project titled: Meadow and South Ledge Diversion Reconstruction and Fish Passage Demonstration Project.

**Water Activity Summary:**

The Meadow and South Ledge Ditch Companies on South St. Vrain Creek in Boulder County experienced significant damage as a result of the catastrophic floods of September 2013. This project proposes to rebuild both irrigation diversion structures with consideration for the aquatic environment, while delivering a full decree of irrigation water. Further, it is hoped this project design can serve as a model for other ditch companies, and demonstrate how fish passage can be constructed maximizing the efficiency of the diversion, and minimizing cost.

WSRA funds will contribute toward the costs of data collection, engineering design, permitting, construction, outreach, and monitoring. The South Platte Basin Nonconsumptive Needs Assessment (2009) identified South St. Vrain Creek as a “Recreational Focus Area.” This project will also help connect South St. Vrain Creek with downstream segments identified as “Environmental and Recreational Focus Areas” containing State identified fish species of concern. This project further supports the St. Vrain Creek Watershed Master Plan objectives, promoting natural channel design, sediment transport, and fish passage.

Reconstruction of the Meadow and South Ledge ditch structures with consideration for the aquatic environment is supported by a diversity of stakeholders including: Boulder County Parks and Open Space, the

City of Longmont, St. Vrain Creek Coalition, St. Vrain Chapter of Trout Unlimited, Colorado Parks and Wildlife, and the US Fish and Wildlife Service.

The primary objectives of the project are as follows:

- Reconstruction of the Meadow and South Ledge diversion structures to provide a full decree of agricultural irrigation water;
- Support the St. Vrain Creek Watershed Master Plan objectives, promoting overall watershed health by incorporating natural channel design, improved sediment transport, and fish passage;
- Provide long-term, sustainable infrastructure improvements in a critical Recreational Focus Area as defined by the South Platte Nonconsumptive Needs Assessment (2009); and
- Act as a Statewide demonstration project to showcase how fish passage can be constructed economically and effectively.

**Discussion:**

CWCB staff continues to encourage multi-objective design in post September 2013 flood recovery projects. This includes diversion reconstruction designed to be more flood resilient. The scope of work that CWCB developed for September 2013 flood recovery coordination included task to “develop a strategy for multi-objective diversion design and construction”. The Meadow and South Ledge Diversion Reconstruction and Fish Passage Demonstration Project is a direct result of this effort.

**Issues/Additional Needs:**

- The ditch companies should work with CWCB Staff to ensure that geomorphic monitoring conforms to CWCB Measurable Results Program criteria.
- All proposed river channel work shall conform to the CWCB Rules and Regulations for Regulatory Floodplains in Colorado.

**Threshold and Evaluation Criteria:**

The application meets all four Threshold Criteria.

**Tier 1-3 Evaluation Criteria:**

Application satisfies Evaluation Criteria.

**Funding Overview/Matching Funds:**

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
WSRA Statewide Account	\$161,500	n/a	\$161,500
WSRA Metro Account	\$4,250	n/a	\$4,250
WSRA South Platte Basin Account	\$4,250	n/a	\$4,250
USFWS	\$120,000	n/a	\$120,000
South Ledge Ditch Company	\$5,000	\$15,000	\$20,000
Meadow Ditch Company	\$5,000	\$15,000	\$20,000
6 Project Partners (refer to application)	<u>\$0</u>	<u>\$21,200</u>	<u>\$21,200</u>
<b>Total Project Funds Available/Costs</b>	<b>\$300,000</b>	<b>\$51,200</b>	<b>\$351,200</b>

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**  
**September 11-12, 2014**  
**Agenda Item 13(I)**

**Applicant:** Colorado Climate Center

**Program Sponsor:** Colorado State University

**Water Activity Name:** Re-establishment of Lysimeters in North Park to Determine High Altitude, Hay Meadow Crop Coefficients.

**Water Activity Purpose:** Agricultural Needs Assessment

**County:** Jackson

**River Basin:** North Platte

**Water Source:** North Platte

**Total Amount Requested:** \$194,102

**Source of Funds:** \$97,051 North Platte Basin Account; \$97,051 Statewide Account

**Matching Funds:** Basin Account Match (\$97,051) = 50% of total grant request  
Basin Account & Applicant Match (\$134,647) = 69% of total grant request  
Applicant Match (\$37,596) = 16% of total project costs (\$231,698)  
(refer to *Funding Summary/Matching Funds*)

<b>Staff Recommendation:</b>
Staff recommends approval of up to \$97,051 from the North Platte Basin Account; and \$97,051 from the Statewide Account to help complete the project titled: Re-establishment of Lysimeters in North Park to Determine High Altitude, Hay Meadow Crop Coefficients.

**Water Activity Summary:** The funding requested is to further study crop consumptive use to provide additional information for the North Platte Basin Needs Assessment as well as various educational opportunities focused on agricultural water use, weather and climate. The project aims to re-establish lysimeter measurements in the high altitude, hay meadow environment of North Park. Although lysimeters have been historically operated in the basin, the data collected has been deemed questionable due to site exposure, infrequent watering and possible equipment failures. The project will build upon 5 years of data from three existent weather stations by providing ongoing support for the weather stations and installing and running two new lysimeters. Once fully installed the system is almost completely automated, and will mimic operations in the hay meadows (irrigation and cutting) to get an actual crop consumptive use to be used to calculate crop coefficients. The project will provide quantitative assessments of irrigated hay meadow consumptive use and its relationship to local weather conditions. The bulk of project costs will be installation and operation of the lysimeters.

**Discussion:**

WSRA Grant funds of \$100,694 were expended from 2008 through 2014 to fund an earlier attempt to quantify crop consumptive use.

**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:**

Tier 1: (a) The project is supported by the North Platte Basin Roundtable.

(b) The water activity has committed support from the Division of Water Resources Division 6 Office. The entities represented in the application include Colorado State University (CSU) and CoAgMet. The water activity is effective in addressing intrabasin or interbasin needs because the Yampa-White roundtable has a similar project to quantify consumptive use near Hayden. The combined results will cover a range of elevations in the two basins and could possibly be extended to other Colorado basins.

(c) This project will provide quantitative assessments of irrigated hay meadow consumptive use and its relationship to local weather conditions. This type of information is essential for the basin's on-going needs assessment and to better quantify consumptive water needs.

Tier 2: (d) This project will likely not be funded by any other entity but the Roundtable and Statewide funds. If this new lysimeter technology works as expected, other basins could benefit from this reach and perhaps invest in the technology.

(e) 16% of the total grant request has been contributed through the CSU's Unrecovered Indirect Costs.

Tier 3: (f) The project will help sustain agriculture in the basin by better understanding the crop water use requirements from irrigated hay meadows in North Park.

(g) This project has the potential to impact the interstate compact on the North Platte by quantifying actual crop consumptive use in the North Platte Basin. Once a better handle on crop consumptive use is understood, it may have an impact on the compact with Wyoming about the consumptive use of irrigated hay meadows in the Basin.

(h) n/a (not addressed)

(i) This project has a high cost/benefit for Colorado because lysimeter studies have been performed in the past, however methods and systems differ. The Rocky Ford

lysimeter that CSU installed was very expensive and requires a full-time staff person to operate and maintain, which is not feasible for many basins. If this smaller, lower cost system is proven to give reliable data, the state can benefit from this knowledge by using this system across Basins to quantify consumptive use. Additionally, if lysimeters cannot be funded in other Basins, relationships between the CoAgMet stations can be assessed and perhaps aid in transferring results based on the weather data and reported reference evapotranspiration.

(j) n/a

**Funding Overview/Matching Funds:**

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
WSRA Statewide Basin Account	\$91,051	n/a	\$91,051
WSRA Arkansas Basin Account	\$91,051	n/a	\$91,051
CSU Cost-share	<u>\$37,596</u>	<u>\$0</u>	<u>\$37,596</u>
<b>Total Project Costs</b>	<b>\$231,698</b>	<b>\$0</b>	<b>\$231,698</b>

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.

**Water Supply Reserve Account – Grant and Loan Program**  
**Water Activity Summary Sheet**  
**September 11-12, 2014**  
**Agenda Item 13(m)**

**Applicant:** Colorado Rio Grande Restoration Foundation

**Water Activity Name:** Rio Grande Basin Implementation Plan – Phase 2

**Water Activity Purpose:** All inclusive

**River Basin:** Rio Grande

**Water Source:** Rio Grande River and tributaries

**Total Amount Requested:** \$115,000

**Source of Funds:** \$76,000 Rio Grande Basin Account; \$39,000 Statewide Account

**Matching Funds:** n/a

<b>Staff Recommendation:</b>
Staff recommends approval of up to \$76,000 from the Rio Grande Basin Account, and \$39,000 from the Statewide Account and to help complete the project titled: Rio Grande Basin Implementation Plan – Phase 2.

**Water Activity Summary:** WSRA funds are needed to begin Phase 2 of the Rio Grande Basin Implementation Plan that conforms to the Basin Implementation Plan Guidance Document authored by DiNatale Water Consultants, with the Colorado Rio Grande Restoration Foundation acting as the applicant and fiscal agent on behalf of the Rio Grande Basin Roundtable. Additional funds are needed to expand upon future goals and needs of the Basin in addressing the Basin's long-term water issues.

The following deliverables associated with the revised scope of work include:

1. Finalized Rio Grande basin Water Plan
2. Rio Grande Basin Water Plan Executive Summary
3. Rio Grande Basin Planning Model with improved calibration, additional climate change results, and documentation that can be used to evaluate projects and methods
4. Up-to-date projects and methods project sheets complete with project scope and funding needs for identified projects
5. 6 color-printed copies of the Final Plan
6. 100 color-printed copies of the Executive Summary with an electronic copy of the Plan on a CD

**Discussion:**

No further discussion is needed.

**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:**

n/a

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.

**Water Supply Reserve Account – Grant and Loan Program**  
**Water Activity Summary Sheet**  
**September 11-12, 2014**  
**Agenda Item 13(n)**

**Applicant & Program Sponsor:** Harris Water Engineering, Inc.

**Water Activity Name:** Southwest Basin Implementation Plan – Phase 2

**Water Activity Purpose:** All inclusive

**River Basin:** Southwest

**Water Source:** Southwest rivers and tributaries

**Total Amount Requested:** \$36,000

**Source of Funds:** \$24,000 Southwest Basin Account; \$12,000 Statewide Account

**Matching Funds:** n/a

<b>Staff Recommendation:</b>
Staff recommends approval of up to \$24,000 from the Southwest Basin Account; and \$12,000 from the Statewide Account to help complete the project titled: Southwest Basin Implementation Plan- Phase 2.

**Water Activity Summary:** WSRA funds are needed to begin Phase 2 of the Southwest Basin Implementation Plan that conforms to the Basin Implementation Plan Guidance Document authored by Harris Water Consultants, who are acting as the applicant and program sponsor (fiscal agent) on behalf of the Southwest River Basin Roundtable. Proposed Phase 2 Tasks include: Update and organize data included in draft BIP (Phase 1); Review, discuss and finalize Final BIP; Investigate identified supply gaps from Phase 1; Continue education and outreach; and Integrate Final Plan with CWCB work and products.

**Discussion:**

No additional discussion is needed.

**Issues/Additional Needs:**

No additional issues or needs were identified.

**Threshold and Evaluation Criteria:**

The application meets all four Threshold Criteria.

**Tier 1-3:**

n/a

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.

**Water Supply Reserve Account – Grant and Loan Program**  
**Water Activity Summary Sheet**  
**September 11-12, 2014**  
**Agenda Item 13(o)**

**Applicant & Program Sponsor:** Trout Unlimited

**Water Activity Name:** Redburn Ranch Diversion Dam Project

**Water Activity Purpose:** Nonconsumptive & Agricultural Implementation

**County:** Montezuma

**Drainage Basin:** Southwest

**Water Source:** Dolores River

**Total Amount Requested:** \$148,500

**Source of Funds:** \$50,000 Southwest Basin Account; \$98,500 Statewide Account

**Matching Funds:** Basin Account Match (\$50,000) = 34% of total grant request  
Basin Account & Applicant Match (cash & in-kind: \$211,000) = 142% of total grant request  
Applicant Match (cash & in-kind: \$161,000) = 52% of total project costs  
(refer to *Funding Summary/Matching Funds*)

<b>Staff Recommendation:</b>
Staff recommends approval of up to \$50,000 from the Southwest Basin Account and \$98,500 from the Statewide Account to help fund the project titled: Redburn Ranch Diversion Dam Project.

