

COLORADO WATER CONSERVATION BOARD

DIRECTOR'S REPORT

SEPTEMBER 2013

STATE OF COLORADO

Colorado Water Conservation Board **Department of Natural Resources**

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TO: Colorado Water Conservation Board

FROM: James Eklund

> Brent Newman **CWCB Staff**

DATE: September 24-25, 2013

SUBJECT: **Agenda Item 5d**, September 2013 CWCB Board Meeting

Director's Report

John W. Hickenlooper

Governor

Mike King

DNR Executive Director

James Eklund **CWCB** Director

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~INTERSTATE AND FEDERAL~

COLORADO RIVER BASIN STUDY NEXT STEPS: The United States Bureau of Reclamation (BOR) and the Colorado River Basin States (Basin States) have continued to work with interested stakeholders to develop scopes of work for the three work groups focusing on three different subject areas—municipal conservation and reuse; agricultural conservation and transfers; and, environmental and recreational flows. Colorado is well represented on the workgroups and the Coordination Team, which is overseeing the entire effort. The membership list of the Coordination Team and the three workgroups is enclosed as Attachment 6. The Municipal conservation workgroup has finalized its scope of work, which is attached to this Director's report, also under Attachment 6. The other scopes of work will be finalized in the upcoming weeks, and they will be attached a future Director report. (*Ted Kowalski & Kevin Reidy*)

M & I WATER CONSERVATION/REUSE WORKGROUP MEETINGS: CWCB Staff (Kevin Reidy) attended the first U.S. Bureau of Reclamation M&I Water Conservation workgroup meeting in San Diego on August 14th. The meeting was very productive and the three Colorado members were able to share their water conservation expertise and tools with the group and contribute to refining the scope of work for Phase 1. The group is tasked with assessing the savings assumptions put forth in the Colorado River Basin Study and quantify savings to date within the study area and provide information on projected future water savings. The next meeting is scheduled for October 22. (*Kevin Reidy*)

WESTERN STATES WATER COUNCIL HOLDS SUMMER MEETING: The Western States Water Council ("WSWC") held its annual summer meeting on June 24-26, 2013 in Casper, WY. John Stulp and Dick Wolfe represented Colorado at these meetings. Recently, Governor Hickenlooper named James Eklund to replace Jennifer Gimbel as Colorado's representative to WSWC along with a number of alternates. A copy of this letter is enclosed as Attachment 9. The fall WSWC meeting will be held in Deadwood, South Dakota, on October 2-4, 2013. More information about the WSWC, and the upcoming meetings, can be found at: http://www.westernstateswater.org/171st-spring-council-meeting-april-3-5-2013-denver-colorado/ (Ted Kowalski)

WSWC DROUGHT IMPACTS MEETING IN SAN DIEGO, CA: The Western States Water Council and the California Department of Water Resources cosponsored a workshop on quantifying drought impacts August 5-7th, in San Diego. Better measurement and reporting of observed drought impacts help identify lessons learned from droughts, and help define resources needed to mitigate future drought impacts. Yet, data quantifying impacts of drought, if available, are often not readily accessible in a manner useful for water agencies. This workshop aimed to develop a strategy for building a centralized information source, by bringing together state, local, and federal agencies to discuss ways to improve quantifying impacts and making information available. CWCB Staff (Taryn Finnessey) attended and contributed to the workshop. (*Taryn Finnessey*)

COLORADO RIVER WATER USE: As of August 1, 2013, the Lake Mead water level was at 1105.9 feet with 12.27 million acre-feet (MAF) of storage, or 47% of capacity, while the Lake Powell water level was at 3594.2 feet with 11.20 MAF of storage, or 46% of capacity. Total

system active storage as of August 1 was 30.30 MAF, or 51% of capacity, which is 5.03 MAF less than one year ago when system storage was 59% of capacity.

As of August 2, the 2013 Reclamation forecast for the Lower Basin states' consumptive use of Colorado River water totals 7.31 MAF, which includes Arizona at 2.71 MAF, California at 4.34 MAF, and Nevada at 0.265 MAF. The preliminary end-of-year estimate for 2013 for California's agricultural consumptive use of Colorado River water is 3.455 MAF. The Metropolitan Water District of Southern California is forecasted to use approximately 0.794 MAF. (*Andy Moore*)

EKLUND NOMINATED TO COLORADO RIVER BASIN SALINITY CONTROL FORUM AND ADVISORY COUNCIL: On July 13th, CWCB Director James Eklund was nominated by Governor Hickenlooper to serve on the Colorado River Basin Salinity Control Forum and Advisory Council. Eklund joins Steve Gunderson, Director of the Colorado Water Quality Control Division, and David Robbins, citizen representative. The Forum and Advisory Council are a cooperative effort between basin states and the federal government, seeking to reduce the amount of salt in the Colorado River through technical study and project implementation. Mr. Eklund's nomination letter and welcoming memo from the Forum are enclosed as Attachment 7. (*Brent Newman*)

GLEN CANYON DAM ADAPTIVE MANAGEMENT WORK GROUP ("AMWG") AND TECHNICAL WORK GROUP ("TWG") MEETINGS: The Glen Canyon AMWG summer meeting was held in Flagstaff, Arizona on August 8-9, 2013. The primary agenda items included: budget issues, the Long Term Experimental and Management Plan ("LTEMP") process, and the High Flow Experimental Protocol implementation. Prior to this AMWG meeting, the Bureau of Reclamation ("BOR") and the National Park Service ("NPS") held a workshop in order to collect information about the various alternatives. This workshop used a Strategic Decision Making ("SDM") analysis to consider the possible effects that the various alternatives may have on critical resources. After this workshop and the AMWG meeting, the seven basin state representatives sent a letter expressing their concerns with the metrics and with regard to using the SDM process. This letter is attached to this Report as Attachment 8. Presently, the USBOR and NPS are intending to release a draft EIS by the end of 2013 or in early 2014. Information is available at:

http://www.usbr.gov/uc/rm/amp/amwg/amwg mtginfo.html or http://ltempeis.anl.gov/index.cfm Later in August, Governor Hickenlooper recommended that John McClow replace Jennifer Gimbel as the AMWG representative for Colorado. A copy of this nomination letter is enclosed as Attachment 5. (*Ted Kowalski*)

ICWP ANNUAL CONFERENCE TO BE HELD IN DENVER: The Interstate Council on Water Policy (ICWP) will be holding their Annual Conference in Denver on October 15-17, 2013. With the goal to "invigorate and realign the ICWP's next efforts as an advocate in national water policy development", the program features a keynote address by Director Eklund and presentations by other CWCB staff members. For more information on this event, visit http://www.icwp.org.php53-16.dfw1-2.websitetestlink.com/icwp-annual-meeting-2013. (Brent Newman)

~STATEWIDE~

DROUGHT UPDATE: Following above average temperatures in July, August began cool but warmed substantially the last two weeks of the month ending with above average temperatures for most of the state. Strong July and August rains have also helped to keep municipal demand lower, while elevating drought conditions across large portions of the state. Reservoir storage, especially across southern Colorado, remains quite low and providers are hoping for a strong snow accumulation season to fill the deficit. Monsoonal moisture on the eastern plains has brought much needed relief to the agricultural community, but soil moisture remains low and a full recovery will take years. (*Taryn Finnessey*)

GROUND WATER COMMISSION MEETING: The Ground Water Commission (GWC) held its quarterly meeting on August 16, 2013, in Pueblo, CO. The agenda items included routine reports and a hearing on a request for a variance to Rules 7.3.1, 7.3.2, 7.3.3 and 7.3.4 to allow for the relocation of a well by Verna Marlene Hill. A hearing was also held on an appeal of the Hearing Officer's decision in the Meridian Case that found that a portion of the precipitation that falls within the designated basins to be designated groundwater. The decision also found that water diverted through french drains and released to the surface is also designated groundwater. The GWC approved the variance request and upheld the Hearing Officer's decision. Also during the meeting, the Ground Water Management Districts (GWMD) indicated that they intend to pursue, during the next legislative session, proposed legislation that would grant GWMD enforcement authority and the ability to impose fines. The Ground Water Commission will hold its next regular meeting on November 15, 2013 in Castle Rock, CO. For more information visit: http://water.state.co.us/groundwater/CGWC/Pages/default.aspx. (Suzanne Sellers)

~COLORADO RIVER BASIN~

RED CANYON FIRE EVALUATED: Staff from the Watershed and Flood Protection Section met with local, state, and federal partners on August 22 to assess potential flooding impacts from the Red Canyon Fire. The Red Canyon Fire burned 390 acres immediately southwest of Glenwood Springs. This represents nearly one third of the tributary area of Red Canyon draining to the Roaring Fork River upstream of Glenwood Springs. The group concensus following the meeting was that structural susceptibility to flooding was much less than in other recent fires from around the state, but impacts to Highway 82 could be significant due to debris and flooding across the highway following rain events. Triggers for warnings from the National Weather Service and other emergency protocols were established. As of September 9th, no highway closures were noted. (*Kevin Houck*)

~ARKANSAS RIVER BASIN~

ARKANSAS BASIN DROUGHT IMPACT TOUR RECAP: August 12th the Drought Task Force and CWCB held a drought impact tour in the Arkansas River Basin. Attendees met with producers, water managers and area leaders to discuss the drought impacts from the last three years of well below average precipitation. The tour was extremely well attended and included cabinet members, legislators, and senior leadership and staff from many state and federal

agencies. A community meeting was also held in Lamar in which local citizens were able to voice their concerns regarding drought preparedness and management. (*Taryn Finnessey*)

TWO BUTTES DAM EMERGENCY IN BACA COUNTY: On August 13, 2013, the State Engineer' Office (SEO) - Dam Safety Branch requested access to CWCB's emergency dam failure/action funds (\$50,000). The action was necessary due to a pattern of monsoonal precipitation in the area and an undersized spillway. This resulted in the State Engineer authorizing emergency actions pursuant to statute.

Two Buttes is a high hazard dam located in Baca County, northeast of Springfield, CO. The dam was constructed in 1910 and has been owned by Colorado Parks and Wildlife (CPW) since the 1970's. It is part of the Two Buttes State Wildlife Area.

In the 1980's the SEO placed a storage restriction on the dam based on the hazard classification and an inadequate spillway capacity. The dam filled very rapidly in early August and DNR declared a dam emergency, which allowed CPW quickly hire contractors and an engineering firm to help solve the problem. CPW worked with the SEO to widen the existing earthen spillway to protect the dam. The spillway was widened by 125-ft,(approx. 58,000 cyds of excavation). This solution removed the immediate threat and allows CPW to store to gage height 32ft. CPW is working on a incremental damage assessment and hazard classification for the dam to help reduce the hazard classification from high to significant. (*Kirk Russell*)

HICKENLOOPER NOMINATES FEDERAL REPRESENTATIVE TO ARCA: On

August 23, 2012, Governor Hickenlooper sent a letter to President Obama requesting that James Rizzuto of La Junta be designated as the next Federal Representative to the Arkansas River Compact Administration (ARCA). The Bylaws of the Administration provide that the President's representative serve as the Chairman and preside at meetings. Mr. Rizzuto has served in the Colorado General Assembly, and is a lifelong resident of the Arkansas Valley. His nomination letter is included as Attachment 4. (*Brent Newman*)

~PLATTE RIVER BASIN~

PLATTE RIVER RECOVERY PROGRAM: The Platte River Recovery Implementation Program ("Program") Governance Committee has not met since the last CWCB meeting. However, a Notice to Proceed (NTP) was issued on August 30, 2013 to begin the J2 Reregulating Reservoir Project. CWCB staff participated in Water Advisory Committee, Technical Advisory Committee, Land Advisory Committee, and Finance Committee conference calls and meetings. The next Governance Committee meeting will be held on September 10-11, 2013 in Kearney, NE. For more information, please visit: http://www.platteriverprogram.org/Pages/default.aspx. (Suzanne Sellers)

~SAN JUAN/SAN MIGUEL-DOLORES RIVER BASIN~

DOLORES RIVER MANAGEMENT COORDINATION WORKSHOP: On Friday, October 18, a Dolores River Management Coordination (DRMC) Workshop will be held at the Naturita Community Center in Naturita, CO. The Colorado Water Conservation Board (CWCB), the Colorado River Water Conservation District (CRWCD) and the Southwestern Water Conservation District (SWCD) are convening this one-day workshop to bring together

various stakeholders to discuss Dolores River management issues. The discussion will include: existing and proposed Wild and Scenic suitability for reaches of the Dolores River from McPhee Reservoir Dam to the Colorado state line; the existing and proposed Instream Flows (ISF) water rights for portions of the Dolores River, and other alternative protections for portions of the Dolores River. (Suzanne Sellers & Brent Newman)

~AGENCY UPDATES~

2013 IMPLEMENTATION OF 2012 ISF TEMPORARY LEASES: In 2012, the CWCB approved three temporary instream flow ("ISF") leases under the Colorado Water Trust's Request for Water 2012 program, and one interagency agreement to loan water for ISF use with Colorado Parks and Wildlife. On September 4, 2013, the CWCB Director executed an agreement with the Colorado Water Trust and Aspen Shorefox, LLC to implement the temporary lease of the Bunte Highline Ditch for a second year (see table below). CWCB and CPW staff members continue to monitor conditions on the White River and if the need arises, will notify the Division of Water Resources of releases from the Reservoir for ISF use (see table below). A renewal of the lease with the Yampa Water Conservancy District and Colorado Water Trust of water stored in Stagecoach Reservoir is on the Board's agenda (#13). (Linda Bassi)