**Water Activity Summary:** The Redburn Ranch is a large farm and ranch operation mid-way up the river between Dolores and Rico. The ranch was placed in a conservation easement with Montezuma Land Conservancy in 2006. The Ranch maintains a large cobble push-up dam that spans the main stem of the Dolores and requires repair with heavy equipment every year after spring runoff. This dam blocks fish passage for the majority of the year, except in the early spring when it is degraded by high flows until it is rebuilt again after the high water recedes. Fry (young fish) have been observed being stopped from moving downstream by the dam on multiple occasions and it is a barrier to fish migration upstream as well. At low water, the permeability of the cobble dam makes it difficult for the ranch to access its full water right, often requiring plastic to be placed on the face of the dam.

Trout Unlimited (TU) has been in discussions with the ranch manager for over a year and has completed an initial survey and a design, and has estimated work for three possible options. The dam is located on Forest Service Land just upriver from the Ranch. Forest Service personnel have been involved in the project from the beginning, support the project, and are helping to ensure any required analysis and permitting is streamlined.

The implementation of the project requires the replacement of the current cobble pushup dam with a series of four stepped large rock cross vein weirs capable of passing flood flows and sediment loads, allowing for fish and safe boat passage while ensuring the landowner's reliable access to their full water right, even at low water. The project also requires re-grading of the channel and importing and placing large cobble fill between the rock weirs to ensure channel stability. The head gate and

associated structure has begun to settle and needs to be reconstructed to work with the new diversion system.

**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:**

- Tier 1: (a & b) This activity addresses consumptive needs by improving agricultural water deliveries and addresses nonconsumptive needs by improving fish connectivity and passage, and providing safe recreational boat passage. This activity also addresses the needs of multiple interests, such as agricultural interests of Redburn Ranch, recreational interests of Trout Unlimited, and recreational and environmental interest of the USFS. As funding contributors, the Natural Resource Conservation Service, the Southwestern Water Conservation District, the USFWS, Colorado Parks and Wildlife, and GOCO exhibit their support of this project.
- (c) This activity addresses the environmental and recreational gap as identified in the 2010 Southwest Basin Report Basinwide Consumptive and Nonconsumptive Water Supply Needs Assessment, and the 2014 Southwest Basin Implementation Plan.
- Tier 2: (d) The combined WSRA funding from the Statewide and the Basin accounts makes up half of the anticipated project budget and the largest single source of funds. Without the combined WSRA funds, the group has no other funding source to leverage the public and private funding sources against, and the project could not be completed.
- (e) 52% non-WSRA match provided by the applicant and 3<sup>rd</sup> parties represents a significant and appropriate commitment to the project.
- Tier 3: (f) The Redburn Ranch project helps sustain agriculture & open space by enhancing the viability of a working ranch and farm enterprise. This activity addresses the environmental and recreational gap by improving fish connectivity and passage, and providing safe recreational boat passage.
- (g) n/a
- (h) Project implementation may assist in the recovery of the blue headed sucker, a species of concern in Colorado.
- (i) A 52% non-WSRA or match provided by the applicant and 3<sup>rd</sup> parties provides a high level of benefit to Colorado.

(j) This activity compliments CWCB's Healthy Rivers Funds, and efforts by CWCB's Lake and Stream Protection Section.

**Funding Summary/Matching Funds:**

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
WSRA Southwest Basin Account	\$50,000	n/a	\$50,000
WSRA Statewide Account	\$98,500	n/a	\$98,500
Southwest Water Conservation District	\$40,000	\$0	\$40,000
Natural Resources Conservation Service	\$40,000	\$0	\$40,000
USFWS	\$25,000	\$0	\$25,000
Colorado Parks and Wildlife	\$10,000	\$0	\$10,000
GOCO	\$15,000	\$0	\$15,000
Trout Unlimited	\$25,000	\$2,000	\$27,000
Redburn Ranch	<u>\$1,000</u>	<u>\$3,000</u>	<u>\$3,000</u>
<b>Total Study Costs</b>	<b>\$304,500</b>	<b>\$5,000</b>	<b>\$309,500</b>

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**  
**September 11-12, 2014**  
**Agenda Item 13(p)**

**Applicant & Program Sponsor:** Thompson-Epperson Ditch Company

**Water Activity Name:** Thompson-Epperson Ditch Stabilization

**Water Activity Purpose:** Agricultural Implementation Project

**County:** La Plata

**River Basin:** Southwest

**Water Source:** Pine River

**Total Amount Requested:** \$30,000 Southwest Basin Account

**Matching Funds:** Total combined cash & in-kind match of \$60,000, which is 200% of the total grant request (refer to *Funding Overview/Matching Funds*).

<b>Staff Recommendation</b>
Staff recommends approval of up to \$30,000 from the Southwest Basin Account to help complete the project titled: Thompson-Epperson Ditch Stabilization.

**Water Activity Summary:** The Thompson-Epperson Ditch began delivering water in 1888 and is a mutual ditch company with 104 different share holders. The ditch diverts approximately 36 cfs of irrigation water out of the Pine River and serves approximately 2,200 acre feet west and south of Bayfield, Colorado. In 2014, landslide damage presented the first major threat to the ditch, requiring emergency measures essential to providing the usual irrigation water. The damage was costly and complex but repairable because the bank below the ditch, not the ditch itself, gave away, making it possible to lay pipe in the existing ditch channel. About 600 feet of the ditch north of the stabilized section is also on the same steep bank, and if drought continues, the potential for a similar landslide is likely to result. Funds requested for this project will be used to purchase 600 ft of 5 ft pipe to be installed in a section of the Thompson-Epperson Ditch to avoid leakage, collapse and liability. Installing 600 ft of pipe north of the stabilized section will preserve the ditch and the bank, while avoiding seepage down to the shale layers that can trigger another landslide. This improvement will allow for a debris screen at the opening that will be accessible for cleaning and will not destroy an embankment from back-up water or allow any person or animal entry into the pipe. Project results will help to assure delivery of irrigation water from the ditch to benefit agriculture and the economy.

**Discussion:**

No further discussion is required.

**Issues/Additional Needs:**

No issues or additional have been identified.

**Threshold and Evaluation Criteria:**

The application meets all four Threshold Criteria.

**Tier 1-3 Evaluation Criteria:**

n/a

**Funding Overview/Matching Funds:**

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
WSRA Southwest Basin Account	\$30,000	n/a	\$30,000
Southwestern Water Conservation District	\$30,000	\$0	\$30,000
Thompson-Epperson Ditch Co.	<u>\$30,000</u>	<u>\$0</u>	<u>\$30,000</u>
<b>Total Project Costs</b>	<b>\$90,000</b>	<b>\$0</b>	<b>\$90,000</b>

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.



**Water Supply Reserve Account – Grant and Loan Program**  
**Water Activity Summary Sheet**  
**September 11-12, 2014**  
**Agenda Item 13(q)**

**Applicant:** Water Preservation Partnership

**Program Sponsor:** Colorado State University

**Water Activity Name:** Economic Analysis and Design of Policies to Reduce Colorado's Groundwater Use in the Northern High Plains Ground Water Basin

**Water Activity Purpose:** Agricultural Study

**County:** Counties wholly, or partially within boundaries of the Republican River Basin

**Drainage Basin:** South Platte (Republican River Basin)

**Water Source:** Republican River and tributaries

**Total Amount Requested:** \$159,882

**Source of Funds:** \$7,994 South Platte Basin Account; \$151,888 Statewide Account

**Matching Funds:** Basin Account Match (\$7,994) = 5% of total grant request  
Basin Account & Applicant Match (cash: \$56,430) = 35% of total grant request  
Applicant Match (cash: \$48,436) = 24% of total project costs (\$208,318)  
(refer to *Funding Summary/Matching Funds*)

<b>Staff Recommendation:</b>
Staff recommends conditional approval (contingent upon the applicant or program sponsor satisfying concerns addressed in the <i>Issues/Additional Needs</i> section of this summary) of up to \$7,994 from the South Platte Basin Account; and \$151,888 from the Statewide Account to help fund the study titled: Economic Analysis and Design of Policies to Reduce Colorado's Groundwater Use in the Northern High Plains Ground Water Basin.

**Water Activity Summary:** The purpose of this project is to collect, develop, and disseminate the information necessary to promote reductions in groundwater use and to help in the development of policies that would be voluntarily adopted by the various groundwater districts to achieve pumping goals.

Colorado residents in the Northern High Plains Ground Water Basin (NHPGWB) face significant challenges related to groundwater use in the basin. Groundwater pumping within the basin currently exceeds recharge by close to 400,000 acre-feet per year, a deficit that cannot be sustained. Realizing the potentially devastating social and economic impacts associated with continued pumping at these levels, representatives from each of the basin's eight groundwater management districts formed the Water Preservation Partnership (WPP). The challenges facing the WPP are determining (1) by how much pumping should be reduced and (2) which policies should be used to achieve the desired reductions. The WPP has identified a lack of information surrounding the economic impacts of different levels of reductions, the effectiveness of different policies, and the preferences of the producers within each of their districts as the immediate barriers preventing the adoption of policy measures.

The primary goal of this project is to provide the WPP with the information needed to develop, and get support for long-term solutions to the over-pumping problem, while at the same time promoting wise water use in the short-run through the targeted dissemination of information about the problem and strategies for water conservation best management practices. A reduction in pumping is inevitable, either as wells begin to run dry due to continued over pumping or as a result of policies developed as part of a coordinated effort from pumpers in the area that is designed to promote the long-term sustainable use of the aquifer while minimizing the economic impacts of the reductions. Again, the question is by how much and by what means should the reductions be achieved. Achieving this goal involves four interrelated components including: (1) the development of a dynamic, regional hydrologic-economic model capable of modeling the impacts of alternative pumping policies on producers in the area, as well as identifying the broader economic impacts of these policies; (2) the dissemination of outreach materials designed to (a) educate groundwater users about the state of groundwater pumping, (b) provide them information about best management practices, and (c) inform them of the modeling results; (3) the implementation of a survey designed to illicit producer preferences towards different policies; and (4) the design of policies utilizing the economic information and survey responses.

**Discussion:**

No further discussion is required.

**Issues/Additional Needs:**

CWCB staff has requested that the applicant and program sponsor obtain additional letters of support, or financial contributions from local entities as a condition of approval.

**Threshold and Evaluation Criteria:**

The application meets all four Threshold Criteria

**Tier 1-3 Evaluation Criteria:**

Tier 1: (a) Agriculture serves as the single largest user of water in the basin, however, municipal and other industrial users of water also compete for this resource. Reducing agricultural water use will directly benefit these other interests. In addition, because of agriculture's importance to the local economy limiting the impacts of reductions in water use on the agricultural sector will benefit other linked industries both within and outside of the immediate area.

(b) The Water Preservation Partnership (WPP) is a grassroots group representing all of the groundwater management districts in the Northern High Plains Ground Water Basin (NHPGWB). This includes all of the groundwater management districts located within the Republican River Basin and one outside district.

(c) It is hoped that project findings may assist in a reduction to the potential changes in irrigated acres in the Republican River Basin as identified in the 2010 South Platte Basin Basinwide Consumptive and Nonconsumptive Water Supply Needs Assessments.

Tier 2: (d) n/a (not addressed)

(e) The project team is committing to match approximately \$48,436 (24% of total study costs) in additional salary/fringe and indirect over the course of the project. This time is

in addition to the significant time donated by the project team leading up to the proposal as part of presentations and meeting/organizing focus groups.

Tier 3: (f) A key component of the project will be identifying policies that will help the districts achieve desired levels of reduction in a way that preserves agriculture and minimizes the direct and indirect regional economic impacts of reduced pumping.

(g) n/a

(h) n/a

(i) Previous research suggests that the potential costs savings from well-designed policies can be large. For example, Kuwayama and Brozovic (2013) showed the potential costs savings of properly designed ground water policies to be in the millions. It is also noted that the requested amount is significantly less than similar projects in surrounding states yet will yield similar deliverables. This is because the project builds off of the hydrologic work by Slattery and the WPP/CSU have agreed to contribute more than the minimum amount of matching funds. In addition, this study may provide a template for future analysis in other geographic areas of the state.

(j) n/a

#### **Funding Summary/Matching Funds:**

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
WSRA South Platte Basin Account	\$7,994	n/a	\$7,994
WSRA Statewide Account	\$151,888	n/a	\$151,888
Colorado State University	<u>\$48,436</u>	<u>\$0</u>	<u>\$48,436</u>
<b>Total Study Costs</b>	<b>\$208,318</b>	<b>\$0</b>	<b>\$208,318</b>

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**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.



Basin	Applicant	Name of Water Activity	CWCB Meeting	Basin Account Approved	Statewide Amount Approved	Total Request	Type of Water Activity	PM	Actions/Comments/Notes
<b>2014 July Board Approvals</b>									
Gunnison	Coal Creek Watershed Coalition	McCormick Ditch Reconstruction	Jul-14	\$21,346	\$0	\$21,346	Agricultural	Craig Godbout	
Gunnison	Trout Unlimited	Upper Ohio Creek Flow Restoration	Jul-14	\$6,000	\$0	\$6,000	Agricultural	Craig Godbout	
Yampa/White	Rio Blanco Water Conservancy District	White River Storage Study - Phase 2	Jul-14	\$97,750	\$97,750	\$195,500	Municipal & Industrial	Brent Newman	
Yampa/White	Colorado Water Trust	White River-Highland Ditch Diversion & Headgate Redesign	Jul-14	\$30,000	\$0	\$30,000	Agricultural	Craig Godbout	
<b>2014 May Board Approvals</b>									
South Platte	Green Ditch Company	Green Ditch Rehabilitation and Fish Passage Project	May-14	\$25,000	\$220,000	\$245,000	Agricultural	Craig Godbout	
Southwest	Geothermal Greenhouse Partnersip, Inc.	Geothermal Greenhouse Partnership Project	May-14	\$25,000	\$50,000	\$75,000	Agricultural	Craig Godbout	
Southwest	Montezuma County	McElmo Flume Rehabilitation Project	May-14	\$20,000	\$0	\$20,000	Education	Craig Godbout	
Southwest	Red Mesa Reservoir and Ditch Company	Red Mesa Feasibility Study	May-14	\$30,000	\$0	\$30,000	Agricultural	Craig Godbout	
Yampa/White	Colorado River Water Conservation District	Supplemental Funding - Yamap BIP	May-14	\$60,000	\$0	\$60,000		Brent Newman	7/16/14 Request to Brent for revised SOW/Budget/Schedule from grantee. Add'l funding to be added to original contract and combine database record
<b>2014 March Board Approvals</b>									
Gunnison	Gunnison, City of	Gunnison River Riparian and Diversion Restoration Project	Mar-14	\$45,540	\$400,752	\$446,292	Other	Chris Sturm	
<b>2013 September Board Approvals</b>									
Metro	The Greenway Foundation	Grant-Frontier Park West Bank Riparian Floodplain Design and Construction Project	Sep-13	\$100,000	\$250,000	\$350,000	Needs Assessment	Chris Sturm	Staff recommends apprvl up to \$250,000 frm SW & \$100,000 frm Metro Basin.  4/22/14 Per C.Sturm, grantee must have SOW by 5/1/14 for FY14 contract otherwise not till FY15. Updated Lat/Long field 10/22/2013 Erik S.
Metro	Plum Valley Heights Sub-District	Plum Valley Heights Water Supply Pipeline	Sep-13	\$50,000	\$0	\$50,000	Municipal & Industrial	Craig Godbout	4/23/14 Email from Alan Pouge -"We will not be under contract by 15 May, so delaying the funding until mid-July is not a problem. However, we want to make sure we don't do anything to jeopardize the grant, so please let us know if there is any additional information that you need". Updated Lat/Long field 10/22/2013 Erik S.
<b>2013 March Board Approvals</b>									
Colorado	Mr. William Grange	Grace and Shehi Diversion Rehabilitation Project (Phase I & II – Alternatives Evaluation & Detailed Design)	Mar-13	\$40,500	\$0	\$40,500	Agricultural	Jacob Bornstein	4/22/14 Review project file for potential contracting - Need W-9; Ins., CGS, New schedule; revised budget reflect \$40,500. Updated Lat/Long fields 10/17/2013 Erik S.
<b>2011 July Board Approvals</b>									
Southwest	Pagosa Lake Property Owners Association	Pagosa Lakes Area Village Lake Dam Outlet Pipe Repair Project	Jul-11	\$25,000	\$0	\$25,000	Municipal & Industrial	Kirk Russell	
<b>2011 May Board Approvals</b>									
Colorado	Orchard Mesa Irrigation District	Canal #1 Check Structure Pilot Project at Dalton, Kiefer & Springer Properties	May-11	\$25,212	\$0	\$25,212	Agricultural	Jacob Bornstein	
<b>2010 July Board Approvals</b>									
South Platte	Northern Colorado Water Conservancy District	Data Logger and Telemetry Installation Project	Jul-10	\$46,000	\$0	\$46,000	Agricultural		
<b>2010 May Board Approvals</b>									



Basin	Applicant	Name of Water Activity	CWCB Meeting	Basin Account Approved	Statewide Amount Approved	Total Request	Type of Water Activity	PM	Actions/Comments/Notes
Gunnison	Lake San Cristobal Water Activity Enterprise (LSCWAE)	Lake San Cristobal Outlet Structure	May-10	\$150,000	\$0	\$150,000	Municipal & Industrial	Kirk Russell	
<b>2009 July Board Approvals</b>									
Southwest	Sawpit, Town of	Domestic Water System Construction	Jul-09	\$25,000	\$0	\$25,000	Municipal & Industrial	Anna Mauss	

## WSRA IN PROGRESS PROJECTS

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Basin	Applicant	Name of Water Activity	CWCB Meeting	Basin Account Approved	Statewide Amount Approved	Total Request	Type of Water Activity	Number	Project Expiration Date
Arkansas	Arkansas Groundwater Users Association (AGUA)	A Multi-Media Program for Reporting Crop and Turf Water Use Estimates from the Colorado Agricultural Meteorological Network (CoAgMet)	May-11	\$9,394	\$37,577	\$46,971	Agricultural	13IBC000024	12/31/14
Arkansas	Trinidad, City of	North Lake Dam Rehabilitation Project	Mar-12	\$36,962	\$702,273	\$739,235	Municipal & Industrial	C150502	11/30/14
Arkansas	Pisgah Reservoir and Ditch Company	Mount Pisgah Dam/Wrights Reservoir Outlet Works Rehabilitation	Sep-12	\$25,000	\$136,345	\$161,345	Other	C150505	9/1/14
Arkansas	Upper Arkansas Water Conservancy District	Build, Assess, and Document Accounting and Administration Tools for Lease Following in the Arkansas River Valley	Sep-12	\$20,000	\$39,215	\$59,215	Agricultural	13IBC000017	1/31/15
Arkansas	Southeastern Colorado Water Conservancy District	Arkansas River Basin Implemenation Study	Mar-13	\$0	\$205,691	\$205,691	Other	C150541	7/31/14
Arkansas	Crowley County Board of Commissioners	Ordway Cattle Feeders Water Line Extension, Phase II	Mar-13	\$50,000	\$22,500	\$72,500	Agricultural	C150515	4/16/14
Arkansas	Rocky Mountain Field Institute	Bear Creek Sediment Mitigation Project (Phase I)	Sep-13	\$15,000	\$85,000	\$100,000	Nonconsumptive	14IBC000031	6/30/15
Arkansas	Pikes Peak Regional Water Authority	Pikes Peak Regional Water Supply Infrastructure Study	Sep-13	\$25,000	\$50,000	\$75,000	Needs Assessment	14IBC000020	1/31/15
Arkansas	Lamar, City of - Wastewater Department	Lamar Raw Water Transmission Line Replacement Project	Sep-13	\$50,000	\$150,000	\$200,000	Municipal & Industrial	C150527	6/30/15
Arkansas	Pikes Peak Regional Water Authority	Arkansas Basin Implementation Plan; Basin Implementation Plan, Section 4.2 Watershed Health; Arkansas Basin Implementation Plan - SECTION 4.3 Conservation; Arkansas Basin Implementation Plan - SECTION 2.1 Non consumptive; 4.1 Education Participation & Outreach; 4.7 Nonconsumptive Projects & Methods	Nov-13	\$183,471	\$51,709	\$235,180	Other	C150545	12/31/14
Arkansas	Huerfano County Water Conservancy District	Red Wing Augmentation Facility	May-14	\$50,000	\$200,000	\$250,000	Other	C150551	12/31/16
Arkansas Basin Total Request				\$464,827	\$1,680,310	\$2,145,137			
Number of Projects			11						
Arkansas/South Platte/Metro	Water Environment Research Foundtion	Demonstration of Membrane Zero Liquid Discharge Process for Drinking Water Systems	Nov-13	\$100,000	\$699,967	\$799,967	Municipal & Industrial	C150456	9/30/14
Arkansas/South Platte/Metro Basin Total Request				\$100,000	\$699,967	\$799,967			
Number of Projects			1						
Colorado	Gypsum,Town of	L.E.D.E. Ditch and Reservoir Reconstruction	Sep-10	\$50,000	\$175,000	\$225,000	Municipal & Industrial	C150494	9/1/16
Colorado	Mesa Conservation District	Small Acreage Irrigation Audit Program	Mar-11	\$18,273	\$0	\$18,273	Agricultural	12IBC000001	6/30/14
Colorado	Colorado State University	Investigation of Water Savings, Water Quality benefits and Profitability of Sub Surface Drip on Alfalfa in Grand Valley	Mar-12	\$46,894	\$0	\$46,894	Agricultural	12IBC000019	4/30/16
Colorado	Robinson Ditch Company	Robinson Ditch Piping Improvements	Sep-12	\$60,000	\$0	\$60,000	Agricultural	13IBC000014	1/31/15
Colorado	Blue River Watershed Group	Tenmile Creek Restoration Project	Sep-12	\$17,500	\$332,500	\$350,000	Nonconsumptive	C150523	7/31/15
Colorado	Roaring Fork Water Conservancy	Crystal River Watershed – Assessment and Design of Restoration Projects	Sep-12	\$15,854	\$288,610	\$304,464	Nonconsumptive	C150520	1/31/17
Colorado	Tamarisk Coalition	Grand Valley Riparian Restoration Collaborative (GVRRC) Project	Sep-12	\$42,726	\$207,274	\$250,000	Nonconsumptive	C150513	1/30/17
Colorado	Grand County	Gore Canyon Whitewater Park at pumphouse - Colorado River	Jan-13	\$100,000	\$400,000	\$500,000	Nonconsumptive	C150518	8/31/15
Colorado	Irrigators of Lands in the Vicinity of Kremmling	Upper Colorado River Irrigation and Restoration Assessment Phase 1.	Sep-13	\$50,000	\$0	\$50,000	Agricultural	14IBC000029	3/31/15
Colorado	Colorado River Water Conservation District	Colorado Basin Implementation Plan	Sep-13	\$266,667	\$83,333	\$350,000	Needs Assessment	C150542	10/31/14
Colorado	Missouri Heights - Mountain Meadow Irrigation Company	Missouri Heights - Mountain Meadow Irrigation Company	Sep-13	\$50,000	\$0	\$50,000	Agricultural	OE14IBC000012	11/30/14
Colorado	Grand County Water & Sanitation District	Reservoir 2 Enlargement and Lining Project	Sep-13	\$41,620	\$165,000	\$206,620	Agricultural	C150544	6/30/16
Colorado	Snowmass Water and Sanitation District	Customer Meter Replacement Program	Nov-13	\$100,000	\$0	\$100,000	Municipal & Industrial	14IBC000028	12/31/14
Colorado	East Mesa Water Company	East Mesa Water Company Tunnel Bypass Pipeline	Mar-14	\$60,000	\$0	\$60,000	Agricultural	1400000121	5/16/15