ISF Reaches Benefited	Lessor	Ditch-Reservoir /	Amount
		Priority	Leased
Colorado River (5-90CW300 and 5-80CW446,	Aspen-Shorefox,	Bunte Highline	
447 and 448)	LLC	(Priority No. 168):	17.82
Willow Creek to Fraser River, 3.4 miles		1911	cfs
• Windy Gap to Williams Fork, 14.7 miles		(Priority No. 459):	14.14
Williams Fork to Troublesome Creek, 8		1955	cfs
miles		(Priority No. 491):	8.04 cfs
• Troublesome Creek to Blue River, 8 miles		1955	
Big Beaver Creek (5-77W3652E)	Colorado Parks	Lake Avery Reservoir	3,000
Outlet of Lake Avery Reservoir (a/k/a Big	and Wildlife	a/k/a Big Beaver	AF
Beaver Creek Reservoir) to confluence with the		Creek Reservoir	
White River			
White River (5-77W3652C)			
Confluence of North Fork and South Fork of			
White River to confluence with Piceance Creek			

UPDATE ON TEMPORARY LEASE FROM WINTER PARK RANCH WATER AND SANITATION DISTRICT: At its July 2013 meeting, the Board ratified the Director's acceptance of a temporary lease of water from the Winter Park Water and Sanitation District ("District") for ISF use on St. Louis Creek and the Fraser River. The ISF water rights that will benefit from the lease are:

Case No.	Stream	Segment	Approp Date	Segment Length	Amount
5-90CW316	St. Louis Creek	King Creek to Tyron Ditch div ¹	11-27-1990	4.2 miles	6 cfs (5/15 – 9/15) 3.5 cfs (9/16 – 5/14)
5-90CW315	Fraser River	St. Louis Creek to Ranch Creek	11-27-1990	4.2 miles	17 cfs (5/15 – 9/15) 11 cfs (9/16 – 5/14)
5-90CW308	Fraser River	Ranch Creek to Crooked Creek	11-27-1990	0.7 miles	17 cfs (5/15 – 9/15) 11 cfs (9/16 – 5/14)
5- 90CW308B	Fraser River	Crooked Creek to Colorado River	11-27-1990	13.2 miles	30 cfs (5/15 – 9/15) 19 cfs (9/16 – 5/14)

CWCB staff has coordinated with the Colorado Water Trust and the District to install two staff gages (one on St. Louis Creek and one on the Fraser River) to enable implementation of the lease. In late August, leased water was used to supplement the lower ISF reach on the Fraser River. (*Linda Bassi*).

COLORADO LAW INSTITUTE HOSTING CLE: The Colorado Law Institute of CLE International will be holding their Second Annual Local Conference in Denver on October 21, 2013 at the Grand Hyatt Hotel. This conference focuses on the challenges facing managers on the Colorado River, and features a keynote address by Mike King, Executive Director of the Colorado Department of Natural Resources. Ted Kowalski of the CWCB staff will also be presenting, along with several agency partners from across the state. For more information visit https://cle.com/upperbasin. (*Brent Newman*)

USCID WATER MANAGEMENT CONFERENCE IN DENVER: The U.S. Society for Irrigation and Drainage Professionals will be hosting a Water Management Conference in Denver on October 22-25, 2013 at the DoubleTree by Hilton Denver. The title of the conference is "The Agriculture/Urban Water Interface - Conflicts and Opportunities". CWCB staffers will be presenting at the conference, which will investigate how "urban and irrigation interests can work together to meet future water needs given limited supplies. For more information on the conference visit http://www.uscid.org/13coconf.html. (*Brent Newman*)

FREE NASA ONLINE COURSE FOR WATER PROFESSIONALS: From October 17 – November 14, 2013, NASA will be offering a free online course as part of their outreach and education to water users. The course contains an overview of freely available NASA earth science data and web-tools for decision-making and water resources management from regional to global scales. It will help professionals assess which NASA data and decision support tools are best suited to their environmental management needs. This course is intended for water resources managers, water user associations, NGOs, international development agencies, and private sector organizations. Topics covered include remote sensing, atmosphere and land models, satellites, sensors, and models, soil moisture and evapotranspiration, reservoir height and ground water, and web tools for data access and imaging. Information about this free course can be found at: http://water.gsfc.nasa.gov/index.php?section=23 (Joe Busto)

WATERSHED/WILDFIRE ASSESSMENTS: Staff has been presenting to various organizations around the state (including Basin Roundtables) on the importance of pre-fire mitigation strategies. Staff is recommending that communities consider Watershed/Wildfire

Assessments. The CWCB Colorado Watershed Restoration Program is a source of potential grant funding for these Assessments.

Watershed/Wildfire Assessments provide strategies for water providers, land management agencies, private landowners, environmental and watershed groups, state and local governments, local fire authorities, and water users to identify and prioritize the type and specific location of treatments necessary to reduce the risk of impacts that occur to hydrologic processes in a post-fire environment. The plans provide specific actions needed to protect reservoirs, intakes, water transportation and distribution structures, and other facilities from high-severity wildfires. Assessments identify locations of hazardous fuels and areas prone to post-fire flooding. Fuel treatments can be designed to reduce the risk to water infrastructure. Pre-fire mitigation strategies should identify locations for sediment check structures, contour log felling, sediment catchment basins, constructed alluvial fans, and other treatments designed dissipate flood energy. (*Chris Sturm*)

FLOOD MITIGATION PLAN UPDATE: CWCB has contracted with AMEC to update the State of Colorado's Flood Mitigation Plan (Plan). This plan will be used to meet the requirements of the State of Colorado's Natural Hazard Mitigation Plan and will comply with all Federal Emergency Management Agency (FEMA) guidelines and criteria for natural hazard mitigation planning. It will also include an updated flood vulnerability assessment which provides the necessary data to create a comprehensive mitigation strategy. This will be used to meet FEMA requirements but will also guide the State in determining risk and vulnerability of assets and how to mitigate impacts.

Critical to the update of the Plan is an analysis of events since 2010, actions taken during those events, how those events impacted Colorado, and any recommended actions that should be taken during future events. The update of the risk assessment and mitigation strategies will focus on post-wildfire flooding.

This project will result in an updated Flood Mitigation Plan that will be incorporated into the Colorado State Multi-Hazard Mitigation Plan. Multiple state agencies will be included in the Plan preparation process and it will ultimately be adopted by the Governor. The Plan is scheduled to be completed by November 2013. (*Jamie Prochno*)

POST-WILDFIRE FLOOD INSURANCE WORKSHOPS: CWCB has been coordinating with communities affected by wildfires this summer to provide information to citizens about flood insurance. Because wildfires can cause increased erosion and flooding, this outreach is an important part of post-fire communication to residents. Additionally, Congress passed legislation adding an exception to the standard 30-day wait for new flood insurance policies for property owners affected by flooding resulting from wildfires on federal land. Flood Insurance Workshops were held in South Fork and Walsenburg to explain the basics of flood insurance and changes to legislation affecting Colorado. (*Jamie Prochno*)

CWCB WATER EFFICIENCY GRANT FUND PROGRAM (WEGP) UPDATE: Over the last few years of research/projects along with evaluating this grant program, CWCB staff is identifying trends in water efficiency & drought planning and implementation. It is an on-going discussion as staff considers a guideline update for this grant program.

One grant application was received, considered & reviewed since the July 2013 Director's Report

• City of Lafayette – Pre Rinse Spray Nozzle Replacement

One grant has been approved since the last Board meeting:

• St Charles Mesa Water District – Water Meter Replacement (\$49,616.66)

Deliverables to the CWCB are as follows:

- East Larimer County Water District Water Rate Study *submitted 75% Progress Report*
- **City of Longmont** Rebate Program *submitted Final Report*
- Left Hand Water District Commercial Audit Program *submitted Final Report* (*Ben Wade*)

WATER EFFICIENCY & DROUGHT PLANS UPDATE: The Office of Water Conservation & Drought Planning (OWCDP) continues to work with the following providers to approve their Water Efficiency and Drought Management Plans:

DROUGHT MANAGEMENT PLANS

Plans in review

Pagosa Area Water and Sanitation District – The District submitted a draft Drought
Management Plan in January, CWCB has reviewed the plan and provided feedback to the
District and they are working to incorporate CWCB comments. (Taryn Finnessey &
Ben Wade)

WATER EFFICIENCY PLANS

Approved Plans

The following plans have been given *conditional approval*. CWCB staff will continue to work with these entities until their respective Water Efficiency Plans achieve approval status.

- City of Trinidad
- Meridian Metro District
- City of Loveland
- City of Englewood

Water Efficiency Plans in review

- Monument, Palmer Lake and Tri-View Metro District-Received on July 16, this regional plan is in review
- Town of La Junta Final review of the Plan was completed by CWCB staff in April 2011 and additional comments were sent back to the Town in May 2011. Resubmission pending.
- South Adams County Water & Sanitation District CWCB received the Plan on November 3, 2011. CWCB staff reviewed the plan and sent comments to the District on January 30, 2012. Resubmission pending. (*Kevin Reidy & Ben Wade*)

GOVERNOR'S WATER AVAILABILITY TASK FORCE: The next Water Availability Task Force on September 18, 2013 from 9:30-11:30am at the Colorado Parks & Wildlife Headquarters, 6060 Broadway, Denver, CO in the Bighorn Room. Please check the website (http://cwcb.state.co.us/public-information/flood-water-availability-task-forces/Pages/main.aspx) for additional information. (*Ben Wade*)

WATER CONSERVATION TECHNICAL ADVISORY GROUP (WCTAG) UPDATE:

The WCTAG met on August 28th and had a couple of presentations. First, Amelia Nuding from Western Resource Advocates presented on an innovative program to bring water and energy utilities together around collaborative projects that save water and energy. To date, she has met with several Front Range water utilities in order to team them up with Xcel energy. Second, the group had a discussion regarding the outdoor water conservation recommendations made by the IBCC Water Conservation Subcommittee in their 2010 Letter to Governors. Brenda O'Brien from Green Industries of Colorado and Drew Beckwith from Western Resource Advocates brought forth several ideas for the group to discuss. The group focused on the idea of pursuing a statewide set of certifications for green industry professionals. Additionally, the group thought a set of model landscape/irrigation standards would also be needed for local jurisdictions to adopt or adapt to their needs. This discussion will continue over the coming months. The WCTAG will have a workshop to run through the 1051 Web Portal on Sept. 18th with a testing phase to follow after feedback has been incorporated. (*Kevin Reidy*)

1051 REPORTING WEB PORTAL UPDATE: The Web Portal is on schedule with the consulting team building the database and website. Kevin Reidy provided the team with comments and feedback on the layout and data categories along with creating a list of reports that the CWCB wants to be built in. As mentioned in the WCTAG report, there will be a workshop to unveil the portal to the group and to work through the design, content and functionality of the portal with the group. A testing period will follow for the next few months with the final ready in January 2104. (*Kevin Reidy*)

UPDATE TO THE 2008 CLIMATE CHANGE IN COLORADO REPORT: CWCB is in the process of contracting with Western Water Assessment for a comprehensive update to the 2008 *Climate Change in Colorado: A Synthesis to Support Water Resources Management and Adaptation.* The IPCC is releasing its Fifth Assessment Report (AR5) starting in fall 2013, based on the latest generation of climate models, the output of which is already accessible today. The release of these new reports will capture the attention of numerous decision makers across Colorado, and we believe that having an updated Climate Change in Colorado report available at the same time will be critical to helping address climate change concerns across the state.

Although the new IPCC and NCA reports will not overturn the 2008 report's key findings about the character and impacts of future climate change, they will add important nuance and detail. In particular, these syntheses now cover critical climate-related impacts and feedbacks that were not addressed in the 2008 report, such as dust-on-snow events and bark beetle epidemics. (*Taryn Finnessey*)

THE AGRICULTURAL EMERGENCY DROUGHT (AED) GRANT PROGRAM: The Agricultural Emergency Drought (AED) Grant Program provides up to \$1 million annually for emergency drought-related water augmentation purposes to Colorado's agricultural water users. The program is open to agricultural organizations located in areas where a disaster emergency

has been proclaimed due to drought. Grant funds are used to offset the added costs of leasing water during drought years.