## WSRA IN PROGRESS PROJECTS

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Basin	Applicant	Name of Water Activity	CWCB Meeting	Basin Account Approved	Statewide Amount Approved	Total Request	Type of Water Activity	Number	Project Expiration Date
Colorado Basin Total Request				\$919,534	\$1,651,717	\$2,571,251			
Number of Projects		14							
Colorado/Yampa/White	Grand Junction, City of	Energy Development Water Needs Assessment Study Update	Nov-13	\$50,000	\$0	\$50,000	Municipal & Industrial	14IBC000024	6/30/14
Colorado/Yampa/White Basin Total Request				\$50,000	\$0	\$50,000			
Number of Projects		1							
Gunnison	North Fork Water Conservancy District (NFWCD) and Fire Mountain Canal and Reservoir Company (FMCC)	Sedimentation Management Study For Paonia Reservoir - North Fork of the Gunnison	Sep-07	\$79,000	\$230,000	\$309,000	Agricultural	C150414	6/30/15
Gunnison	Gunnison County	75 Ditch Diversion Improvement and Feature Enhancements	May-10	\$46,100	\$0	\$46,100	Nonconsumptive	12IBC000002	6/30/15
Gunnison	Leroux Creek Water Users Association (LCWUA)	Hanson Reservoir Outlet Rehabilitation	Jul-10	\$50,000	\$0	\$50,000	Agricultural	11000000068	6/30/14
Gunnison	Upper Gunnison River Water Conservancy District (UGRWCD)	Blue Mesa Reservoir	Mar-11	\$24,500	\$98,000	\$122,500	NONE	C150497/C150522	12/31/14
Gunnison	Grand Mesa Water Conservancy District, Water Enterprise Fund	The Rehabilitation of Blanche Park Reservoir	Mar-11	\$75,000	\$0	\$75,000	Agricultural	14IBC000035	10/1/16
Gunnison	Colorado State University	Agricultural Weather Data Delivery Improvements to Uncompahgre Valley Irrigators	Sep-11	\$77,000	\$35,000	\$112,000	Agricultural	C150499	12/31/14
Gunnison	Leon Park Reservoir Company	Leon Park Reservoir Dam Outlet Repair	Jul-12	\$31,372	\$0	\$31,372	Agricultural	13IBC000022	1/31/14
Gunnison	Ridgway, Town of	Town of Ridgway Lake Otonowanda Renovation Project	Sep-12	\$60,000	\$540,000	\$600,000	Municipal & Industrial	C150508	6/30/16
Gunnison	Lake Fork Vally Conservancy	Henson Creek and Lake Fork Confluence Channel Improvements	Mar-13	\$28,975	\$260,111	\$289,086	Agricultural	C150521	8/26/18
Gunnison	Delta Conservation District	Curry Easements Woody Invasives Removal Project - West Side of the North Fork of the Gunnison River	May-13	\$8,865	\$0	\$8,865	Nonconsumptive	14IBC000017	3/31/15
Gunnison	Elmer L. Ferganchick	Bonita Reservoir Dam Outlet Pipe Rehabilitation	Jul-13	\$54,285	\$0	\$54,285	Agricultural	14IBC000005	11/30/14
Gunnison	Delta Conservation District	Somerset Diversion Improvement Study – North Fork of the Gunnison River Corridor Project	Sep-13	\$4,800	\$43,200	\$48,000	Municipal & Industrial	14IBC000026	12/31/14
Gunnison	Upper Gunnison River Water Conservancy District (UGRWCD)	Gunnison Basin Implementation Plan	Sep-13	\$133,333	\$66,667	\$200,000	Needs Assessment	C150534	10/31/14
Gunnison	Paonia, Town of	Lamborn Water Treatment Plant Upgrade	Jan-14	\$75,000	\$310,000	\$385,000	Municipal & Industrial	C150549	11/30/14
Gunnison	Lone Cabin Ditch & Reservoir Company	Lone Cabin Dam Rehabilitation Project	Jan-14	\$121,150	\$46,000	\$167,150	Agricultural	C150529	5/7/17
Gunnison	North Delta Irrigation Company	Ditch System Study (a continuation of the Tunnel Reconstruction Project)	Mar-14	\$0	\$82,686	\$82,686	Municipal & Industrial	14IBC000033	10/31/15
Gunnison	Colorado River Water Conservation District	No Chico Brush Agricultural Water Research Project	Mar-14	\$35,000	\$0	\$35,000	Needs Assessment	2015-124	1/31/17
Gunnison	Stewart Mesa Water Company	Stewart Mesa Water Company Improvement Project	May-14	\$12,876	\$0	\$12,876	Municipal & Industrial	2015-125	12/31/14
Gunnison Basin Total Request				\$917,256	\$1,711,664	\$2,628,920			
Number of Projects		18							
Metro	South Metro Water Supply Authority	Aquifer Recharge Pilot Study	Sep-09	\$0	\$550,000	\$550,000	Municipal & Industrial	C150474	9/15/14
Metro	Rural Water Authority of Douglas County	Rural Douglas County groundwater-level monitoring network	Sep-10	\$78,263	\$84,792	\$163,055	Municipal & Industrial	C150473	12/31/15
Metro	South Metro Water WISE Supply Authority	Water Infrastructure and Supply Efficiency (WISE) Partnership: Western Pipeline Connection Engineering/Design	Sep-13	\$68,800	\$619,200	\$688,000	Municipal & Industrial	C150535	10/31/14
Metro Basin Total Request				\$147,063	\$1,253,992	\$1,401,055			
Number of Projects		3							
North Platte	Ducks Unlimited, Inc.	North Park Irrigated Meadow Conservation Program - Phase I	May-10	\$20,000	\$0	\$20,000	Nonconsumptive	1000000126	6/30/14
North Platte	Greg Ray	Mutual Ditch - Structure for Water Control	May-13	\$41,940	\$0	\$41,940	Agricultural	14IBC000001	11/30/15
North Platte	Jackson County Water Conservancy District	North Platte Basin Implementation Plan	Sep-13	\$107,500	\$0	\$107,500	Needs Assessment	C150533	11/30/14

## WSRA IN PROGRESS PROJECTS

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Basin	Applicant	Name of Water Activity	CWCB Meeting	Basin Account Approved	Statewide Amount Approved	Total Request	Type of Water Activity	Number	Project Expiration Date
North Platte Basin Total Request				\$169,440	\$0	\$169,440			
Number of Projects		3							
Rio Grande	Lower Willow Creek Restoration Company	Lower Willow Creek Restoration Project	Sep-09	\$50,000	\$200,000	\$250,000	Nonconsumptive	C150467	12/31/14
Rio Grande	Colorado Rio Grande Restoration Foundation	2009 Rio Grande Riparian Stabilization Project - Phase 4	May-10	\$50,000	\$98,000	\$148,000	Nonconsumptive	C150486	12/31/14
Rio Grande	Terrace Reservoir Irrigation Company, Inc.	Terrace Reservoir Spillway Replacement	Mar-12	\$75,000	\$1,425,000	\$1,500,000	Agricultural	C150500	12/31/14
Rio Grande	Sanchez Ditch & Reservoir Company	Sanchez Reservoir Phase 2 - Outlet Rehabilitation and Gate Tower Replacement	Sep-12	\$55,000	\$859,400	\$914,400	Agricultural	C150510	3/31/16
Rio Grande	Santa Maria Reservoir Company	SANTA MARIA RESERVOIR SIPHON & CANAL SYSTEM REHABILITATION	Mar-13	\$23,000	\$440,750	\$463,750	Agricultural	C150516	6/14/17
Rio Grande	Mogote-Northeastern Consolidated Ditch Company	Quantifying Mogote/Romero Flows & Effects on the Conejos System	Mar-13	\$16,700	\$268,300	\$285,000	Agricultural	C150525	12/31/14
Rio Grande	SANGRE DE CRISTO ACEQUIA ASSOCIATION	Culebra Watershed Vallejos Ditch Headgate Replacement	Mar-13	\$10,000	\$90,000	\$100,000	Agricultural	14IBC000022	6/30/15
Rio Grande	Trout Unlimited	Kerber Creek Restoration Project	Jul-13	\$34,871	\$0	\$34,871	Nonconsumptive	14IBC000010	12/31/15
Rio Grande	Colorado Rio Grande Restoration Foundation	Plaza Project 2: McDonald Ditch Implementation Project	Sep-13	\$42,000	\$684,000	\$726,000	Nonconsumptive	C150492	12/31/15
Rio Grande	Colorado Rio Grande Restoration Foundation	Rio Grande Basin Implementation Plan	Sep-13	\$211,000	\$99,800	\$310,800	Needs Assessment	C150539	1/31/15
Rio Grande	Conejos Water Conservancy District	Radar Monitoring & Hydrologic Modeling in the Upper Rio Grande Basin	Sep-13	\$37,000	\$200,000	\$237,000	Other	C150543	12/31/15
Rio Grande	Santa Maria Reservoir Company	Santa Maria Reservoir Phase 2 - Continental Dam and Spillway Restoration	Sep-13	\$51,000	\$962,750	\$1,013,750	Agricultural	CC150528	6/30/17
Rio Grande	Lower Willow Creek Restoration Company	Lower Willow Creek Restoration Project: Phase 2	Sep-13	\$55,000	\$0	\$55,000	Nonconsumptive	14IBC00013	1/31/17
Rio Grande	El Cerro Ditch dba Acequia del Cerro	Rehabilitation and Ditch Lining	Jan-14	\$100,000	\$0	\$100,000	Agricultural	14IBC000034	1/31/15
Rio Grande	Colorado Rio Grande Restoration Foundation	Plaza Project - Phase 3: Prairie Ditch Implementation Project	May-14	\$21,500	\$408,500	\$430,000	Agricultural	C150554	8/31/17
Rio Grande	Conejos Water Conservancy District	Conejos River System Confluence Management Project	May-14	\$15,000	\$280,000	\$295,000	Agricultural	C150555	12/31/16
Rio Grande	San Luis Valley Irrigation Well Owner's, Inc.	Hydrologic Recharge Feasibility Study for the Rio Grande Basin Augmentation- Phase I	May-14	\$8,000	\$142,000	\$150,000	Other	C150550	12/31/14
Rio Grande	Trinchera Irrigation Company	Mountain Home Reservoir Dam Outlet Works Upgrade Feasibility Study	May-14	\$25,000	\$0	\$25,000	Agricultural	2015-120	3/15/15
Rio Grande Basin Total Request				\$880,071	\$6,158,500	\$7,038,571			
Number of Projects		18							
South Platte	Ducks Unlimited, Inc.	S.P. Water protection and restoration	Sep-08	\$0	\$825,552	\$825,552	Nonconsumptive	C150432	5/22/14
South Platte	Lower South Platte Water Conservancy District	Lower South Platte Water Cooperative Organizational Analysis	Sep-10	\$60,977	\$200,000	\$260,977	Agricultural	C150476	6/30/15
South Platte	Colorado Division of Water Resources	Alluvial Aquifer Accretion/Depletion Analysis Tool	Mar-11	\$0	\$200,000	\$200,000	Other	C154209	5/31/14
South Platte	Ducks Unlimited, Inc.	South Platte River Phreatophyte Control Pilot	Sep-11	\$35,000	\$30,000	\$65,000	Nonconsumptive	13IBC000004	8/31/14
South Platte	Ducks Unlimited, Inc.	Prewitt Reservoir Wetland Partnership	Mar-13	\$45,414	\$45,414	\$90,828	Nonconsumptive	14IBC000009	12/31/15
South Platte	Ducks Unlimited, Inc.	State Land Board South Platte Recharge Study	Sep-13	\$33,663	\$0	\$33,663	Municipal & Industrial	14IBC000027	12/31/14
South Platte Basin Total Request				\$175,054	\$1,300,966	\$1,476,020			
Number of Projects		6							
South Platte/Metro	The Greenway Foundation	Denver South Platte River Implementation Project - Frontier/Overland Final Design	Sep-12	\$200,000	\$300,000	\$500,000	Nonconsumptive	C150509	6/30/15
South Platte/Metro	Colorado Water Trust	Josh Ames Diversion Removal on Poudre River	Sep-13	\$100,000	\$200,000	\$300,000	Nonconsumptive	C150532	1/15/17
South Platte/Metro	South Metro Water Supply Authority	South Platte & Metro Integrated Basin Implementation Plan - Consumptive	Sep-13	\$606,000	\$304,000	\$910,000	Needs Assessment	C150537	10/31/15
South Platte/Metro	Ducks Unlimited, Inc.	South Platte & Metro Integrated Basin Implementation Plan - Nonconsumptive	Sep-13	\$284,000	\$143,000	\$427,000	Needs Assessment	C150538	10/31/14