All requests are reviewed by the AED grant committee. The committee is comprised of the Director of the CWCB, the State Engineer, the Commissioner of Agriculture and the Executive Director of the Department of Natural Resources. (*Taryn Finnessey*)

Here is a summary of the FY 2014 requests to date:

	REQUESTED	RECOMMENDED				
SPONSOR	AMOUNT	AMOUNT				
Lower Arkansas Water Management Association	\$ 103,899.28	\$ 103,899.28				
Logan Well Users, Inc.	\$ 339,827.00	\$ 339,437.66				
Lower Arkansas Valley Water Conservancy District	\$ 95,940.54	\$ 95,940.54				
Arkansas Groundwater Users Association	\$ 200,821.00	\$ 200,821.00				
Colorado Water Protective and Development Association	\$ 245,238.00	\$ 115,874.85				
FUNDING SUMMARY						
TOTAL GRANT AMOUNT AVALIABLE TO DATE						
(FY14)		\$1,000,000				
RECOMMENDED FUNDING (if pending grants are approved as						
recommended) \$885,973.33						
REMAINING FUNDS AVAILABLE (if pending grants are approved as						
recommended)		\$144,026.67				

REQUESTS FOR ADMINISTRATION OF ISF WATER RIGHTS: From April through September 2013, staff, on behalf of the Board, placed calls for administration of the following ISF water rights. Staff was alerted to low flow conditions via the flow alert system. The Division Engineers have worked diligently to enforce the calls through the curtailment of junior rights and/or through the implementation of various augmentation plans.

STREAM NAME	CASE NUMBER	DATE OF FORMAL WRITTEN
		CALL
Slate River	4-80CW092	September 4, 2013
Elk River	6-77W1279	August 21, 2013
	6-77W1331	
Pine Creek	2-77W4674	May 13, 2013
Taylor River	4-87CW264	April 19, 2013

The call letters and detailed information on the Board's rights that were administered can be found on the CWCB's web page at:

http://cwcb.state.co.us/StreamAndLake/Physical/AdministrativeCalls/ (Jeff Baessler)

RECENTLY DECREED ISF WATER RIGHTS: On June 27, 2013, the Division 1 Water Court decreed an instream flow water right to the CWCB on Forrester Creek in Case No. 1-12CW272 for 1.7 cfs (5/1-8/31), 1.1 cfs (9/1-10/31) and 0.7 cfs (11/1-4/30), with an appropriation date of March 21, 2012. The upstream terminus is the headwaters and the lower

terminus is the Forrester Creek Ditch headgate. This ISF reach is approximately 6.87 miles long and flows in a northeasterly direction through parts of Larimer County.

On June 27, 2013, the Division 1 Water Court decreed an instream flow water right to the CWCB on Grace Creek in Case No. 1-12CW273 for 5.5 cfs (5/1-8/15), 3.6 cfs (8/16-10/31) and 2.0 cfs (11/1-4/30), with an appropriation date of March 21, 2012. The upstream terminus is the confluence with the North Fork and South Fork of Grace Creek and the lower terminus is the Grace Creek Ditch headgate. This ISF reach is approximately 2.46 miles long and flows in a northeasterly direction through parts of Larimer County. (*Rob Viehl*)

STREAM AND LAKE PROTECTION SECTION DE MINIMIS CASES: The following table summarizes applications that have the potential to injure the Board's instream flow water rights, but the impact is considered de minimis. In these cases, the cumulative impact to the Board's right is less than 1%. Pursuant to ISF Rule 8(e) (the de minimis rule), staff has not filed a Statement of Opposition in this case and has provided the required notification to the Division Engineer and applicant. (*Rob Viehl*)

Case No.	Applicant	Stream/ Case Number	ISF Amount	<u>Percent</u> Injury	Cumulative % Injury	Previous Cases
7-13CW3004	John M. Parkinson	Florida River/ 7-77W1763	7 cfs (summer) 14 cfs (winter)	0.1226 % 0.0495 %	0.9888 % 0.4681 %	24
7-13CW3004	John M. Parkinson	Florida River/ 7-77W1764	12 cfs (summer) 20 cfs (winter)	0.0715 % 0.0347 %	0.3023 % 0.1123 %	11

NEW CWCB EMPLOYEE: Please join us in welcoming Jennifer Egger to the CWCB. Jennifer officially joined the CWCB on August 26, 2013 in the role of the Front Desk Administrative Assistant. We look forward to working with Jennifer and having her as a part of our team! (*Tina Heltzel*)

~ATTACHMENTS~

- 01 Instream Flow and Natural Lake Level Program Summary of Resolved Opposition Cases
- 02 Finance Current Prequalified Project List and Loan Prospect Summary
- 03 Finance Design and Construction Status Report
- 04 Nomination Letter James Rizzuto to Arkansas River Compact Administration
- 05 Nomination Letter John McClow to Colorado River Adaptive Management Work Group
- 06 Colorado River Basin Study Next Steps M & I Conservation and Reuse Workgroup Scope of Work and Membership List
- 07 Appointment of James Eklund to Colorado River Basin Salinity Control Forum and Advisory Council
- 08 Colorado River Basin States Letter Comments Following the Glen Canyon
 Dam Long-Term Experimental and Management Plan Environmental Impact
 Statement Stakeholder Workshop Held August 5-7, 2013, in Flagstaff, Arizona
- 09 Nomination Letter James Eklund to Western States Water Council
- 10 Finance Colorado Water Conservation Board (CWCB) Non-Reimbursable Investments Status Report
- 11 WSRA Open Grant Projects Board Approved Not Yet Contracted
- 12 WSRA In Progress Projects
- 13 WSRA Completed Projects

September 24-25, 2013 Board Meeting Instream Flow and Natural Lake Level Program Summary of Resolved Opposition Cases

The Board's Instream flow ("ISF") Rule 8i. states that:

"In the event the pretrial resolution includes terms and conditions preventing injury or interference and does not involve a modification, or acceptance of injury or interference with mitigation, the Board is not required to review and ratify the pretrial resolution. Staff may authorize its counsel to sign any court documents necessary to finalize this type of pretrial resolution without Board ratification."

Staff has resolved issues of potential injury in the following water court cases and authorized the Attorney General's Office to enter into stipulations that protect the CWCB's water right(s):

(1) Case No. 1-05CW295 Application of City of Lafayette

The Board ratified this statement of opposition at its March 2006 meeting. The Board's main objective in filing the statement of opposition in this case was to ensure that the Applicant's proposed plans for augmentation and changes of water rights do not injure the Board's instream flow water rights on South Boulder Creek and Boulder Creek by expansion of use or by not replacing out-of-priority depletions in proper time, place, or amount. Staff, in cooperation with the Attorney General's Office, has negotiated a settlement to ensure that the CWCB's instream flow water rights will not be injured.

CWCB Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed	County
1-80CW379A	South Boulder	15/6	12/02/1980	South Boulder	Boulder
	Creek			Creek	
1-74W7636	Boulder Creek	15	10/01/1973	Boulder Creek	Boulder

In addition to standard terms regarding measuring devices, accounting and retained jurisdiction, the Applicant has agreed to the following additional protective terms and conditions:

- "[d]iversions at the alternate points described in Paragraph Nos. 7(iv), 7(v), 7(vi) and 7(vii) shall only be made when the instream flow water right decreed to the CWCB in Case No. 80CW379A is satisfied, and diversions at the alternate point described in Paragraph No. 7(x) shall only be made when the instream flow water rights decreed to the CWCB in Case Nos. 80CW379A and 80CW379 are satisfied."
- "If an exchange involves moving water upstream on South Boulder Creek for diversion at the points described in Paragraph Nos. 7(iv), 7(v), 7(vi) and 7(vii), the exchange shall only be operated when the instream flow right decreed to the CWCB in Case No. 80CW379A is satisfied. If an exchange involves moving water upstream on South Boulder Creek for diversion at the point described in Paragraph No. 7(x), the exchange shall only be operated when the instream flow rights decreed to the CWCB in Case Nos. 80CW379A and 80CW379 are satisfied. To the extent that an exchange up South Boulder Creek involves the reach of Boulder Creek between 75th Street and the confluence of Boulder Creek and South Boulder Creek, the exchange shall only be operated when the instream flow right decreed to the CWCB in Case No. W-7636-74 is satisfied."

(2) Case No. 4-08CW180 – Application of Jackson Shaw Taylor River Ranch, LLC

The Board ratified this statement of opposition at its March 2009 meeting. The Board's main objective in filing the statement of opposition in this case was to ensure that the Applicant's proposed plans for augmentation and change of use do not injure the Board's instream flow water rights on Spring Creek and

the Taylor River by expansion of use or by not replacing out-of-priority depletions in proper time, place, or amount. Staff, in cooperation with the Attorney General's Office, has negotiated a settlement to ensure that the CWCB's instream flow water rights will not be injured.

The CWCB holds the following ISF water rights that could have been injured by this application:

CWCB Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed	County
4-84CW368	Spring Creek	7.5	5/4/84	Taylor River	Gunnison
4-87CW264	Taylor River	200/80	10/2/87	Taylor River	Gunnison

The Decree was entered on August 21, 2013.

In addition to standard terms regarding measuring devices, accounting and retained jurisdiction, the Applicant has agreed to the following:

- The decree now includes maps and descriptions of all facilities including four flow-through systems that dewater the instream flow reaches on the Taylor River and Spring Creek. Curtailment language for CWCB calls of these flow-through systems is included in the decree.
- Applicant withdrew its plan for augmentation claim, including a claim to augment a domestic well with water to be provided downstream.
- CWCB granted a C.R.S. Section 37-92-102(3)(b) exception for the Rarick Gulch diversion.

(3) Case No. 5-95CW272B – Application of City of Colorado Springs and City of Aurora

The Board ratified this statement of opposition at its March 1996 meeting. The Board's main objective in filing the statement of opposition in this case was to ensure that the Applicant's proposed change of water rights and exchange, and plan for augmentation, does not injure the Board's instream flow water rights within the Eagle River basin by not replacing out-of-priority depletions in proper time, place, or amount. Staff, in cooperation with the Attorney General's Office, has negotiated a settlement to ensure that the CWCB's instream flow water rights will not be injured. This case was bifurcated. The surface components decree (95CW272A) was entered on March 16, 2011.

The Board holds 17 instream flow water rights in the upper Eagle River basin that could have been injured by this application.

The remaining groundwater component of this case was dismissed without prejudice per Order on 8/23/2013.

(4) Case No. 5-03CW292 – Application of Eagle Park Reservoir Company

The Board ratified this statement of opposition at its March 2004 meeting. The Board's main objective in filing the statement of opposition in this case was to ensure that the Applicant's proposed plan for augmentation does not injure the Board's instream flow water rights on the Eagle River, by not replacing out-of-priority depletions in proper time, place, or amount.

The CWCB holds the following ISF water rights that could have been injured by this application:

CWCB Case	Stream/Lake	Amount	Approp.	Watershed	County
No.		(cfs)	Date		
5-78W3805	Eagle River	12/6	5/12/78	Eagle River	Eagle
5-78W3811	Eagle River	15/8	5/12/78	Eagle River	Eagle
5-78W3788	Eagle River	25/11	5/12/78	Eagle River	Eagle
5-78W3796	Eagle River	50/20	5/12/78	Eagle River	Eagle
5-80CW134	Eagle River	85/35	3/17/80	Eagle River	Eagle
5-80CW126	Eagle River	110/45	3/17/80	Eagle River	Eagle
5-80CW124	Eagle River	130/50	3/17/80	Eagle River	Eagle

5-79CW363	Egeria Creek	4	12/05/79	Colorado River	Routt
5-95CW290	Egeria Creek	8/2	11/06/95	Colorado River	Routt

This case was dismissed without prejudice by Order dated September 3, 2013.

(5) Case No. 5-04CW202 – Application of Wildcat Ranch Association and the Snowmass Water and Sanitation District

The Board ratified this statement of opposition at its March 2005 meeting. The Board's main objective in filing the statement of opposition in this case was to ensure that the Applicant's proposed plans for augmentation and exchange do not injure the Board's instream flow water rights on Snowmass Creek and the Roaring Fork River by not replacing out-of-priority depletions in proper time, place, or amount. Staff, in cooperation with the Attorney General's Office, has negotiated a settlement to ensure that the CWCB's instream flow water rights will not be injured.

The CWCB holds the following ISF water rights that could have been injured by this application:

CWCB Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed	County
5-76W2943	Snowmass Creek	9/4 cfs	1/14/76	Roaring Fork River	Pitkin
5-92CW280	Snowmass Creek	3 cfs	9/15/92	Roaring Fork River	Pitkin
5-76W2943A	Snowmass Creek	12 cfs	1/14/76	Roaring Fork River	Pitkin
5-92CW281	Snowmass Creek	10.5 cfs	9/15/92	Roaring Fork River	Pitkin
5-76W2943B	Snowmass Creek	12/11cfs	1/14/76	Roaring Fork River	Pitkin
5-85CW646	Roaring Fork River	55/30	11/08/85	Roaring Fork River	Pitkin
5-85CW639	Roaring Fork River	145/75	11/08/85	Roaring Fork River	Pitkin

In addition to standard terms regarding measuring devices, accounting and retained jurisdiction, the Applicant has agreed to the following:

- As a result of time spent by Applicant and CWCB clarifying the Applicants' intent and claims in this case, augmentation plan assumptions were detailed in the decree.
- Exchange reaches and amounts were clarified and the following Term is included in the decree: "The exchange or any portion thereof described herein shall only operate in priority, and shall only operate at times and to the extent that all existing decreed instream flow rights decreed in Case Nos. 76CW2943, 92CW280, 76W2943A, 92CW281, 76W2943B, 85CW646, 85CW639 located within the pertinent exchange stream reaches are being satisfied. Applicants shall curtail out-of-priority diversions pursuant to this decree at times when they are unable to augment by exchange. The exchange shall be operated under the assumption that diversions are 100% depletive to Snowmass Creek."

(6) Case No. 5-10CW060 – Application of River Valley Ranch HOA and Town of Carbondale

The Board ratified this statement of opposition at its July 2010 meeting. The Board's main objective in filing the statement of opposition in this case was to ensure that the Applicant's proposed plans for change of water rights do not injure the Board's instream flow water rights on the Crystal River by expansion of use. Staff, in cooperation with the Attorney General's Office, has negotiated a settlement to ensure that the CWCB's instream flow water rights will not be injured.

The CWCB holds the following ISF water rights that could have been injured by this application:

CWCB Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed	County
5-75W2720	Crystal River	100/60	5/1/1975	Roaring Fork	Pitkin, Garfield

In addition to standard terms regarding measuring devices, accounting and retained jurisdiction, the Applicant has agreed to the following:

- Applicant and CWCB spent some time clarifying the Applicants' intent and claims in this case and how they may impact the instream flow. Clarifications were included in the decree.
- The Plan for Augmentation claim was withdrawn.
- In the decree, sources and diversion rates were specified. Allowed uses of the Bowles & Holland Ditch were specified.

(7) Case No. 5-11CW092 – Application of Upper Eagle Regional Water Authority

The Board ratified this statement of opposition at its September 2011 meeting. The Board's main objective in filing the statement of opposition in this case was to ensure that the Applicant's proposed plans for augmentation do not injure the Board's instream flow water rights on the Eagle River by not replacing out-of-priority depletions in proper time, place, or amount. Staff, in cooperation with the Attorney General's Office, has negotiated a settlement to ensure that the CWCB's instream flow water rights will not be injured.

The CWCB holds the following ISF water rights that could have been injured by this application:

CWCB Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed	County
5-80CW126	Eagle River	110/45	3/17/1980	Eagle	Eagle
5-80CW124	Eagle River	130/50	3/17/1980	Eagle	Eagle
5-80CW134	Eagle River	85/35	3/17/1980	Eagle	Eagle

In addition to standard terms regarding measuring devices, accounting and retained jurisdiction, the Applicant has agreed to the following additional protective terms and conditions:

- "When the exchanges are out of priority, the Applicant shall replace its out-of-priority surface diversions or depletions, as appropriate, and all out-of-priority ground water depletions to the stream from upstream replacement sources as necessary to prevent injury to such senior water rights."
- "Delayed ground water depletions will be accounted for and replaced in accordance with the daily well lagged depletion factors set forth on Table 1, attached hereto, which indicates the amount of a day's well pumping that depletes the stream in subsequent days."
- "The CWCB holds water rights to preserve the natural environment in the Eagle River in Case Nos. 80CW124, 80CW126 and 80CW134 within all or part of the subject exchange reaches, and such instream flow water rights are senior in priority to the exchanges decreed herein."
- "[i]f the Applicant desires to offset any of its other out of priority diversions during such a call with return flows from the use of any water right augmented under this plan, then the Applicant must demonstrate to the satisfaction of the Division Engineer the timing and amount of return flows accruing to the stream at or above the location of the augmented water right's point of diversion or, for any groundwater right, the point of depletion to the stream, taking into account the location of use and the timing and amount of any lagged return flow or any lagged depletions attributable to the water right."

(8) Case No. 5-12CW104 – Application of Colorado Mountain Resorts

The Board ratified this statement of opposition at its September 2012 meeting. The Board's main objective in filing the statement of opposition in this case was to ensure that the Applicant's proposed plans for augmentation and changes of water rights do not injure the Board's instream flow water rights on Ranch Creek and the Fraser River by expansion of use or by not replacing out-of-priority depletions in proper time, place, or amount. Staff, in cooperation with the Attorney General's Office, has negotiated a settlement to ensure that the CWCB's instream flow water rights will not be injured.

CWCB Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed	County
5-90CW306	Ranch Creek	4.0/1.5	11/27/1990	Colorado Headwaters	Grand
5-90CW306A	Ranch Creek	7.0/1.5	11/27/1990	Colorado Headwaters	Grand
5-90CW305	Ranch Creek	8.0/5.0	11/27/1990	Colorado Headwaters	Grand
5-90CW308	Fraser River	17/11	11/27/1990	Colorado Headwaters	Grand
5-90CW308B	Fraser River	30/19	11/27/1990	Colorado Headwaters	Grand

The CWCB holds the following ISF water rights that could have been injured by this application:

In addition to standard terms regarding measuring devices, accounting and retained jurisdiction, the Applicant has agreed to the following:

- Applicant and CWCB spent some time clarifying the Applicants' intent and claims in this case and how they may impact the instream flow. Clarifications were included in the decree.
- In the decree, the augmentation plan was described in detail, including the location of depletions along the stream reach.
- Direct flow and storage claims were detailed in the decree.
- Maps were included in the decree showing all structures and dry up location.

(9) Case No. 5-12CW154 - Application of Byers Peak Ranch, LLLP

The Board ratified this statement of opposition at its January 2013 meeting. The Board's main objective in filing the statement of opposition in this case was to ensure that the Applicant's proposed change of water rights do not injure the Board's instream flow water rights on St. Louis Creek by expansion of use. The application was filed under the "simple change" statute, C.R.S. 37-92-305(3.5). Applicant filed a Rule 56(h) motion for determination of question of law whether this application qualifies as a "simple change" even with an intervening instream flow water right. The court ruled against the applicant and dismissed the case.

The CWCB holds the following ISF water rights that could have been injured by this application:

CWCB Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed	County
5-90CW316	St. Louis Creek	6/3.5	11/27/1990	Colorado	Grand

This case was dismissed per Order on 8/22/2013.

(10) Case No. 7-02CW136 – Application of Sherry Tyner, LLC

The Board ratified this statement of opposition at its March 2003 meeting. The Board's main objective in filing the statement of opposition in this case was to ensure that the Applicant's proposed change of water rights does not injure the Board's instream flow water right on the Florida River by expansion of use.

The CWCB holds the following ISF water rights that could have been injured by this application:

CWCB Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed	County
7-77W1763	Florida River	7/14	1/19/1977	Animas	La Plata
7-77W1764	Florida River	12/20	1/19/1977	Animas	La Plata

An Order to Dismiss without prejudice was entered on August 7, 2013.

STATE OF COLORADO

Colorado Water Conservation Board Department of Natural Resources

1313 Sherman Street, Room 721 Denver, Colorado 80203 Phone: (303) 866-3441 Fax: (303) 866-4474 www.cwcb.state.co.us



John W. Hickenlooper Governor

Mike King DNR Executive Director

Jamas Elrlund

James Eklund CWCB Director

TO: Colorado Water Conservation Board Members

FROM: Anna Mauss, P.E. Loan Marketing

Finance & Administration Section

DATE: September 13, 2013

SUBJECT: Directors Report, September 24-25, 2013 Board Meeting

Finance- Current Prequalified Project List and Loan Prospect Summary

The Finance Section compiles a list of prequalified projects for the Water Project Loan Program. In order to be included on this list, potential borrowers must submit a Loan Application and two years of financial statements to the CWCB staff. In addition, Borrowers requesting to be placed on the Prequalification Project List have a defined project, have performed preliminary engineering, and have a reasonable estimate of the project costs.

Projects on this list fit the initial criteria of the Water Project Loan Program; however, the list does not constitute loan approval. In order to receive a loan, borrowers must additionally submit a completed Loan Feasibility Study for review by CWCB staff. Staff will then prepare a recommendation to the Board for approval at a future CWCB meeting. Projects will remain on this list for one year from the date of the application or until Board approval of a loan.

Prequalified Project List

1						
BORROWER	PROJECT NAME	APPLICATION DATE	BASIN	PROJECT DESCRIPTION	PROJECT COST	LOAN AMOUNT
Previously Approved Applications	d Applications					
Huerfano County Water Conservancy District	Regional Augmentation Project	June 1, 2013 Ark To be presented at September 2013 Board meeting	Arkansas ntember	This project involves the replacement of the outlet pipe and spillway repair at Crowley Reservoir.	\$2,000,000	\$1,800,000
Donald Shahan	Crowley Dam Rehabilitation	May 1, 2013	San Juan / Dolores	This project involves the replacement of the outlet pipe and spillway repair at Crowley Reservoir.	\$260,000	\$234,000
Lone Cabin Ditch and Reservoir Company	Lone Cabin Dam Repair	March 1, 2013	Gunnison	Lone Cabin Reservoir is currently under a storage restriction by the SEO due to	\$364,000	\$327,000
	Project	To be presented at September 2013 Board meeting	otember	slumping issues on the dam. The Company intends to repair the dam to		
				restore its full storage capacity and is looking for WSRA grant funding in addition to the loan.		
Cottonwood Water WISE and Sanitation District Partnership	WISE tPartnership	January 1, 2013	Metro	cture and Supply ip is a regional t between Aurora, South Metro to	\$120,000,000	\$4,600,000
				combine excess water supplies and system capacities to create a more sustainable water supply.		
Castle Pines North Metropolitan District	WISE Partnership	January 1, 2013	Metro	and Supply a regional veen Aurora, Metro to	\$120,000,000	\$8,400,000
				combine excess water supplies and system capacities to create a more sustainable water supply.		

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\$1,500,000		irrigation and changing the water right			Purchase	
		right that was historically used for			Water Right	Conservation District
	\$1,800,000		Rio Grande	January 1, 2013	Atkins Ranch	Rio Grande Water
		sustainable water supply.				
		system capacities to create a more				
		combine excess water supplies and				
		Denver Water, and South Metro to				
		water supply project between Aurora,				
		Efficiency Partnership is a regional			Partnership	Metropolitan District
97,600,000	\$120,000,000	The Water Infrastructure and Supply	Metro	January 1, 2013	WISE	Stonegate Village
		sustainable water supply.				
		system capacities to create a more				
		combine excess water supplies and				
		Denver Water, and South Metro to				
		water supply project between Aurora,				
		Efficiency Partnership is a regional			Partnership	Metropolitan District
0 \$6,300,000	\$120,000,000	The Water Infrastructure and Supply	Metro	January 1, 2013	WISE	Rangeview
		sustainable water supply.				
		system capacities to create a more				
		combine excess water supplies and				
		Denver Water, and South Metro to				
		water supply project between Aurora,				
		Efficiency Partnership is a regional			Partnership	Sanitation District
0 \$11,400,000	\$120,000,000	The Water Infrastructure and Supply	Metro	January 1, 2013	WISE	Pinery Water and
		sustainable water supply.				
		system capacities to create a more				
		combine excess water supplies and				
		Denver Water, and South Metro to				
		water supply project between Aurora,				
		Efficiency Partnership is a regional			Partnership	Sanitation District
0 \$32,400,000	\$120,000,000	The Water Infrastructure and Supply	Metro	January 1, 2013	WISE	Dominion Water and

Prequalification Project List and Loan Prospect Summary September 13, 2013

Directors Report Page 4 of 6

\$126,759,000 \$77,661,000	\$126,759,000					Totals
		well depletions to the Rio Grande River.			Rights Purchase	
		to provide water to replace injurious			Diversion Water	
		privately held transmountain diversion			Transmountain	Conservation District Transmountai
\$2,100,000	\$2,335,000	January 1, 2013 Rio Grande This project is the purchase of a	Rio Grande	January 1, 2013	Treasure Pass	Rio Grande Water Treasure Pass

The Finance Section also compiles a list of potential borrowers/projects for the Water Project Loan Program. This list represents borrowers that have contacted the CWCB about a potential need for funding but have not submitted a loan application and/or a loan feasibility study.