## WSRA IN PROGRESS PROJECTS

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Basin	Applicant	Name of Water Activity	CWCB Meeting	Basin Account Approved	Statewide Amount Approved	Total Request	Type of Water Activity	Number	Project Expiration Date
South Platte/Metro	Northern Colorado Water Conservancy District	Emergency Flood Recovery Assessment, Design, and Recovery including Cycle #2	Nov-13	\$300,000	\$2,255,000	\$2,555,000	Other	C150540	10/31/15
South Platte/Metro	Metro Wastewater Reclamation District	South Platte River Diurnal Flow Studt	Mar-14	\$100,000	\$0	\$100,000	Other	14IBC000036	6/30/15
South Platte/Metro Basin Total Request				\$1,590,000	\$3,202,000	\$4,792,000			
Number of Projects		6							
Southwest	Lake Durango Water Authority	Lake Durango Water Authority/ Source Water Infrastructure	May-11	\$50,000	\$450,000	\$500,000	Municipal & Industrial	C150548	9/25/18
Southwest	La Plata Archuleta Water District	Construction of Municipal Water Distribution Pipeline and Related Facilities	Sep-12	\$25,000	\$475,000	\$500,000	Municipal & Industrial	C150517	12/31/14
Southwest	Mancos Conservation District	Mancos River Habitat and Diversion Project - Phase 2	Sep-12	\$20,000	\$99,340	\$119,340	Nonconsumptive	C150511	3/1/15
Southwest	Animas Airpark Property Owners Association	Animas Airpark Water Distributution System	Jan-13	\$20,000	\$0	\$20,000	Municipal & Industrial	13IBC000021	12/31/14
Southwest	Harris Water Engineering	Southwest Basin Implementation Plan	Sep-13	\$51,015	\$25,127	\$76,142	Needs Assessment	14IBC000016	1/31/15
Southwest	Ute Mountain Ute Tribe	Ute Mountain Ute Tribe Water Conservation and Management Plan	Sep-13	\$30,000	\$40,000	\$70,000	Needs Assessment	14IBC000019	1/31/16
Southwest	La Plata Water Conservancy District	La Plata River Water Resources Operations Model and SUPPLEMENTAL FUNDING	Sep-13	\$0	\$155,749	\$155,749	Agricultural	C150477	9/30/14
Southwest	Summit Reservoir and Irrigation Company	Evaluation of Potential Infrastructure Upgrades	Jan-14	\$26,000	\$0	\$26,000	Agricultural	14IBC000037	12/31/14
Southwest	Telluride Pines Homeowners Association	Telluride Pines Water Augmentation	Jan-14	\$25,000	\$0	\$25,000	Municipal & Industrial	2015-123	1/31/15
Southwest	La Plata County Palo Verde Public Improvement District #3	La Plata County Palo Verde PID #3 Water Delivery Project	Mar-14	\$25,000	\$0	\$25,000	Municipal & Industrial	2015-121	1/31/15
Southwest	Fort Lewis College	Rehabilitation of the Old Fort at Herperus Water System	May-14	\$25,000	\$0	\$25,000	Municipal & Industrial	2015-131	1/31/15
Southwest	La Plata Water Conservancy District	Long Hollow Reservoir Compact Water Delivery Study	Jul-14	\$38,000	\$0	\$38,000	Other	2015-122	6/1/15
Southwest Basin Total Request				\$335,015	\$1,245,216	\$1,580,231			
Number of Projects		12							
Yampa/White	Yampa, Town of	Town of Yampa Water Facilities Plan and storage tank upgrades	Sep-08	\$61,062	\$0	\$61,062	Municipal & Industrial	9000000090	5/5/14
Yampa/White	Bear River Reservoir Company	Stillwater Reservoir Seepage Project	Sep-09	\$189,000	\$0	\$189,000	Agricultural	C150469	8/20/15
Yampa/White	Colorado State University	Improvement of Lysimeter Operations and Consumptive Use Quantification in High-Altitude, Irrigated Meadows in the Yampa /White Basin	Sep-10	\$10,000	\$10,978	\$20,978	Agricultural	11000000058	6/30/15
Yampa/White	The Friends of the Yampa	Yampa River Structures Project	Sep-11	\$50,000	\$0	\$50,000	Nonconsumptive	13IBC000006	12/31/14
Yampa/White	Rangely, Town of	Rangely Irrigation System Master Plan Study	Jan-13	\$12,500	\$0	\$12,500		13IBC000015	12/31/14
Yampa/White	Routt County Conservation District	Armstrong Creek Restoration Project	Mar-13	\$15,000	\$35,000	\$50,000	Nonconsumptive	14IBC000011	12/31/15
Yampa/White	Community Agriculture Alliance, Inc.	Development & Implementation of Water Education & Networking 3 year Program of Discussions, Forums, Workshops Tours	Jul-13	\$30,000	\$0	\$30,000	Education	14IBC000008	11/30/15
Yampa/White	Colorado River Water Conservation District	Yampa/White Basin Implementation Plan	Nov-13	\$177,066	\$0	\$177,066		C150547	12/31/14
Yampa/White	Moffat County	Yampa-White Basin Projects and Methods Analysis	Jan-14	\$58,000	\$152,000	\$210,000	Other	C150481	12/31/14
Yampa/White Basin Total Request				\$602,628	\$197,978	\$800,606			
Number of Projects		9							

## WSRA COMPLETED PROJECTS

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Basin	Applicant	Name of Water Activity	CWCB Meeting	Basin Account Approved	Statewide Amount Approved	Total Request	Type of Water Activity	Number	Project Expiration Date	Final Date Closed
Arkansas	Southeastern Colorado Water Activity Enterprise	Arkansas Valley Conduit	Mar-07	\$64,300	\$0	\$64,300	Municipal & Industrial	C150406		
Arkansas	Southeastern Colorado Water Conservancy District	Non-native Phreatophyte Trees & Mapping Project	Mar-07	\$50,000	\$0	\$50,000	Other	8000000005		6/30/09
Arkansas	El Paso County Water Authority	Upper Black Squirrel Creek Aquifer Recharge Investigation	Mar-07	\$45,200	\$0	\$45,200	Municipal & Industrial	8000000011		
Arkansas	El Paso County Water Authority	Ground Water Conference	Mar-07	\$24,721	\$0	\$24,721	Education	8000000010	10/10/07	6/30/09
Arkansas	Pueblo and El Paso Counties	Fountain Creek Vision Task Force	May-07	\$75,000	\$0	\$75,000	Needs Assessment	8000000084	6/30/09	6/30/09
Arkansas	Round Mountain Water and Sanitation District	Round Mountain Water & Sanitation District Water System Improvements Project	May-07	\$120,000	\$0	\$120,000	Municipal & Industrial	C150403	9/2/09	9/17/09
Arkansas	Lower Arkansas Valley Water Conservancy District	Rotational Land Fallowing-Water Leasing Program -Lower Arkansas Super Ditch Company	Jan-08	\$150,000	\$0	\$150,000	Agricultural	C150425	6/30/10	5/15/10
Arkansas	Upper Big Sandy Ground Water Management District	Upper Big Sandy Water Balance	Jan-08	\$45,000	\$0	\$45,000	Needs Assessment	8000000100		5/8/09
Arkansas	Southeastern Colorado Water Conservancy District	Model Transfers- Agriculture to Urban, Arkansas Basin	Jan-08	\$23,860	\$0	\$23,860	Agricultural	8000000135		12/1/08
Arkansas	Greater Arkansas River Nature Association	Arkansas Headwaters Diversion Structure Improvement Project Arkansas River Basin	Mar-08	\$0	\$57,955	\$57,955	Nonconsumptive	9000000025		8/31/09
Arkansas	Las Animas, City of	City of Las Animas Water System Improvements	Mar-08	\$100,000	\$200,000	\$300,000	Municipal & Industrial	C150424	12/31/09	9/23/09
Arkansas	Colorado State Parks	Colorado State Parks Zebra Mussel Response	Mar-08	\$0	\$1,000,000	\$1,000,000	Other	C150416	6/30/09	6/30/10
Arkansas	Upper Arkansas Water Conservancy District	Telemetry data collection platforms at six reservoirs plus flow control equipment & gauging at six reservoir outlet channels & nine streams w/in the Upper Ark River basin	Sep-08	\$75,000	\$210,332	\$285,332	Agricultural	C150439	12/31/11	9/7/11
Arkansas	Colorado State University	Geospatial Decision Support System for Integrated Water Management in the Arkansas River Basin	Sep-08	\$100,000	\$500,000	\$600,000	Needs Assessment	C150441	6/30/13	6/30/13
Arkansas	Lower Arkansas Valley Water Conservancy District	John Martin Wetlands & Neenoshe Reservoir Nonconsumptive Needs Quantification	May-09	\$148,975	\$0	\$148,975	Needs Assessment	C150457	6/30/12	6/28/12
Arkansas	Upper Arkansas Water Conservancy District	UAWCD Hydrologic Water Balance Study	Sep-09	\$0	\$180,000	\$180,000	Needs Assessment	C150460	6/30/13	9/25/12
Arkansas	Pueblo, City of	Bedload/Sediment Collection and Removal Technology - Fountain Creek	Sep-09	\$75,000	\$150,000	\$225,000	Nonconsumptive	C150465	6/30/13	6/30/13
Arkansas	Southeastern Colorado Water Conservancy District	Stakeholder's Cooperative Management Analysis for the Upper Arkansas River Basin	Jul-10	\$33,600	\$0	\$33,600	Nonconsumptive	11000000012	8/31/11	12/31/11
Arkansas	Fountain Creek Watershed Greenway and Flood Control District	Fountain Creek Fish Marking and Monitoring Study	Sep-10	\$7,000	\$28,000	\$35,000	Nonconsumptive	12IBC000009	4/1/12	3/29/12
Arkansas	Purgatoire River Water Conservancy District	Trinidad/Purgatoire River Reach 4 Demonstration Project	Jan-11	\$75,000	\$0	\$75,000	Nonconsumptive	11000000131	12/31/12	12/31/12
Arkansas	Southeastern Colorado Water Conservancy District	The use of excess storage capacity in Blue Mesa Reservoir to avoid or reduce the impact of a Colorado River Compact curtailment in Colorado	Mar-11	\$24,500	\$98,000	\$122,500	Municipal & Industrial	C150496	6/30/13	3/7/13
Arkansas	Colorado State Parks	Helena Diversion Structure/BV Boat Chute Improvement Project	Mar-11	\$35,000	\$290,000	\$325,000	Nonconsumptive	C150507	1/15/14	3/11/14
Arkansas	Colorado Foundation for Water Education	Raising Awareness in 2012: A Statewide Celebration of Colorado Water	Mar-11	\$0	\$30,515	\$30,515	Education	11000000113	12/31/12	1/30/12
Arkansas	Lower Arkansas Valley Water Conservancy District	Super Ditch Delivery Engineering	Mar-11	\$0	\$225,837	\$225,837	Agricultural	C150490	6/28/14	6/4/14
Arkansas	Sangre de Cristo RC&D Council Inc.	A Multi-Media Program for Reporting Crop and Turf Water Use Estimates from the Colorado Agricultural Meteorological Network (CoAgMet)	May-11	\$0	\$0	\$0	Agricultural	12IBC000006	6/30/15	
Arkansas	Pikes Peak Regional Water Authority	Rotating Agricultural Fallowing Public Policy Working Group	Jul-11	\$20,000	\$0	\$20,000	Agricultural	12IBC000015		
Arkansas	Lower Arkansas Valley Water Conservancy District	Colorado Water 2012	Jan-12	\$6,255	\$0	\$6,255	Education	13IBC000005	8/31/12	8/2/12
Arkansas	El Paso County by its Board of County Commissioners	Groundwater Quality Study - Phase 2 - Upper Black Squirrel Creek Alluvial Aquifer in the Arkansas River Basin	May-12	\$35,000	\$0	\$35,000		13IBC000018	3/31/15	12/26/13
Arkansas	Lower Arkansas Valley Water Conservancy District	Ag-Municipal Conservation Easement Demonstration	Sep-12	\$54,000	\$216,000	\$270,000	Agricultural	C150512	12/30/12	12/31/12
Arkansas	Cross Creek Metropolitan District	Hale Reservoir Renovation – Final Design & Permitting	Sep-12	\$20,000	\$100,000	\$120,000	Municipal & Industrial	C150504	6/30/14	6/6/14