LOAN PROSPECTS

Basin	Last	BORROWER	PROJECT NAME	PROJECT COST	LOAN AMOUNT
South Platte					
	11-Jan	East Larimer County Water District	Rigdon Storage Project		\$3,000,000
	11-Oct	NISP Participants	NISP		\$30,000,000
	13-Sept	Chatfield Reallocation Participants	Chatfield Reallocation Participants		\$70,000,000
	11-Dec	Pinehurst Country Club	Harriman Reservoir	\$5,000,000	\$500,000
	12-Feb	McKay Lateral	Ditch Lining Project		\$50,000
	12-Jun	Foothills Park & Recreation	Reservoir Expansion	\$10,000,000	\$900,000
	12-Oct	Shamrock Irrigation Company	Reservoir Rehabilitation		\$100,000
				TOTAL	\$104,550,000
Arkansas					
	11-Sep	Ditch and Reservoir company	Big Johnson Reservoir		\$8,000,000
	12-Oct	Highline Canal Company	Water Rights Purchase	\$4,500,000	\$4,100,000
	12-Feb	Colorado City Metro District	Beckwith Dam Repair		\$500,000
	13-Apr	City of Walsenburg	Reservoir(s) Rehabilitation		\$6,000,000
				TOTAL	\$18,600,000
San Migue	el/Juan				
	11-Feb	City of Ouray	Red Mountain Ditch Rehabilitation	\$200,000	\$200,000
				TOTAL	\$200,000
Colorado					
		Highland Ditch Co	Ditch Rehabilitation Project	\$200,000	\$200,000
		Ian Carney - Felix Tornare	Polaris Reservoir Rehabilitation	\$500,000	\$500,000
				TOTAL	\$700,000
Gunnison					
	12-Oct	Fire Mountain Canal & Reservoir Co.	New Reservoir		\$500,000
				TOTAL	\$500,000
Rio Grand	e				
	13-Sept	Manasa Land & Irrigation Co.	Ditch Rehabilitation		\$1,000,000
				TOTAL	\$1,000,000

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Yampa			
		TOTAL	\$0

Information shown is based on current staff knowledge and will likely change as Loan Prospects develop

Recent inquiries:

Platteville Irrigating & Milling Company – Ditch rehabilitation project

Enduring Hydro – Hydroelectric Project

Pinery Water and Wastewater District – Pump station rehabilitation

Wadley Farms Filing No. 3 HOA – Water rights purchase

Falls Creek Ranch Association – Dam rehabilitation

Colorado Springs Flycasting Club – Dam rehabilitation

Stonewall Springs – Reservoir construction

Two Rivers Water and Farming - Augmentation project

Cedar Springs Improvement Association – Reservoir rehabilitation

North Poudre Irrigation Company – Reservoir rehabilitation

STATE OF COLORADO

Colorado Water Conservation Board Department of Natural Resources

1313 Sherman Street, Room 721 Denver, Colorado 80203 Phone: (303) 866-3441 Fax: (303) 866-4474 www.cwcb.state.co.us



TO: Colorado Water Conservation Board Members

John W. Hickenlooper Governor

FROM: Kirk Russell, P.E., Chief

Mike King

Finance & Administration Section

DNR Executive Director

DATE: September 13, 2013

James Eklund CWCB Director

SUBJECT: Directors Report-September 24-25, 2013 Board Meeting

Finance – Design & Construction Status Report

The CWCB Loan Program has Substantially Completed thirteen (13) projects in Calendar Year 2013 as shown in Table 1. There are currently 51 projects authorized to receive loan funding totaling \$195 million. There are 36 projects currently under contract and in the Design and Construction phase totaling \$109 million.

The attached spreadsheet summarizes the status of the projects. A detailed description about each project is provided in the digital version of the Director's Report.

TABLE 1

		IVAFFT			
	Borrower	Project	County	Loan	Complete
1	Big Elk Meadows Assoc.	Raw Water System Improvements	Boldr/Larimr	\$272,700	2/1/13
2	Center of CO Water Cons Dist	Smelter Pipeline Res Enlargement	Park	\$404,000	2/1/13(a)
3	Henrylyn Irrigation District	Horse Creek & Prospect Res Rehab	Weld	\$2,184,327	2/1/13(b)
4	Two Rivers Water Co	Orlando Reservoir Rehabilitation	Huerf/Pueb	\$1,184,882	3/1/13
5	Parkville Water District	Canterbury Tunnel Repair	Lake	\$1,838,200	2/1/13
6	Farmers Res & Irrigation Co	Milton Res & Barr Lake Imprv Proj.	Adms/Weld	\$3,535,000	4/1/13
7	Ogilvy Augmentation Co	Well Augmentation	Weld	\$1,010,808	4/1/13
8	Montezuma Valley Irr Co	May Lateral Pipeline	Montezuma	\$5,292,400	4/1/13
9	Montezuma Valley Irr Co	Lone Pine & May Lateral Improv.	Montezuma	\$339,600	4/1/13
10	Fort Morgan Res & Irr Co	Pipeline – Augmentation Retiming	Morgan	\$1,494,800	5/1/13
11	Fort Morgan Res & Irr Co	River Diversion Rehab Project	Morgan	\$1,308,960	5/1/13
12	New Salida Ditch Co	Ditch Rehabilitation	Chaffee	\$365,620	8/1/13
13	La Veta, Town of	La Veta Dam Rehabilitation	Huerfano	\$372,690	9/1/13(c)
		Total		\$19,600,000	

Calendar Year 2013 has added or preserved 3,317AF of reservoir storage [(a) 300AF, (b) 3,000AF, (c) 17AF]

BIG ELK MEADOWS ASSOCIATIONRAW WATER SYSTEM IMPROVEMENTS PROJECT



Project Description

The Big Elk Meadows Association requested a loan for improvements to its raw water system which serves Big Elk Meadows, a 205-lot subdivision with 160 residences distributed across 460 acres. During an SEO inspection of the Association's raw water system and review of its water accounting practices it was determined the outlet conduit from Meadow Lake Dam was collapsing and becoming inoperable and it was determined that the Association had no accurate means to gauge flows and accurately control reservoir release rates, violating the terms of its 1995 decree regarding return flows. The SEO required that the Association improve their raw water system and accounting protocol in order to function safely and in compliance with its decrees. Project improvements included: Meadow Lake Dam outlet replacement, raw water monitoring equipment installation, and installation of an ISH Reservoir augmentation outfall. The project provides the Association the means to monitor and control reservoir releases while satisfying downstream obligations per their augmentation plan.

Project Data

Sponsor: Big Elk Meadows Association

County: Boulder/Larimer

Water Source: West Fork of the Little Thompson River

Substantial Completion: February 1, 2013

Terms of Loan (Contract # C150327): \$272,700 for 30 years @ 4.50%

Design Engineer: Gauthiere Engineering, Greeley, CO

Contractor: T&G Enterprises (Ackerman Excavating), Lyons, CO

Project Elements: 500 CY of excavation/material placement, place 300 CY rip-rap, place 25 CY of concrete (2)

structures), install multiple butterfly valves (6" - 12")

CENTER OF COLORADO WATER CONSERVANCY DISTRICT

SMELTER PIPELINE RESERVOIR ENLARGEMENT PROJECT



Before and after photos from Smelter Pipeline Reservoir Dam

Project Description

The Center of Colorado Water Conservancy District (CCWCD), a Title 37 Special District, co-owns and manages a blanket augmentation plan across Park County with the Upper South Platte Water Conservancy District. The CCWCD purchased Smelter Pipeline Reservoir in 2005 to increase its augmentation capacity in the upstream reach of the basin. When purchased, the reservoir had significant seepage issues and its diversion headgate was deteriorated and marginally operational. The enlargement of the reservoir from 21 AF to 28 AF increased CCWCD's storage capacity and enabled it to more efficiently implement its augmentation obligation across Park County. Included in the project was the lining of the reservoir, replacement of the diversion headgate, and modification of the dam outlet works to accommodate the increased capacity.

Project Data

Sponsor: Center of Colorado Water Conservancy District

County: Park

Water Source: Michigan Creek

Substantial Completion: February 1, 2013

Terms of Loan (Contract #C150335): \$404,000 (\$404,000 drawn) for 10 years @ 2.50%

Design Engineer: TZA Water Engineers, Lakewood, CO **Contractor:** Hudick Excavating, Inc., Castle Rock, CO

Project Elements: 35,000 CY of native material excavation and placement, 150,000 SF of 30 mil PVC liner, 300,000

SF of 8oz. geotextile layer, 750 LF 8" PVC, 850 LF 6" PVC, and installation of a 4" flow meter and valve box

HENRYLYN IRRIGATION DISTRICT HORSE CREEK AND PROSPECT RESERVOIR REHABILITATION PROJECT



Prospect Reservoir Dam pre-project debris (inset) and the rehabilitated Horse Creek Reservoir outlet flume

Project Description

The Henrylyn Irrigation District, formed in 1907, utilizes Horse Creek and Prospect Reservoirs in the annual delivery of more than 19,000 acre-feet of irrigation water to over 32,000 acres of agricultural land in Weld County. The reservoirs, which are separated by 25 miles, are in-line reservoirs fed by the Denver-Hudson Canal. For Horse Creek Reservoir the project consisted of lining the outlet works, installing additional toe drain, and resurfacing/re-grading the dam crest. Rehabilitation efforts for Prospect Reservoir, which is currently under a 1.5-foot storage restriction due to stability concerns, consisted of a lining for the outlet works, toe drain rehabilitation and improvements, resurfacing of the dam crest, regrading the dam embankment, and rehabilitating the face of the dam. The project will restore the storage capacity of Prospect Reservoir while increasing the efficiencies of both outlet works and providing addition stability and maintenance access.

Project Data

Borrower: Henrylyn Irrigation District

County: Weld

Water Source: Denver-Hudson Canal Substantial Completion: February 1, 2013

Terms of Loan (Contract #C150252): approved for \$2,184,327 (\$2,150,597.05 drawn) for 30 years @ 2.25%

Design Engineer: Smith Geotechnical, Fort Collins, CO

Contractor: Zak Dirt, Inc., Longmont, CO

Project Elements: Rip-rap lined outlet channel and concrete headwall/flume, toe drain installation and repair, dam embankment fill placement, toe drain pump installation, piezometer installation, concrete dam rehabilitation

TWO RIVERS WATER COMPANY ORLANDO RESERVOIR REHABILITATION PROJECT



Finished project photos of the Orlando Reservoir and the Cucharas No. 5 spillway improvements.

Project Description

The Two Rivers Water Company is requested a CWCB loan to restore aging water infrastructure in order to support the company's agricultural production. Loan funds were used to modify the spillway at the Cucharas Dam. This temporarily brought the spillway up to SEO standards and allowed the company to store a restricted level of water and avoided a pending breach order. Loan funds were also used to repair the outlet works at the Orlando Reservoir No. 2 where a new 30-inch outlet pipe with a new headwall and trash rack system was installed. Funds were also used to construct a new headgate on the Orlando Canal where there had previously been a temporary sand dam. This structure was replaced with a new sheet pile wall.

Project Data

Sponsor: Two Rivers Water Company

County: Huerfano & Pueblo Water Source: Huerfano River

Substantial Completion: March 1, 2013

Terms of Loan (Contract # C150328): \$1,184,882 for 20 years @ 2.50%

Design Engineer: Applegate Engineering, Denver, CO **Contractor:** SLV Earth Movers, Monte Vista, CO

Project Elements: Cucharas No. 5 Reservoir spillway improvements (concrete removal of ogee crest spillway to lower spillway level), installation of a new 30-inch outlet works pipe at the Orlando Reservoir, and Orlando Ditch headgate rehabilitation.

Parkville Water District CANTERBURY TUNNEL REPAIR PROJECT



Project Description

The Project included the construction of a vertical bore, installation of a well pump station and 1.5 miles of 10 inch pipeline. The Project will allow the District to access water from the Canterbury Tunnel which provided a high quality and reliable water supply until the late 1990's. The tunnel was constructed during the late 1920's to provide mine drainage. In 1961, the District accessed the water at the portal and pumped it into the existing District's distribution system. The tunnel produced high quality groundwater at a constant rate and a year-round temperature of approximately 50 degrees. In 2003, a portion of tunnel collapsed. The project involved the installation of a vertical bore/well into the tunnel. A pump was installed to withdraw water from the tunnel and a pipeline was installed to convey the tunnel water to the Evans Gulch Reservoir. The pipeline connects into an existing District pipeline near Evans Gulch Reservoir.

Project Data

Sponsor: Parkville Water District County: Lake Water Source: Canterbury Tunnel

Terms of Loan: \$1,838,200.00 for 3 years @ 4.00% **Substantial Completion:** February 1, 2013

Design Engineer: W. W. Wheeler, Englewood, CO

Contractor: Stan Miller, Inc., Breckenridge, CO

Project Elements: 250 foot vertical bore/well, well pump house and electrical equipment. 8,300 feet of 10-

inch HDPE pipe.

Farmers Reservoir and Irrigation Company MILTON SPILLWAY/OUTLET REHABILITATION & BARR LAKE IMPROVEMENTS



Project Description

Farmers Reservoir and Irrigation Company operates a ditch and reservoir system extending 3,500 square miles along the Front Range corridor, from Golden to Kersey including Barr Lake and Milton Reservoir. This project included replacing the upstream outlet gate structure and a portion of the piped outlet works at Milton Reservoir and enlarging the existing spillway. In addition, Barr Lake spillway was enlarged along with the raising the perimeter dike. The construction components were completed in late 2011.

Project Data

Sponsor: Farmers Reservoir and **County:** Adams & Weld **Water Source:** Beebe Seep Canal, Irrigation Company Platte Valley Canal,

Platte Valley Canal, O'Brian Canal

Terms of Loan: \$3,535,000 for 30 years @ 3.70% **Substantial Completion:** April 1, 2013

Design Engineer: Ecological Resource Consultants, Inc

Contractor: TEZAK, Canon City, American West Construction, Denver

Project Elements: Milton Dam outlet works consist of: (2) new slide gates, new hydraulic operators, a new gate control house, SCADA system, and repair of a section of 44-inch steel-lined conduit. Milton Spillway work consists of: enlarging the spillway from 350 feet to 586 feet and lowering the spillway by 1.5 feet. Barr Spillway work consists of: increasing the current spillway from an informal low depression to a 185 feet wide and 700 feet long concrete spillway with riprap at the far downstream end.

Ogilvy Augmentation Company AUGMENTATION PROJECT



Project Description

The Ogilvy Augmentation Company was established in 2005 to augment wells that operate under the Ogilvy Irrigating and Land Company's service area. Approximately 1,400 acres of land are irrigated by the Company north of Kersey. There are 17 wells in the Augmentation Company that operate under its temporary substitute water supply plan (SWSP). The Project's purpose is to create a permanent water supply for the Augmentation Company to obtain a permanent augmentation plan. The Project included the purchase of water rights; construction of a recharge pond, and installation of monitoring devices. The Augmentation Company filed for its permanent augmentation plan and will construct a storage reservoir under a separate CWCB loan contract.

Project Data

Sponsor: Ogilvy Augmentation County: Weld Water Source: Cache La Poudre

Company

Terms of Loan: \$523,584 for 30 years @ 2.50% **Substantial Completion:** April 1, 2013

Design Engineer: NoCo Engineering Inc., Loveland

Contractor: Four C Sons, Kersey

Project Elements: Purchased 6 shares of Greeley Irrigation Company stock; construction of a recharge

pond; and installation of measurement structures and flow meters.

Montezuma Valley Irrigation Company MAY LATERAL PIPELINE PROJECT



The Irrigation Company manages the delivery of irrigation water to the approximately 46,000 acre service area. The Company installed approximately five (5) miles of 36-inch pipe in the existing May Lateral Ditch alignment. The Company's staff performed the installation and welded the HDPE pipe together. The installation of pipe will improve delivery and significantly reduce leakage. The May Lateral water is diverted from the Dolores River and is routed through the McPhee Reservoir prior to delivery to shareholders. The new pipeline will carry approximately 18 cfs to the 105 shareholders that depend on the May Lateral for irrigation water.

Project Data

Sponsor: Montezuma Valley Irrigation County: Montezuma Water Source: Dolores River

Company

Terms of Loan: \$2,979,825 for 30 years @ 2.25% **Substantial Completion:** April 1, 2013

Design Engineer: AgriTech Consulting

Contractor: Montezuma Valley Irrigation Company

Project Elements: Five (5) miles of 36-inch HDPE pipe and associated valves and meters.

Montezuma Valley Irrigation Company LONE PINE AND MAY PIPELINE IMPROVEMENTS PROJECT



Project Description

The Montezuma Valley Irrigation Company is a non-profit corporation established in the State of Colorado in 1920. The Company manages the delivery of irrigation water to a service area of over 30,000 acres. The Company obtained a loan to issues that were long-term maintenance concerns through this project including: trash and debris removal in delivery pipelines, pipeline pressure management, and water management issues. The Company began construction in the spring of 2012 and completed construction in the spring of 2013.

Project Data

Sponsor: Montezuma Valley Irrigation County: Montezuma Water Source: Dolores River

Company

Terms of Loan: \$338,603 for 30 years @ 2.75% **Substantial Completion:** April 1, 2013

Design Engineer: Applegate Group, Inc., Glenwood Springs, CO

Contractor: Montezuma Valley Irrigation Company

Project Elements: The construction associated with this project included the installation of a trash screen on the Lonepine Pipeline, a pressure reducing valve trim package on the Lonepine Pipeline, and the installation of solar panels on the May Pipeline. Final engineering on the May Pipeline trash screen was also included in the project.

Fort Morgan Reservoir and Irrigation Company GROVES PIPELINE PROJECT



Project Description

The Project involved installing one 24" pipe from the South Platte River extending three miles to recharge ponds on Groves Farms' land; installing two pumps to pump water from the river through the pipeline; constructing seven recharge/augmentation ponds on Groves Farms' land. This system allows the Company to recapture and re-time the Company's excess augmentation credits that accrue to the South Platte River. Through the new pipeline, new junior diversions may be made and delivered to the new ponds. These junior diversions will produce augmentation credits that will accrue to the South Platte River and may be used immediately for augmentation or may be re-timed. The Company received a WSRA Grant of \$670,000 to offset the project cost.

Sponsor: Fort Morgan Reservoir & Project Data
County: Morgan

Irrigation Company

Terms of Loan: \$1,494,800 for 30 years @ 2.9% **Substantial Completion:** May 1, 2013

Water Source: South Platte River

Design Engineer: Civil Design Group, Greenwood Village CO

Contractor: Interstate Irrigation Company, Yuma CO

Project Elements: 3-miles of 20" PVC pipe, 275 ft of 30" PVC pipe, wet well and two 4,000 GPM pumps, electric power, and seven augmentation ponds.

Fort Morgan Reservoir and Irrigation Company RIVER DIVERSION REHABILITATION PROJECT



Project Description

The Project replaces portions of the river diversion structure with a 6ft tall and 100ft Obermeyer pneumatic spillway gate system. In addition, a 30ft long section of 5ft tall bladder replaced the current intake gates. The remaining diversion was left intact. The South Platte River diversion is critical to the Company's operations and delivers surface water to approximately 15,000 acres of irrigated land between Weldona and Brush, and provides water to a recharge and augmentation plan that provides augmentation water for approximately 90 irrigation wells.

Sponsor: Fort Morgan Reservoir & Project Data
County: Morga

Irrigation Company

& County: Morgan Water Source: South Platte River

Terms of Loan: \$1,308,960 for 30 years @ 1.85% **Substantial Completion:** May 1, 2013

Design Engineer: Nation Engineering Services LLC, Fort Collins CO

Contractor: Ransom Boone Excavating, Fort Morgan CO

Project Elements: 6ft tall and 100ft Obermeyer pneumatic spillway gate system and a 5ft tall 30ft long bladder intake gate.

New Salida Ditch Company DITCH REHABILITATION PROJECT



Project Description

The Ditch Company delivers water to agricultural users from the Arkansas River through a diversion in Browns Canyon. The Ditch runs parallel to the River for 1.25 miles and has historically been difficult for the Company to maintain and has suffered frequent breaks. In 2005, the Company undertook a maintenance project designed to mitigate erosion along the ditch. During the maintenance effort, sand and gravel were accidently deposited into the River and the Company was cited with violations from the Colorado Department of Public Health and Environment (CDPHE). As a resolution to this dispute, the Company agreed to enclose a portion of the Ditch to prevent the potential for discharges of material due to ditch breaks in this area in the future. This Project installed 3,200 linear feet of 42-inch HDPE pipe in the existing ditch alignment.

Project Data

Sponsor: New Salida Ditch Company County: Chaffee Water Source: Arkansas River

Terms of Loan: \$365,620 for 30 years @ 2.5% **Substantial Completion:** August 1, 2013

Design Engineer: Colorado River Engineering, Inc, Rifle CO

Contractor: Y&K Excavation, Inc, Salida, CO

Project Elements: 3,200 LF of 42-inch HDPE pipe and access structures.

TOWN OF LA VETA NORTH LAKE DAM REHABILITATION PROJECT



Finished project photos of the North Lake Dam outlet works and toe drain system.

Project Description

The Town of La Veta is responsible for supplying its residents with potable water. The town stores raw water in two reservoirs (North Lake and South Lake) to supplement the diversions from the Cucharas River in times of low flow and in periods of drought. North Lake reservoir exhibited growing signs of distress over the years and the SEO issued a 2.5-foot restriction on the dam in March 2011. The restriction cost the Town 17 AF of storage capacity. The La Veta Dam project included the replacement of outlet works and the installation of a toe drain filter system; thereby restoring the full capacity of the reservoir.

Project Data

Sponsor: Town of La Veta

County: Huerfano

Water Source: Cucharas River

Substantial Completion: September 1, 2013

Terms of Loan (Contract # C150329): \$372,690 for 30 years @ 3.0% **Design Engineer:** Chris Manera, P.E., Colorado River Engineering Inc.

Contractor: Glacier Construction, Greenwood Village, CO

Project Elements: North Lake Dam Rehabilitation improvements included the removal and replacement of the outlet

tower and pipe. It also included the installation of a new toe drain filter system.

Colorado Water Conservation Board Water Project Loan Program Project Design Construction Status Report

Cur	urrent Projects in Design or under Construction			Loan		Annual Storage Delivery Effect Design			Construc	tion		Status Description/Update	
	Borrower/Project	Contract	County	Amount	Size	Yield (AF)	(AF)	Status	Start/End	Status	PM		
1	Bergen Ditch & Reservoir Company > Bergen Reservoir No. 2 Rehabilitation C150344	344	Jefferson	\$ 2,020,000	726AF	800	726	30%	2014 - 2015	0%	AM	Bergen soliciting bids for engineering/geotech. Delay is to fill other reservoirs in order to drain Bergen #2.	
2	Central CO WCD - WAS > Augmentation Water Supply Project C150337	337	Weld/ Adams/ Morgan	\$ 3,030,000	20,400AF	20,400		50%	Apr 13 - Apr 15	0%	AM	Purchased a portion of the water rights on 4/25/13	
3	Colorado Parks & Wildlife > Beaver Park Reservoir Rehabilitation C150343	343	Rio Grande	\$ 10,000,000	4,434AF	4,434	2,201	Ph1 100% P2 60%	Summer '13 & Summer '14	30% 0%	KR	Phase 1 Alsand Construction \$2M. Mob. 7/15, Raise spillway, Grout rt. Abuttment. Phase 2 design 60%. Const. expected 2014, Lt abuttment, reove timber cribbing, new outlet & valves.	
4	Crystal Lakes Water and Sewer Association > Lower Lone Pine Lake Enlargement Project C150325	325	Larimer	\$ 2,363,400	100 AF	10	100	80%	Apr 12 - Aug 14	0%	AM	The proejct was bid in August. Construction will begin in late September 2013.	
5	Dillon, Town of > Old Dillon Reservoir Enlargement C150295	295	Summit	\$ 1,515,000.00	286 AF	321	140	100%	Sep 10 - Jul 13	99%	KR	Construction is complete and accepted. SC expected in the Summer 201	
6	Eckhardt Farms Inc > Water Rights Purchase C150338	338	Weld	\$ 1,336,230.00	694AF	694		N/A	Jan 13 - Jan 17	0%	AM/ PM	The 1st of the 2 water rights purchases is expected to occur in mid 2013.	
7	Farmers' High Line Canal and Reservoir Company > System Rehabilitation Project C150314	314	Adams/ Jefferson	\$ 1,410,768.00	31 Miles	24,000		100%	Feb 11 - Feb 14	80%	JH	The Co. received a loan increase of nearly \$900K in November 2012. Siphons complete. Clear Creek diversion 50% complete will resume in fa 2013.	
8	Fisher Ditch Company > Ditch Infrastructure Project C150319	319	Denver	\$ 454,500	7,623 AF	7,623		100%	Nov 12 - Dec 13	20%	JH	The Broadway Pipeline task was completed December 2012. The Headgate Rehabilitation task is scheduled for construction this winter pending permitting issues. Sandout gate installation scheduled for this winter. Timing of the Federal Piping are T.B.D.	
9	Georgetown, Town of > Outlet Works Modification Project C150321	321	Clear Creek	\$ 2,976,975	208 AF	208		50%	Jan 14 - Jul 14	0%	AM	Final design is underway. Construction is expected to begin in the spring of 2014.	
10	Greeley Irrigation Company > Greeley Canal No. 3 Rehabilitation C150239	239	Wled	\$ 2,233,867.00	18,000 AF	18,000		90%	Feb 08 - Jul 13	90%	KR	Nearly complete. The Company is working on their SCADA system and the realignment and reshaping of various sections of existing channel.	
11	Gypsum, Town of > LEDE Ditch and Reservoir Rrehabilitation C150296	296	Eagle	\$ 2,689,731.00	685 AF	1,200	254	100%	Jul 13 - Jul 14	15%	KR	The Town received a WSRA grant for an enlargement of the Reservoir. The supply pipeline completed in Sept 2010. Permitting effort continues with construction expected in summer 2013. Wildlife mitigation plan to be approved.	
12	Joseph W. Bowles Reservoir Company > Bowles No. 1 Dam Rehabilitation C150290	290	Jefferson	\$ 1,703,870.00	2,062 AF	900		100%	Aug 10 - Jan 14	90%	JH	Dam construction project was completed in 2011. Ditch construction underway and to be complete fall 2013.	
13	Henrylyn Irrigation District > Prospect Res Dam Facing Project C150358	358	Weld	\$ 2,967,279	2,400LF	39,950	7,480	50%	Oct 13 - Oct 14	0%	JH		
14	Lake Canal Reservoir Company > North Gray Reservoir Rehab Project C150299	299	Larimer/ Weld	\$ 116,625.00	75 AF	333	75	20%	Sep 15 - Jan 14	0%	AM/ JH	The Company's engineer is working on the design.	