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Basin	Applicant	Name of Water Activity	CWCB Meeting	Basin Account Approved	Statewide Amount Approved	Total Request	Type of Water Activity	Number	Project Expiration Date	Final Date Closed
Arkansas	Purgatoire River Water Conservancy District	Purgatoire River Reach 3 Habitat Improvment Project	Jan-13	\$25,250	\$0	\$25,250	Nonconsumptive	14IBC000025	6/30/14	
Arkansas	Colorado State University	Agricultural Economics and Water Resources: Methods, Metrics and Models - A Speciality Workshop	Mar-13	\$9,746	\$0	\$9,746	Education	13IBC000025	12/31/13	
Arkansas	Fountain Creek Watershed Greenway and Flood Control District	Fountain Creek Bank Restoration at the Frost Ranch	Mar-13	\$30,000	\$75,000	\$105,000	Nonconsumptive	C150524	5/30/14	6/3/14
Arkansas	McClave Water Association Inc.	Water Tank Replacement	Jul-13	\$64,300	\$0	\$64,300	Municipal & Industrial	14IBC0000006	12/31/14	4/25/14
Arkansas	Canon City, Town of	Royal Gorge Wildfire Water Quality Impact and Protection Project – Emergency Miltigation, Stabilization, and Reclamation	Sep-13	\$24,260	\$267,284	\$291,544	Other	C150536	6/27/14	6/16/14
Arkansas	Upper Arkansas Water Conservancy District	Helena Diversion Structure/BV Boat Chute Improvement Project - Phase 2	Nov-13	\$43,125	\$0	\$43,125	Agricultural	14IBC000021	3/1/14	3/1/14
Arkansas Basin Total Request				\$1,604,092	\$3,628,923	\$5,233,015				
Number of Projects			36							
Arkansas/Colorado/Gunnison/North Platte/Rio Grande/Southwest/South Platte/Metro	Pikes Peak Regional Water Authority	Basin Roundtable Project Exploration Committee: Flaming Gorge	Sep-11	\$23,000	\$50,004	\$73,004	Other	13IBC0000001	1/31/13	1/31/13
Arkansas/Colorado/Gunnison/North Platte/Rio Grande/Southwest/South Platte/Metro Basin Total Request				\$23,000	\$50,004	\$73,004				
Number of Projects			1							
Arkansas/Metro	El Paso County Water Authority	Flaming Gorge Project Task Force Assessment	May-10	\$60,000	\$0	\$60,000	Other	11000000008	6/30/11	6/30/11
Arkansas/Metro Basin Total Request				\$60,000	\$0	\$60,000				
Number of Projects			1							
Colorado	Eagle Park Reservoir Company	Enlargement of Eagle Park Reservoir		\$100,000	\$400,000	\$500,000	Municipal & Industrial	C150401		
Colorado	Colorado River Water Conservation District	Upper Colorado Endangered Fish Recovery Alternatives Analysis (10,825)		\$0	\$200,000	\$200,000	Other	C150404		
Colorado	Ruedi Water and Power Authority	Roaring Fork Watershed Assessment	Mar-07	\$40,000	\$0	\$40,000	Nonconsumptive	8000000012		
Colorado	Grand County	Vail Ditch Project	Mar-07	\$0	\$1,500,000	\$1,500,000	Agricultural	C150409	6/30/08	6/30/08
Colorado	Colorado River Water Conservation District	Upper Colorado Endangered Fish Recovery Alternatives Analysis (10,825)	Mar-07	\$0	\$200,000	\$200,000	Nonconsumptive	C150404	6/30/08	6/30/08
Colorado	Bull Creek Reservoir Canal and Power Co.	Bull Creek Reservoir No. 5 Spillway Adequacy Analysis	Sep-07	\$50,000	\$0	\$50,000	Agricultural	8000000039	6/30/10	2/25/09
Colorado	Basalt Water Conservancy District	Missouri Heights	Sep-07	\$25,000	\$0	\$25,000	Needs Assessment	8000000049	3/31/14	4/14/14
Colorado	Summit County	Old Dillon Reservoir	Mar-08	\$100,000	\$0	\$100,000	Municipal & Industrial	9000000026	6/30/09	3/2/10
Colorado	Grand County	Fraser Sedimentation Basin	Mar-08	\$60,000	\$127,900	\$187,900	Nonconsumptive	C150449	6/30/12	12/28/11
Colorado	Grand County	Grand County Stream Flow Management Plan	May-08	\$100,000	\$0	\$100,000	Nonconsumptive	C150461	6/30/11	12/16/10
Colorado	Ruedi Water and Power Authority	Roaring Fork Watershed Assessment -Phase 2	May-08	\$40,000	\$0	\$40,000	Nonconsumptive	9000000049	10/1/09	10/1/09
Colorado	West Divide Water Conservancy District	Feasibility and design assessment of off-channel reservoir sites in the Crystal River water shed	Sep-08	\$40,000	\$0	\$40,000	Municipal & Industrial	9000000052	8/31/09	9/2/09
Colorado	Trout Unlimited	Battlement Reservoir #3 Dam reconstruction to enhance recreational & environmental opportunities	Sep-08	\$80,000	\$0	\$80,000	Nonconsumptive	11000000126	12/31/12	12/23/11
Colorado	Northwest Colorado Council of Governments	Colorado Basin Nonconsumptive Needs Quantification	Mar-09	\$315,171	\$0	\$315,171	Needs Assessment	C150451	6/30/12	6/14/12
Colorado	Colorado Foundation for Water Education	Solicitation of Stakeholders input and advice through a Colorado River Basin edition of Headwaters Magazine Colorado	Sep-10	\$25,000	\$0	\$25,000	Education	11000000039	6/30/11	6/28/11
Colorado	Grand River Ditch Company	Grand River Ditch Pipeline	Sep-10	\$25,000	\$0	\$25,000	Agricultural	11000000097	6/30/11	6/1/11
Colorado	Colorado Mesa University	Colorado Water 2012	Jan-12	\$26,263	\$0	\$26,263	Education	12IBC000018	6/30/14	6/19/14
Colorado	Blue River Watershed Group	Upper Swan River Restoration Project	Mar-12	\$30,000	\$0	\$30,000	Nonconsumptive	12IBC000021	3/30/13	3/29/13
Colorado	Eagle River Watershed Council, Inc.	Colorado River Inventory & Assessment	May-12	\$30,000	\$0	\$30,000	Needs Assessment	13IBC000003	12/31/13	12/31/13
Colorado	Eagle River Watershed Council, Inc.	Colorado River Restoration and Conservation Projects	Sep-12	\$20,000	\$90,000	\$110,000	Nonconsumptive	C150506	6/30/14	6/27/14

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Basin	Applicant	Name of Water Activity	CWCB Meeting	Basin Account Approved	Statewide Amount Approved	Total Request	Type of Water Activity	Number	Project Expiration Date	Final Date Closed
Colorado Basin Total Request				\$1,106,434	\$2,517,900	\$3,624,334				
Number of Projects		20								
Colorado/Yampa/White	Grand Junction, City of	Energy Development Water Needs Assessment (300,000 Joint Application see Colorado)	Mar-08	\$0	\$300,000	\$300,000	Needs Assessment	C150407	3/31/11	
Colorado/Yampa/White Basin Total Request				\$0	\$300,000	\$300,000				
Number of Projects		1								
Gunnison	Upper Gunnison Water Conservancy District and Hinsdale County	Lake San Cristobal Controlled Outlet Structure		\$40,000	\$0	\$40,000	Municipal & Industrial	8000000021		12/28/08
Gunnison	Leroux Creek Water Users Association (LCWUA)	Safety and Serviceability Needs Inventory for Reservoirs in the Leroux Creek Drainage Basin	May-07	\$60,000	\$0	\$60,000	Agricultural	8000000008	6/30/11	6/30/11
Gunnison	Orchard City, Town of	Orchard City Water Reservoir Project (Task 1-3)	May-07	\$60,000	\$0	\$60,000	Municipal & Industrial	8000000007	6/30/08	
Gunnison	Orchard City, Town of	Orchard City Water Reservoir Project (Remaining Tasks)	Sep-07	\$0	\$480,000	\$480,000	Municipal & Industrial	C150410	12/31/08	
Gunnison	Project 7 Water Authority and Uncompahgre Valley Water Users Association	Off-System Raw Water Storage Project 7 Water Authority/Uncompahgre Valley Water Users Association	Sep-07	\$56,700	\$0	\$56,700	Municipal & Industrial	8000000059		
Gunnison	Overland Ditch and Reservoir Company	Overland Reservoir Dam Expansion/Restoration	Sep-07	\$0	\$68,000	\$68,000	Agricultural	8000000038	9/30/12	9/30/12
Gunnison	Upper Gunnison River Water Conservancy District (UGRWCD)	Phase II Engineering for Lake San Cristobal Outlet Modification	Jul-08	\$75,265	\$0	\$75,265	Municipal & Industrial	9000000041	6/30/11	4/8/11
Gunnison	Upper Gunnison River Water Conservancy District (UGRWCD)	Lake San Cristobal Outlet Structure Modification--Phase III	Nov-08	\$0	\$120,960	\$120,960	Municipal & Industrial	C150444A	6/30/11	
Gunnison	Ridgway, Town of	Ridgway Ditch and Lake Otonawanda Improvement Project	Mar-09	\$109,500	\$0	\$109,500	Municipal & Industrial	C150455	6/30/11	6/30/11
Gunnison	City of Grand Junction Water Enterprise Fund	Juniata Reservoir Spillway Modification	Mar-09	\$97,000	\$0	\$97,000	Municipal & Industrial	9000000088		
Gunnison	Painted Sky Resource Conservation and Development Council, Inc.	Hartland Diversion Dam Fish Passage Feasibility Study	May-09	\$22,100	\$0	\$22,100	Nonconsumptive	9000000144	6/30/10	1/25/10
Gunnison	Ouray, City of	Development of Augmentation Supplies	May-09	\$50,000	\$0	\$50,000	Municipal & Industrial	10000000041	6/30/11	6/30/11
Gunnison	Valley View Irrigation Association	Valley View Irrigation Improvement	Mar-11	\$0	\$0	\$0	Agricultural	11000000127	12/31/11	7/26/11
Gunnison	Gunnison Gorge Anglers - Trout Unlimited	Relief Ditch Diversion Dam Design	May-11	\$20,650	\$0	\$20,650	Agricultural	12IBC0000004	6/30/12	6/30/12
Gunnison	Painted Sky Resource Conservation and Development Council, Inc.	Hartland Diversion Dam — Partial Dam Removal and Stabilization	Sep-11	\$0	\$0	\$0	Nonconsumptive	12IBC000008	3/31/12	3/31/12
Gunnison	Grand Mesa Reservoir Company	Lining Outlet for Grand Mesa Reservoir #6	Nov-11	\$19,840	\$0	\$19,840	Agricultural	12IBC000022	12/31/12	11/13/12
Gunnison	Colorado Mesa University	Gunnison Basin Roundtable Education Program	Mar-12	\$17,730	\$0	\$17,730	Education	12IBC000020	6/30/14	6/18/14
Gunnison	North Delta Irrigation Company	Tunnel Reconstruction Project	Mar-12	\$40,000	\$690,110	\$730,110	Agricultural	C150498	4/1/13	4/1/13
Gunnison	Delta Conservation District	North Fork of the Gunnison Invasive Weed Removal	May-12	\$20,000	\$0	\$20,000	Other	13IBC000007	12/31/13	12/31/13
Gunnison	Colorado Open Lands	Lake San Cristobal Inlet Preservation and Fishing Access Project - Easement	Mar-13	\$16,700	\$150,300	\$167,000	Nonconsumptive	C150526	12/31/13	11/22/13
Gunnison	Grand Mesa Water Users Association	Replacement of Measuring Devices on Grand Mesa	Jul-13	\$40,000	\$0	\$40,000	Other	14IBC000015	12/31/13	10/29/13
Gunnison	North Fork River Improvement Association	Paonia-Feldman Diversion Reconstruction; North Fork of the Gunnison River (Part 1 and 2)	May-14	\$12,876	\$0	\$12,876	Agricultural	C150411		
Gunnison Basin Total Request				\$758,361	\$1,509,370	\$2,267,731				
Number of Projects		22								
Metro	The Greenway Foundation	Chatfield Reallocation EIS/FR (South Platte BRT contributing \$27,000)	Mar-07	\$103,000	\$0	\$103,000	Municipal & Industrial			
Metro	East Cherry Creek Valley Water and Sanitation District	Zero Liquid Discharge Pilot Study	Sep-07	\$200,000	\$200,000	\$400,000	Municipal & Industrial	C150412		1/8/09
Metro	Parker Water and Sanitation District	Parker Water & San. & CO. State Univ Joint Project on the Rural/Urban Farm Model	Sep-07	\$150,000	\$0	\$150,000	Municipal & Industrial	C150413	12/31/09	10/2/09
Metro	South Metro Water Supply Authority	South Metro Water Supply Authority - Regional Aquifer Supply Assessment	Jul-08	\$100,540	\$0	\$100,540	Municipal & Industrial	C150430	12/31/09	12/31/10