Design and Construction Status Report

Cur	Current Projects in Design or under Construction			Loan		Annual Delivery	Storage Design		Construc	ction		Status Description/Update		
	Borrower/Project	Contract	County	Amount	Size	Yield (AF)	(AF)	Status	Start/End	Status	PM			
15	Left Hand Ditch Company > Allen Lake and Lake Isabelle Repair Project C150336	336	Boulder	\$ 1,157,157		22,700AF		75%	Nov 12 - Aug 13	70%	AM	Allen Lake construction was completed in August 2013. Lake Isabelle repairs are underwary.		
16	Lower Latham Reservoir Company > Well Augmentation Project C150304	304	Weld	\$ 3,811,573.00	5,705 AF	5,705		100%	Nov 09 - Jul 11	85%	KR	The Company has completed its water rights purchase and the construction of the augmentation ponds.LLRC obtained it's irrigation well augmentation decree and it will re-focus it's attention on the recharge facility work.		
17	Mancos Water Conservancy District > Inlet and Outlet Canal Rehabilitation C150120	120	Montezuma	\$ 5,486,531.00	15,840 LF	9,000		75%	Jan 04 - Jan 14	95%	KR	Rehabilitation of ditch system involving retaining walls and access road along the ditch was complted in 2009. Additional 1000ft of ditch lining under construction. Construction to be completed in October 2013.		
18	Monte Vista, City of > Augmentation Water Rights Acquisition C150309	309	Rio Grande	\$ 1,693,770.00	321 AF	1,212		n/a	Oct 10 - Jul 13	50%	KR	The City purchased Anderson Ditch rights and will file a water court application to enable the use of those rights to replace depletions. Contracted with the San Luis Valley Irr. Dist. for storage space in the Rio Grande Res. City continues negotiations to purchase additional water.		
19	North Delta Irrigation Company > NDIC Tunnel Repair Project C150331	331	Delta	\$ 808,000	1,500LF	17,735		100%	Jan 12 - Dec 12	99%	KR	Construction of tunnel pipe was completed in the summer of 2012. Additional work is required in order to achieve adequate flows.		
20	Ordway Feedyard, LLC > Raw Water Line Extension Project C150349	349	Crowley	\$ 2,525,000	4.2Mi	1,500		100%	May 13 - Nov 13	90%	AM	Grant funds have been spent in full. Construction of pipeline is progressing with completion expected in the fall of 2013.		
21	Overland Ditch and Reservoir Company > Overland Reservoir Rehabilitation C150206	206	Delta	\$ 1,130,000.00	6,200 AF	17,000	971	50%	Permitting	0%	KR	Project on-hold until fens can be addressed in enlarged reservoir area.		
22	Owl Creek Reservoir Company > Owl Creek Reservoir Rehabilitation C150089	89	Weld	\$ 1,125,000.00	1200 AF	1,200	1,200	99%	On Hold	0%	TF	The Company received bids and does not have enough funds to complete the project. The Company has expended approximately \$450,000 to-date for permitting, soils, and design and will need an additional \$600,000 to complete the project. A project partner is being sought.		
23	Penrose Water District > Water Rights Purchase and Pipeline Installation C150237	237	Fremont	\$ 8,844,570.00	30,624 LF	339		80%	Oct 10 - July 14	50%	KR	Water rights purchased in 2005. Water court application filed in 2006. Brush Hollow Res. Closing in 2011. Ark river well field purchased in 2012. Final design underway. Construction fall 2013 thru 2014		
24	Pisgah Reservoir and Ditch Company > Mount Pisgah Dam/Wrights Reservoir Rehab C150341	341	Teller	\$ 161,345	2,192AF	86,000		75%	Spring 14 - Jan 15	0%	JH	After SEO design revew, scope of Project increased.		
25	Platte Valley Irrigation Company > Equalizer Reservoir Project C150235	235	Weld	\$ 2,388,650.00	431 AF	52,401	431	100%	Nov 10 - Jul 13	5%	KR			
26	Riverside Ditch and Allen Extension Company > Ditch System Rehabilitation C150301	301	Chaffee	\$ 186,345.00	3,250 LF	3,260		85%	Jul 10 - Dec 13	80%	KR	Ditch lining phase of the project was completed in December 2010. Additional phases will be constructed in the fall 2013. Utilizing NRCS La Junta Fld office for design.		
27	Riverside Reservoir and Land Company > Riverside Reservoir Spillway Enlargement C150291	291	Weld	\$ 2,838,100.00	64,000 AF	105,000		80%	Sep 10 - Jan 15	0%	JH	The engineer is re-evaluating design options with support from the SEO.		
28	Roxborough Water & Sanitation Dist. > Raw Water Supply Project C1503346	346	Douglas	\$ 18,538,550	1,141AF	1,141		99%	Oct 13 - Jun 14	0%	AM	Project Bill (SB-181) approved.		

Design and Construction Status Report

Current Projects in Design or under Construction			Loan					Annual Storage Delivery Effect Design			ction		Status Description/Update
Borrower/Project C		Contract	Contract County		Amount Size		Yield (AF)	(AF)	(AF) Status		rt/End Status		
29	Sanchez Ditch and Reservoir Company > Sanchez Reservoir Outlet Rehabilitation Project C150342	342	Costilla	\$	1,128,776	104,000AF	15,000		20%	2014 - 2015	0%	AM	Project is in final design phase.
30	Santa Maria Reservoir Company > Siphon and Canal System Rehabilitation Project C150350	350	Hinsdale/ Mineral	\$	1,405,163	6,300AF	6,300		100%	2014 - 2015	0%	AM	Construction was delayed until the 2014 construction season due to forest fires in the area.
31	Terrace Irrigation Co > Spillway Replacment Project C150332	332	Conejos	\$	2,724,721	2,000AF	15,340	2,000	100%	Jul 12 - Jul 13	99%	KR	Construction by ASI Contractors is complete. ASI presented claim for \$700K additional work. Denied by TIC and URS. Waiting for SEO final approval
32	Thunderbird W&S Dist > Lambert Ranch Water Rights Purchase C150320	320	Douglas	\$	318,150.00	896 AF	55		100%	N/A	0%	KR	Closing has been delayed until 2013 due to easement access to purchased wells.
33	Tri-County Water Conservancy District > Ridgway Reservoir Micro Hydro Project C150324	324	Ouray/ Mont/ Delta	\$	13,130,000	8 MW	35,000		100%	Jul 12 - Dec 13	80%	KR	Construction is underway with energy production expected by October 2013. Project Bill funding now available to Dist.
34	Twenty Two Road Lateral Company > Twenty Two Road Lateral Replacement Project C150344	345	Mesa	\$	517,848	13,000LF	1,334		100%	Jan 13 - May 13	99%	KR	Construction complete. SC scheduled for mid 2014.
35	Union Ditch Company > Well Augmentation Project C150127	127	Weld	\$	312,595.00	206 AF	206		75%	Sep 06 - Jan 14	80%	KR	One recharge pond at the Miller Feedlot Site was complted with an accompany diversion structure on the Union Ditch.
36	Upper Arkansas Water Conservancy District > Reservoir Rehabilitation C150192	192	Chaffe/ Custer	\$:	3,520,000.00	500 AF	500	200	100%	Jun 05 - Jan 14	90%	KR	The project requires Forest Service special use permit and an environmental assessment prior to construction. The initial phase of construction was awarded to ASI, Buena Vista, CO, and completed in May 2007. The enlargement effort is delayed due to NEPA permitting

Projects Under Contract SubTotal = \$ 108,570,089

494,101 15,778

Projects Not Under Contract

а	Southeastern CO Water Conserv. District > Arkansas Valley Conduit		Crowley	\$ 60,600,000	138 Miles	6,555		In Contracting	KR	Pending Federal Appropriation
b	Lake Durango Water Authority > Source Water Supply Project C150317	317	LaPlatta	\$ 2,525,000	309 AF	309		In Contracting	KR	A condition of contract approval is to have an agreement in place for use of the Outlet Tower in Lake Nighthorse
С	McDonald Ditch Company > Ditch Diversion and Headgate Replacement C150334	334	Rio Grande	\$ 70,700	5,018AF	5,018		In Contracting	JH	Increased loan amount and collateral change must return to for approval in Sept 2013.
d	Town of Ridgway > Lake Otonowanda Rehabilitation Project C150340	340	Ouray	\$ 606,000	363AF	280	254	In Contracting	KR/ JH	

Design and Construction Status Report

Current Projects in Design or under Construction				Loan		Annual Storage Design Construction						Status Description/Update
	Borrower/Project	Contract	County	Amount	Size	Yield (AF)	(AF)	Status	Start/End	Status	PM	
е	Greeley, City of > High Park Fire Restoration Project C150347	347	Larmier	\$ 2,020,000	5.500AC	9,000	726		In Contracting	I	KR/ JH	
f	San Luis Valley Water Conservancy District > Anaconda Ditch Water Right Acquisition C150348	348	Alamosa	\$ 839,000	260AF	386			In Contracting	I	AM	
g	Missouri Heights - Mountain Meadows Irrigation Company > Irrigation Ditch lining Project C150351	351	Eagle/ Garfield	\$ 454,500	3,500LF	4,480			In Contracting	ı	KR	
h	Boxelder Basin Regional Stormwater Authority > Larimer and Weld Canal Crossing Structure Project C150352	352	Larmier/ Weld	\$ 1,010,000	Weir	-			In Contracting	ı	AM	
i	Boxelder Basin Regional Stormwater Authority > East Side Detention Facility Project C150353	353	Larmier/ Weld	\$ 7,171,000	1,800AF	-			In Contracting	I	AM	
j	Grand Mesa Water Conservancy District > Peak Res. & Blanche Park Res. Rehabilitation C150354	354	Delta	\$ 227,250	155AF	400	155		In Contracting	ı	AM	
k	Two Rivers Water & Farming Company > Arkansas Storage Facility C150355	355	Huerfano/ Cucharas	\$ 9,999,000	4,110AF	-	4,110		In Contracting	ı	AM	To be deauthorized in November of 2013.
I	Bellyache Ridge Metro District > Well Replacement Project C150356	356	Eagle	\$ 169,175	1,900ft	11	-		In Contracting	ı	AM	
m	Boulder & Lefthand Irrigation Company > Tracy Lateral Pipeline C150357	357	Boulder	\$ 159,075	4,110AF	2,869	-		In Contracting	ı	JH	
n	Fowler, Town of > Augmentation Pipeline Project C150359	359	Otero	\$ 277,245	2,400LF	177	-		In Contracting	ı	AM	
0	East Mesa Water Company > Ditch Piping Project C150360	360	Pitkin/ Garfield	\$ 555,500	1,450LF	9,669	-		In Contracting	ı	KR	

Not Under Contract SubTotal = \$ 86,683,445 39,154 5,245

Grand Total = \$ 195,253,534 533,255 21,023

Water Project Loan Program – Project Data Sheet

Borrower: Bergen Ditch & Reservoir Company County: Jefferson

Project Name: Bergen Reservoir No. 2 **Project Type:** Dam Rehabilitation

Rehabilitation

Drainage Basin: South Platte, District 9 **Water** Turkey Creek

Source:

Total Project \$2,225,000 **Funding** Construction Fund

Cost: Source:

Type of Blended - (64% high-income muni, Avg. Annual 800 AF

Borrower: 36% middle-income muni) **Diversion:**

CWCB Loan: \$2,020,000 (w/ 1% service fee) **Interest Rate:** 3.15% **Term:** 30 years

The Bergen Ditch and Reservoir Company utilizes Bergen Ditch to divert water off Turkey Creek and deliver it to shareholders through a series of open and piped ditches, reservoirs, pumps and pipelines. The Company owns three reservoirs, Bergen No.1, Bergen No. 2 and Polly Deane. Bergen No. 2 was originally constructed in 1874. The dam has an ongoing history of slumping and seepage issues. In 2007 the dam's outlet works were damaged and temporary repairs were made in 2009. Ongoing SEO inspection reports have monitored seepage, stability, erosion and outlet concerns over recent years. Following the latest inspection report the SEO verbally recommended the Company consider rehabilitation of the dam or face the possibility of a storage level restriction. This project consists of full replacement of the outlet works and rehabilitation of the dam.

Location Map

| Compared | Compar

Water Project Loan Program – Project Data Sheet

Borrower: Well Augmentation System of the County: Weld, Adams, Morgan

Central Colorado Water Conservancy District

Conservancy District

Project Name: Water Rights Purchase & Gravel Pit Project Type: Water Rights Purchase &

Storage Project Augmentation Facility

Drainage Basin: South Platte Water Source: South Platte Basin

Total Project Cost: \$3,333,400 **Funding Source:** Construction Fund

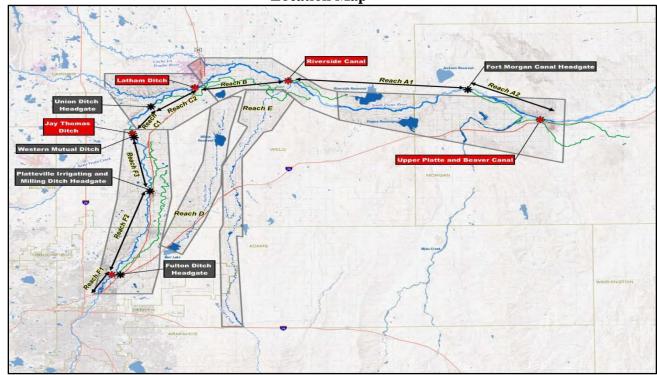
Type of Borrower: Agricultural **Annual Depletions** 20,400 AF

Covered:

CWCB Loan: \$3,030,000 (w/ 1% service fee) **Interest Rate:** 1.75% **Term:** 30 years

The Well Augmentation Subdistrict (WAS) of the Central Colorado Water Conservancy District is located in Adams, Weld, and Morgan counties. WAS is a special district created by the Weld County District Court on January 8, 2004, pursuant to the applicable provisions of the "Water Conservancy Act", Section 37-45-101, C.R.S. It has the power to acquire and sell water rights, construct and operate facilities, exercise eminent domain, levy taxes, and contract with other agencies. WAS has operated an augmentation plan since 2004, covering approximately 78 square miles and 214 predominantly agricultural member wells. WAS has an average annual depletion of 20,400. WAS has requested a loan for purchasing more water and storage rights to enable WAS to issue a pumping quota to member wells for the first time since 2006. The WAS General Fund will cover the remaining project expenses.