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Basin	Applicant	Name of Water Activity	CWCB Meeting	Basin Account Approved	Statewide Amount Approved	Total Request	Type of Water Activity	Number	Project Expiration Date	Final Date Closed
Metro	The Greenway Foundation	South Platte River Recreation and Habitat Feasibility Study	Sep-08	\$150,000	\$0	\$150,000	Nonconsumptive	C150442	6/30/10	6/30/10
Metro	Douglas County Water Resource Authority	Feasibility Study for Bureau of Reclamation Funding from the National Rural Water Supply Act	Sep-09	\$100,000	\$500,000	\$600,000	Municipal & Industrial	C150470	6/30/13	6/30/13
Metro	Douglas County Water Resource Authority	Rotary Sprinkler Nozzle Retrofit	Sep-10	\$0	\$250,000	\$250,000	Municipal & Industrial	C150471	12/31/13	11/25/13
Metro	Colorado Foundation for Water Education	Educating Denver Metro elected officials and decision makers on solutions-oriented water supply planning	Jan-11	\$14,820	\$0	\$14,820	Education	11000000083	6/30/12	4/30/12
Metro Basin Total Request				\$818,360	\$950,000	\$1,768,360				
Number of Projects		8								
North Platte	Silver Spur Land & Cattle	New Pioneer Ditch Diversion Reconstruction Project	Mar-08	\$116,000	\$0	\$116,000	Agricultural	C150421	12/31/09	
North Platte	Walden, Town of	Town of Walden Water Supply Improvement Project	Jul-08	\$385,000	\$0	\$385,000	Municipal & Industrial	C150431A	9/30/11	
North Platte	USDA, Forest Service	Effects of Mtn pine beetle and forest mgmt on water quantity, quality, and forest recovery N.P. and Upper CO River basins	Sep-08	\$212,306	\$164,618	\$376,923	Other	C150440	12/31/13	6/4/14
North Platte	Colorado State University	Identification and assessment of important wetlands in N.P. River watershed	Sep-08	\$86,000	\$96,000	\$182,000	Nonconsumptive	C150433	6/30/10	6/30/10
North Platte	Colorado State University	Monitoring the effects of weather conditions on the evapotranspiration in N.P. Basin	Sep-08	\$50,409	\$50,409	\$100,818	Agricultural	C150438	6/30/14	6/30/14
North Platte	Walden Reservoir Company	Structure for Water Control	Jan-11	\$36,000	\$0	\$36,000	Agricultural	11000000087	11/30/11	11/7/11
North Platte	Colorado Foundation for Water Education	Solicitation of stakeholder input through production of a North Platte Basin education package	Jan-11	\$14,040	\$0	\$14,040	Education	11000000084	6/30/12	6/25/12
North Platte	Jackson County Water Conservancy District	Structures for Water Control: Headgates and Diversion	Sep-11	\$128,828	\$0	\$128,828	Agricultural	C150488	12/31/13	12/10/12
North Platte	Jackson County Water Conservancy District	Structures for Water Control: Headgates and Diversion - Additional Funds Request	May-12	\$55,055	\$0	\$55,055		C150488	12/31/13	12/10/12
North Platte	Loban, Hackleman and Olsen LLC	Seneca Ditch - Structure for Water Control	Jul-12	\$57,539	\$0	\$57,539		13IBC000011	4/22/13	
North Platte Basin Total Request				\$1,141,177	\$311,027	\$1,452,203				
Number of Projects		10								
Rio Grande	El Paso County Water Authority	Alamosa River In-stream Flow Project	Mar-07	\$64,500	\$0	\$64,500	Nonconsumptive	7000000076		6/30/08
Rio Grande	San Luis Valley Irrigation District	Preliminary Design Multi-use Rio Grande Reservoir Rehabilitation and Enlargement	Mar-07	\$0	\$288,000	\$288,000	Agricultural	C150402	6/30/10	6/30/10
Rio Grande	Colorado Rio Grande Restoration Foundation	Rio Grande Basin Conservation Reserve Enhancement Program	May-07	\$36,750	\$0	\$36,750	Agricultural	8000000006		
Rio Grande	San Luis Valley Resource Conservation and Development Council	Alamosa River Watershed Restoration Project	Sep-07	\$0	\$104,000	\$104,000	Other	C150419		
Rio Grande	Romero Irrigation Company	Romero-Guadalupe Channel Rectification Project	Sep-07	\$83,700	\$0	\$83,700	Agricultural	8000000060		9/17/08
Rio Grande	Rio Grande Headwaters Land Trust	Rio Grande Initiative	Mar-08	\$200,000	\$1,300,000	\$1,500,000	Nonconsumptive	C150420		
Rio Grande	Santa Maria Reservoir Company	Santa Maria and Continental Reservoirs: Rehabilitation and Multiple Use Studies	Sep-08	\$72,000	\$141,700	\$213,700	Agricultural	C150443	6/30/12	6/30/12
Rio Grande	Colorado Rio Grande Restoration Foundation	2008 Rio Grande Riparian Stabilization Project	Sep-08	\$35,000	\$250,000	\$285,000	Nonconsumptive	C150452	12/31/12	12/31/12
Rio Grande	Manassa Land and Irrigation Company	Conejos River and North Branch Diversion and Stabilization	Sep-08	\$50,000	\$333,700	\$383,700	Agricultural	C150446	6/30/10	6/30/10
Rio Grande	San Luis Valley Irrigation District	Rio Grande Reservoir Multi-Use Rehabilitation: Refinement and Enhancement of Reservoir Reoperation and Optimization Model	Nov-08	\$100,000	\$0	\$100,000	Agricultural	C150437A	12/31/11	12/21/11
Rio Grande	El Codo Ditch Company	San Antonio River - El Codo Ditch Diversion and Rehabilitation	May-09	\$65,000	\$0	\$65,000	Agricultural	1000000001	12/31/09	12/8/09
Rio Grande	Colorado Rio Grande Restoration Foundation	Conservation Reserve CREP Phase II	Sep-09	\$31,500	\$0	\$31,500	Agricultural	10000000056	12/31/12	11/20/12
Rio Grande	Trinchera Irrigation Company	Shortfall Request - Sangre de Cristo Trinchera Diversion Canal Restoration	Jan-10	\$54,000	\$0	\$54,000	Agricultural	C150458	7/31/11	7/31/12
Rio Grande	Rio Grande Watershed Conservation and Education Initiative	Educating Today to Balance Tomorrow's Water Supplies & Needs	May-10	\$25,000	\$0	\$25,000	Education	11000000059	6/30/12	10/17/11

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Basin	Applicant	Name of Water Activity	CWCB Meeting	Basin Account Approved	Statewide Amount Approved	Total Request	Type of Water Activity	Number	Project Expiration Date	Final Date Closed
Rio Grande	San Luis Peoples Ditch Company	San Luis Peoples Ditch Upgrade and Rehabilitation Project - Phase I	May-10	\$40,000	\$0	\$40,000	Agricultural	11000000053	6/30/11	9/7/11
Rio Grande	Manassa Land and Irrigation Company	Conejos North Branch Water Conservation and Management	Jan-11	\$75,000	\$0	\$75,000	Agricultural	11000000109	6/30/12	6/25/12
Rio Grande	Rio Grande Headwaters Land Trust	Rio Grande Initiative: North Rio Grande Ranch Conservation Easement	Mar-11	\$15,000	\$55,000	\$70,000	Nonconsumptive	C150489	12/30/11	12/30/11
Rio Grande	Conejos Water Conservancy District	Platoro Reservoir Crest of Dam Repair	Sep-11	\$15,000	\$135,000	\$150,000	Agricultural	C150495	12/31/12	10/20/12
Rio Grande	Sanchez Ditch & Reservoir Company	Sanchez Reservoir Rehabilitation - Phase I Assessment & Upgrade	Sep-11	\$10,000	\$85,000	\$95,000	Agricultural	12IBC000013	7/31/12	6/13/12
Rio Grande	Rio Grande Watershed Conservation and Education Initiative	Water 2012: The Rio Grande Basin Partnering for Colorado's Water Future	Nov-11	\$15,600	\$0	\$15,600	Education	12IBC000017	12/31/12	12/19/12
Rio Grande	Conejos Water Conservancy District	Conejos River System Gauging Stations Project	Mar-12	\$20,000	\$387,280	\$407,280	Agricultural	C150501	6/30/14	6/18/14
Rio Grande	Rio Grande, County of	Rio Grande County Hydrogeologic Study	Jul-12	\$99,564	\$0	\$99,564	Other	13IBC000008	12/31/13	12/31/12
Rio Grande	Rio Grande Headwaters Land Trust	Rio Grande Initiative: Haywood Ranch Conservation Easement	Sep-12	\$25,000	\$400,000	\$425,000	Agricultural	C150514	12/31/13	12/19/13
Rio Grande	Colorado Foundation for Water Education	Solicitation of Stateholders Input & Advice through publication of a Rio Grande Edition of Headwaters Magazine	Jan-13	\$33,237	\$0	\$33,237	Education	13IBC000016	6/30/13	6/19/13
Rio Grande	Rio Grande Watershed Conservation and Education Initiative	The Rio Grande Basin "Narrowing the Gap" for Colorado's Water Future	Mar-13	\$23,500	\$0	\$23,500	Education	13IBC000020	6/30/14	11/29/13
Rio Grande	Colorado Potato Administrative Committee (Area II)	Drip Irrigation Field Trial for Sustainable Potato Cropping in the San Luis Valley	May-13	\$40,000	\$0	\$40,000	Agricultural	13IBC000026	12/31/13	11/4/13
Rio Grande	Conejos Water Conservancy District	Platoro Reservoir Restoration	May-14	\$15,000	\$280,000	\$295,000	Agricultural	C150448		
Rio Grande	Trinchera Irrigation Company	Sangre de Cristo Trinchera Diversion Canal Restoration	May-14	\$25,000	\$0	\$25,000	Agricultural	C150458		
Rio Grande	Colorado Rio Grande Restoration Foundation	The McDonald Ditch and Plaza Project, Phase I Planning	May-14	\$21,500	\$408,500	\$430,000	Agricultural	11000000102		
Rio Grande Basin Total Request				\$1,290,851	\$4,168,180	\$5,459,031				
Number of Projects		29								
South Platte	The Greenway Foundation	Chatfield Reallocation EIS/FR (Metro BRT contributing \$103,000)	Mar-07	\$27,000	\$0	\$27,000	Municipal & Industrial			
South Platte	Clear Creek County	Clear Creek Water Banking/High Altitude Storage	May-07	\$52,000	\$0	\$52,000	Municipal & Industrial	C8000000037		
South Platte	District 64 Reservoir Company	Ovid Reservoir Comprehensive Feasibility Study	Sep-07	\$176,000	\$0	\$176,000	Agricultural	C150417	12/31/11	4/13/12
South Platte	Ducks Unlimited, Inc.	Lower South Platte Wetland Initiative Phase I South Platte River, CO	Sep-07	\$0	\$278,476	\$278,476	Nonconsumptive	C150415	7/31/09	7/31/09
South Platte	Northern Colorado Water Conservancy District	Stage Discharge Data Loggers and Telemetry	Jan-08	\$48,800	\$0	\$48,800	Agricultural	80000000120	6/30/11	6/28/11
South Platte	Ducks Unlimited, Inc.	Weld County School Dist RE1 Wetland Partnership	Jul-08	\$41,210	\$0	\$41,210	Nonconsumptive	90000000063	12/31/13	
South Platte	The Nature Conservancy of Colorado	Arickaree River Well retirement program, Republican River basin, CO.	Sep-08	\$19,984	\$79,936	\$99,920	Agricultural	90000000084	3/29/14	2/28/14
South Platte	Greeley, City of	Halligan Seaman Water Mgmt project share vision planning model	Sep-08	\$25,435	\$76,305	\$101,740	Municipal & Industrial	C150436	6/30/10	6/30/10
South Platte	Ducks Unlimited, Inc.	Central South Platte Wetland Partnership	Mar-09	\$150,000	\$0	\$150,000	Nonconsumptive	C150454	6/30/12	6/30/12
South Platte	Fort Morgan Reservoir and Irrigation Company (FMRICo)	FMRICo Recharge & Wetlands Project	Sep-09	\$250,000	\$420,000	\$670,000	Agricultural	C150464	6/30/12	6/27/12
South Platte	Colorado State University	Colorado Agricultural Meterological Network (CoAgMet)	Jul-10	\$20,000	\$0	\$20,000	Agricultural	11000000079	6/30/12	6/30/12
South Platte	Ducks Unlimited, Inc.	Development of Decision Support Model for Identifying & Ranking Waterfow and Wildlife Related Recharge Projets along the South Platte River	Sep-10	\$0	\$85,421	\$85,421	Nonconsumptive	12IBC000023	9/30/13	9/30/13
South Platte	Colorado Division of Water Resources	Data Logger Installation Project, South Platte River Basin	Mar-13	\$88,958	\$0	\$88,958	Other	C150519	6/30/13	6/30/13
South Platte Basin Total Request				\$899,387	\$940,138	\$1,839,525				
Number of Projects		13								

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			Basin	Statewide						
Basin	Applicant	Name of Water Activity	CWCB Meeting	Account Approved	Amount Approved	Total Request	Type of Water Activity	Number	Project Expiration Date	Final Date Closed
South Platte/Metro	Clear Creek County	Upper Mountain Counties Water Needs Assessment	May-08	\$174,350	\$0	\$174,350	Needs Assessment	C150429A	6/30/11	12/31/10
South Platte/Metro	Colorado Foundation for Water Education	Solicitation of Stakeholder Input through a South Platte Edition of Headwaters	Jul-08	\$48,057	\$0	\$48,057	Education	9000000019		
South Platte/Metro	Lost Creek Groundwater Management District	Lost Creek Aquifer Recharge and Storage Study	Jan-09	\$160,000	\$0	\$160,000	Municipal & Industrial	C150447	6/30/11	9/27/11
South Platte/Metro	The Greenway Foundation	South Platte River Recreation and Habitat Improvement Preliminary Design	Sep-11	\$50,000	\$200,000	\$250,000	Nonconsumptive	C150493	6/28/13	12/31/12
South Platte/Metro Basin Total Request				\$432,407	\$200,000	\$632,407				
Number of Projects		4								
Southwest	San Juan Water Conservancy District	Dry Gulch Reservoir/San Juan Reservoir Land Acquisition		\$0	\$1,000,000	\$1,000,000	Municipal & Industrial	C150408		
Southwest	Goodman Point Water Association	Goodman Point Water Association Pipeline Environmental Assessment	Mar-07	\$7,700	\$0	\$7,700	Municipal & Industrial	8000000075		7/31/09
Southwest	Mancos Water Conservancy District	Jackson Gulch Reservoir Expansion Project	Jul-07	\$80,000	\$0	\$80,000	Municipal & Industrial	8000000076	6/30/09	6/30/09
Southwest	Goodman Point Water Association	Goodman Point Phase 2	Sep-07	\$20,000	\$120,000	\$140,000	Municipal & Industrial	C150462	6/30/12	3/16/11
Southwest	Bauer Lake Water Company	Bauer Lakes Water Co. Dam Outlet Structure Upgrade	Mar-08	\$40,000	\$0	\$40,000	Agricultural	10000000084	12/31/11	12/28/11
Southwest	La Plata West Water Authority	La Plata West Rural Water Supply System	Mar-08	\$100,000	\$1,000,000	\$1,100,000	Municipal & Industrial	C150422	6/30/09	6/30/09
Southwest	Sawpit, Town of	Town of Sawpit Engineering/Planning for Domestic Water System; Southwest Basin	Mar-08	\$25,000	\$0	\$25,000	Municipal & Industrial	9000000006	6/30/09	6/7/10
Southwest	Summit Reservoir and Irrigation Company	MVIC Summit Irrigation Company feasibility study	Sep-08	\$39,300	\$0	\$39,300	Agricultural	9000000085	8/31/10	8/31/10
Southwest	Happy Scenes Water System #1	Water System Well, Treatment System and Distribution Upgrades	Nov-08	\$50,000	\$0	\$50,000	Municipal & Industrial	9000000127	6/30/10	11/17/09
Southwest	La Plata Archuleta Water District	Water System Master Planning	Nov-08	\$100,000	\$0	\$100,000	Municipal & Industrial	9000000112	12/31/09	12/22/09
Southwest	Silverton, Town of	Molas Lake Ditch Rehabilitation and Diversion Structures	Jan-09	\$95,000	\$0	\$95,000	Municipal & Industrial	9000000143	12/31/11	11/18/11
Southwest	Lower Blanco Property Owners Association	Lower Blanco River Restoration Project	Mar-09	\$100,000	\$0	\$100,000	Nonconsumptive	C150450	6/30/11	6/30/10
Southwest	Florida Mesa Canal Companies (Florida Canal, Florida Farmers Ditch, Florida Enlargement Ditch, and the Florida Co-operative Ditch Company)	Ditch Loss, Hydropower, and Monitoring Improvement Program	Mar-09	\$100,000	\$0	\$100,000	Agricultural	9000000115	6/30/11	6/30/11
Southwest	Park Ditch Company	Park Ditch Improvements	Jul-09	\$85,000	\$0	\$85,000	Agricultural	10000000011	6/30/11	12/9/09
Southwest	La Plata Archuleta Water District	La Plata Archuleta Water District Permitting	Sep-09	\$0	\$400,000	\$400,000	Municipal & Industrial	C150459	6/30/13	10/18/12
Southwest	Lower Blanco Property Owners Association	Lower Blanco River Restoration Project	Sep-09	\$0	\$150,000	\$150,000	Needs Assessment	C150468	6/30/12	12/17/10
Southwest	San Juan Resource Conservation and Development - Animas Watershed Project	Animas River Needs Assessment	Sep-09	\$57,000	\$0	\$57,000	Needs Assessment	11000000028	9/30/12	4/28/11
Southwest	Mancos Conservation District	Mancos River Diversion Project, Phase I	Nov-09	\$24,753	\$0	\$24,753	Nonconsumptive	10000000111	12/30/10	6/7/11
Southwest	Mancos Valley Resources Inc.	Protecting Irrigated Agricultural Lands and Water Rights for Agricultural Production	Nov-09	\$31,500	\$0	\$31,500	Agricultural	10000000125	6/30/12	6/30/12
Southwest	Florida Mesa Canal Companies (Florida Canal, Florida Farmers Ditch, Florida Enlargement Ditch, and the Florida Co-operative Ditch Company)	Canal Seepage Reduction Project	Nov-09	\$0	\$225,000	\$225,000	Agricultural	C150463	6/30/11	6/30/11
Southwest	Norwood, Town of	Raw Water System Update and Future Needs Study	Jan-10	\$58,458	\$0	\$58,458	Municipal & Industrial	10000000085	6/30/11	6/30/11
Southwest	Florida Mesa Canal Companies (Florida Canal, Florida Farmers Ditch, Florida Enlargement Ditch, and the Florida Co-operative Ditch Company)	Canal Seepage Reduction Program	Sep-10	\$0	\$775,000	\$775,000	Agricultural	C150475	6/30/13	6/30/13
Southwest	Dolores Water Conservancy District	Totten Reservoir Hydrographic Survey	Nov-10	\$29,500	\$0	\$29,500	Agricultural	110000000114	12/31/11	12/28/11
Southwest	San Juan Citizens Alliance	A Way Forward: The Dolores River Below McPhee Reservoir	Nov-10	\$25,000	\$0	\$25,000	Nonconsumptive	12IBC0000011	12/31/12	3/16/12



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			CWCB Meeting	Basin Account Approved	Statewide Amount Approved	Total Request			Project Expiration Date	Final Date Closed
Basin	Applicant	Name of Water Activity					Type of Water Activity	Number		
Southwest	Animas La Plata Water Conservancy District	Recreational Plan for Lake Nighthorse	Nov-10	\$25,000	\$0	\$25,000	Nonconsumptive	12IBC000005		
Southwest	La Plata River and Cherry Creek Ditch Company	La Plata Cherry Creek Ditch Headgate Improvement Project	Nov-10	\$25,000	\$0	\$25,000	Agricultural	12IBC000014	8/31/12	6/11/12
Southwest	Aspen Springs Metro District	Aspen Springs Metro Water Filling Station	Nov-10	\$30,000	\$0	\$30,000	Municipal & Industrial	13IBC000002	7/31/13	6/30/13
Southwest	Rico, Town of	Town of Rico Alluvium Pipeline Water Supply Project - Well Drilling and Water Quality Testing	Mar-11	\$20,000	\$80,000	\$100,000	Municipal & Industrial	11000000122	6/30/12	3/16/12
Southwest	Montezuma Valley Irrigation Company	Improved Water User, Conservation, Management and Operations through the Implementation of Water Accounting Software	Sep-12	\$52,500	\$0	\$52,500	Agricultural	13IBC000012	12/31/14	1/22/14
Southwest	Red Mesa Dam & Reservoir Company	Red Mesa Dam & Reservoir – Spillway Alternatives Analysis	Sep-12	\$19,400	\$0	\$19,400	Agricultural	13IBC000009	9/30/13	9/27/13
Southwest	Animas Consolidated Ditch Company	Animas River Diversion Headgate Monitoring Study	Mar-13	\$14,500	\$0	\$14,500	Agricultural	13IB-23/14IBC-30	2/28/14	2/24/14
Southwest	Animas Valley Ditch & Water Company	Animas Valley Ditch & Water Co. Emergency Ditch Repair	Mar-14	\$23,000	\$0	\$23,000	Agricultural	4IBC000032	6/1/14	5/1/14
Southwest	Montezuma Valley Irrigation Company	Groundhog Reservoir Bathymetric Survey	May-14	\$20,000	\$0	\$20,000	Agricultural	12IBC000003		
Southwest	Red Mesa Dam & Reservoir Company	Red Mesa Dam Incremental Damage Analysis (IDA) and Emergency Action Plan (EAP)	May-14	\$30,000	\$0	\$30,000	Agricultural	10000000061		
Southwest Basin Total Request				\$1,327,611	\$3,750,000	\$5,077,611				
Number of Projects		34								
Yampa/White	Upper Yampa Water Conservancy District	Morrison Creek Reservoir Feasibility Study	Jul-07	\$49,500	\$0	\$49,500	Municipal & Industrial	8000000058	3/31/08	
Yampa/White	Moffat County	Agricultural Water Needs Assessment	Jan-08	\$0	\$0	\$0	Needs Assessment	C150418	12/31/10	12/31/10
Yampa/White	Steamboat Springs, City of	Common Data Repository	Jan-08	\$106,600	\$0	\$106,600	Other	C150423	6/30/10	12/29/10
Yampa/White	Vermillion Ranch	Sparks Reservoir	Jul-08	\$16,000	\$0	\$16,000	Agricultural	9000000039	12/31/08	
Yampa/White	Moffat County	Sandwash basin coalbed methane production depletive effects on water resources	Sep-08	\$20,000	\$98,835	\$118,835	Municipal & Industrial	C150435	6/30/11	6/8/11
Yampa/White	Colorado Foundation for Water Education	Headwaters Magazine - January 2010	Sep-09	\$20,000	\$0	\$20,000	Education	10000000050	6/30/10	6/30/10
Yampa/White	Community Agriculture Alliance, Inc.	Development and Implementation of Water Forums, Workshop, and/or Tours	Sep-09	\$10,000	\$0	\$10,000	Education	10000000046	6/30/11	12/31/10
Yampa/White	Colorado River Water Conservancy District	Yellow Jacket Water Storage Feasibility Study	Jan-10	\$220,800	\$0	\$220,800	Agricultural	C150472	6/30/13	
Yampa/White	The Nature Conservancy of Colorado	Yampa White Basin Nonconsumptive Needs Assessment	Jan-10	\$169,002	\$0	\$169,002	Nonconsumptive	C150466	6/30/12	6/30/12
Yampa/White	Rio Blanco Water Conservancy District	White River Storage Feasibility Study	Nov-13	\$67,500	\$67,500	\$135,000		C150546	6/30/14	6/5/14
Yampa/White Basin Total Request				\$679,402	\$166,335	\$845,737				
Number of Projects		10								