Location Map



CWCB Water Project Loan Program Project Data Sheet

Borrower: Colorado Parks and Wildlife County: Rio Grande

Project Name: Beaver Park Dam **Project Type:** Reservoir Rehabilitation

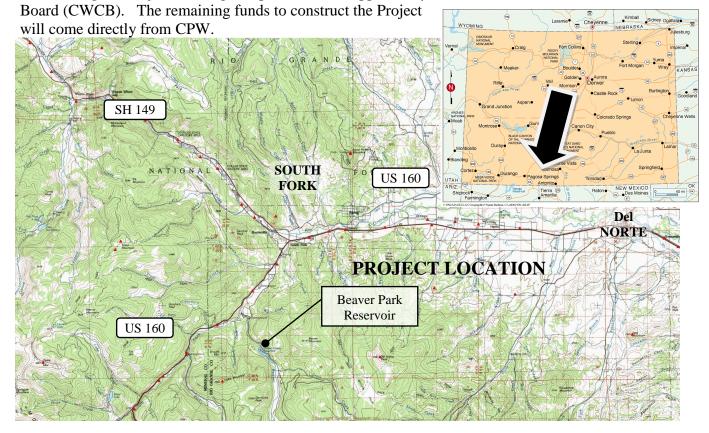
Drainage Basin: Rio Grande Basin Water Source: Beaver Creek

Type of Borrower: State Agency **Average Annual Diversion:** 4,434 AF

Restricted Capacity Reclaimed: 2,201 AF

CWCB Loan: \$10,000,000 Interest Rate: 0% Term: 30-year

Colorado Division of Parks and Wildlife (CPW) is applying for a loan for the Beaver Park Dam Rehabilitation Project (Project). Beaver Park Reservoir (Reservoir) was originally constructed in 1914 and provides for general recreation, fishing, and water storage. In 2010, a sinkhole along the left abutment was observed by the State Engineer's Office (SEO), which resulted in the SEO placing a 20 foot fill restriction on the Reservoir. The restriction resulted in the Reservoir's capacity being reduced from 4,758 to 2,557 acre-feet. To remove the restriction, CPW intends to construct a downstream filter/drain system, an upstream high density liner, and a spillway chute. The total Project cost for the alternative selected is \$15,939,606. The General Assembly authorized CPW for a \$10,000,000 loan, at a 0% interest rate, through the 2012 Projects Bill (SB12S-002) to assist in constructing the Project, contingent upon final loan approval by the Colorado Water Conservation



Water Project Loan Program – Project Data Sheet

Borrower: Crystal Lakes Water and Sewer Association County: Larimer

Drainage Basin: South Platte, District 1 **Water Source:** North Lone Pine Creek (tributary to Cache la Poudre River)

Total Project Cost: \$2,600,000 **Funding Source:** Construction Fund

Type of Borrower: Lower-Income Municipal Avg. Annual Diversion: 271 AF

CWCB Loan: \$2,363,400 (w/ 1% service fee) **Interest Rate:** 4.00% **Term:** 30 years

The Crystal Lakes Water and Sewer Association (Association) is requesting a loan to enlarge Lower Lone Pine Lake Reservoir from 10.5 AF to 100.5 AF. The enlargement will be used to store Upper Lone Pine Reservoir (no yet constructed) water rights in Lower Lone Pine Reservoir for the purpose of augmentation of well water consumption for residences of Crystal Lakes. The Crystal Lakes subdivision, a private community located in Larimer County, was established in 1969 and includes 1,656 lots distributed over 4,800 acres. More than 800 residences are currently served by the Association. The decreed augmentation plan specifically links the allowable use of water to the amount of augmentation water held in storage. Without increased storage capacity the community is likely to face routine water restriction. No change in use of the Upper Lone Pine Reservoir rights has been requested, only an alternate place of storage.

Location Map



CWCB Construction Loan Program Project Data Sheet

Borrower: Town of Dillon **County**: Summit

Project Name: Old Dillon Reservoir Enlargement **Project Type:** Reservoir Enlargement

Drainage Basin: Colorado River Water Source: Salt Lick Gulch

Total Project Cost: \$6,315,000 Total Cost **Funding Sources:** Construction Fund

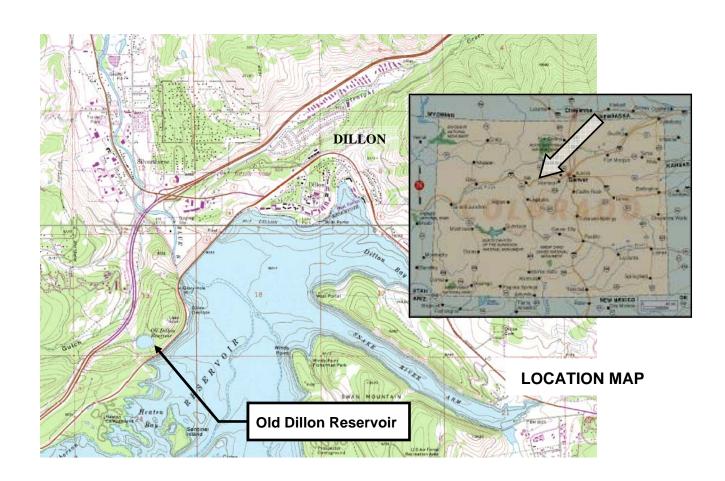
\$1,667,000 Town's Portion

Type of Borrower: Municipal Middle Income **Average Delivery:** 321 AF

New Storage: 109 AF (Restricted + New)

Loan Amount: \$1,515,000 (Including 1% fee) **Interest Rate:** 4.0% **Term:** 30 years

The Town of Dillon is applying for a loan to participate in the enlargement of the Old Dillon Reservoir. In 2004, the Town, Summit County and Town of Silverthorne signed an agreement to enlarge the reservoir. The Town's participation cost is approximately 27% of the construction costs and 20% of the Engineering costs. The Town and the County initiated a feasibility study in 1995. The Reservoir was originally constructed as a 46 AF raw water storage reservoir filled via the Dillon Ditch, which diverts from Salt Lick Gulch. The Reservoir site is southwest of the Dillon Reservoir Dam. In the summer of 2008, the SEO issued an order to drain the Reservoir due to concerns over the integrity of the north dam. The Reservoir is currently not available for storage. Permitting is underway and construction of the enlargement is scheduled to occur in 2010.



CWCB Water Project Loan Program Project Data Sheet

Borrower: Eckhardt Farms Inc. County: Weld

Project Name: Water Rights Purchase **Project Type:** Water Rights Purchase

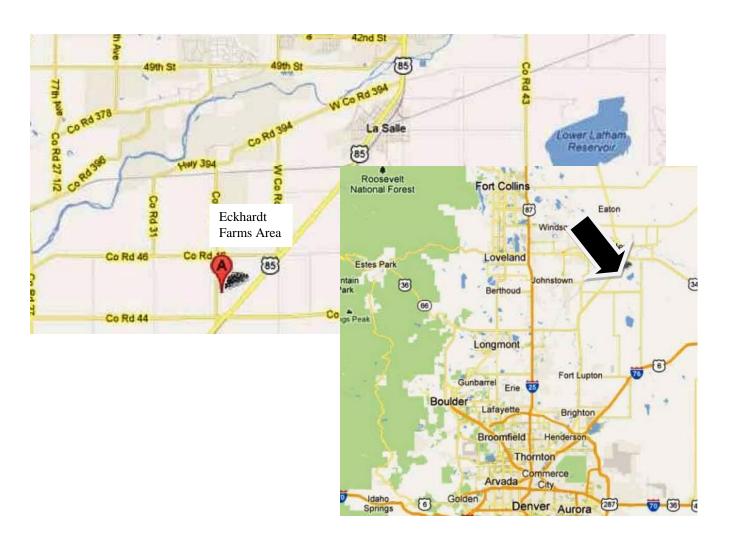
Basin: South Platte **District:** 1 **Water Source:** Western Mutual Ditch

Total Project Cost: \$1,470,000 **Funding Source:** Construction Fund

Type of Borrower: Agricultural Average Annual Diversion: 694 AF

CWCB Loan: \$1,336,230 (w/ 1% service fee) **Interest Rate:** 1.75% **Term:** 30-years

Eckhardt Farms Inc. is located in Weld County near LaSalle, Colorado. The farming Corporation has been incorporated since 1993. It farms 3,000 acres and generates revenues from crops of hay, wheat, corn, sugar beets, onions, and pinto beans. In the past, the Corporation was able to irrigate with well water. The wells it used are part of Central Colorado Water Conservancy District's – Well Augmentation Subdistrict and have not been able to be pumped since 2005. Since that time the Corporation has been leasing shares in the Western Mutual Ditch Company. Through this loan, the Corporation intends to purchase the water it has been leasing for the past seven years and continue to use it for agricultural production.



CWCB Water Project Loan Program Project Data Sheet

County: Adams/Jefferson

Borrower: Farmers' High Line Canal and

Reservoir Company

Project Name: System Rehabilitation **Project Type:** Ditch Rehabilitation

Drainage Basin/District: South Platte / 7 **Water Source:** Clear Creek

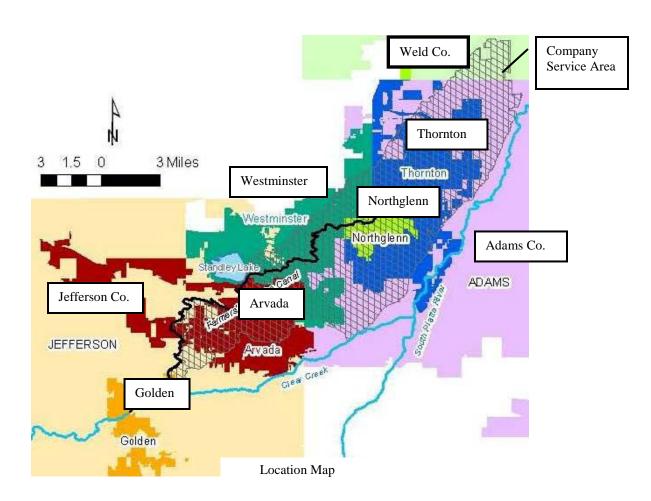
Total Project Cost: \$2,430,000 **Funding Source:** Construction Fund

Type of Borrower: Municipal **Water Delivery:** 24,000 AF/yr

CWCB Loan: \$2,209,597 (incl. 1% loan fee) Interest Rate: 4.65% Term: 30 years

(Blended rate)

The Farmers High Line Canal and Reservoir Company (Company) is a ditch company that was established in 1885. It diverts water off of clear creek and it delivers water through a 31 mile canal running from Golden to Northglenn, through Arvada and Westminster. The Company has completed a canal evaluation and engineering planning study and identified a list of improvements it intends to do with the CWCB loan proceeds. These items include: replacement of corroded drain pipes, replacement of three siphons, headgate rehabilitation, SCADA control system installation at the headgate, diversion dam rehabilitation, and tree removal along the ditch. This work is expected to be completed between the fall of 2010 through the winter of 2014.



Water Project Loan Program – Project Data Sheet

Borrower: Fisher Ditch Company County: Denver

(middle-income muni, high-income muni, commercial)

Drainage Basin: South Platte, District 7 **Water Source:** Clear Creek

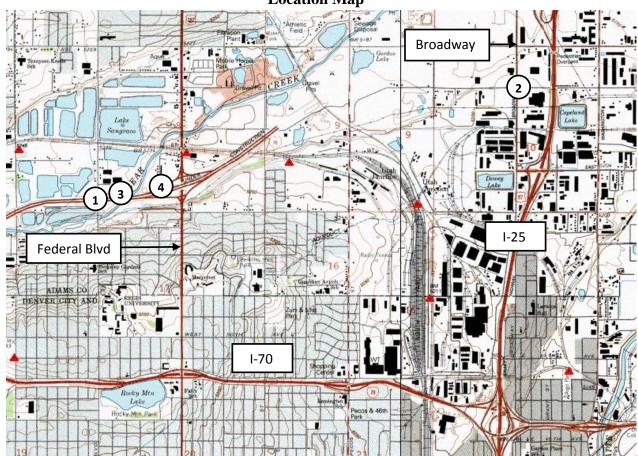
Total Project Cost: \$500,000 Funding Source: Construction Fund

Type of Borrower: Blended **Avg. Annual Diversion:** 7,623 AF

CWCB Loan: \$454,500 (w/ 1% service fee) Interest Rate: 5.95% Term: 30 years

The Fisher Ditch Company (Company) utilizes the Fisher Ditch to supply water to its 28 shareholders for the purpose of irrigation, augmentation and industrial uses. The ditch has been in place for over 100 years and annual maintenance of its aging infrastructure is becoming a burden and inhibiting its ability to provide a reliable supply of water. The Company is requesting a loan from the CWCB for four system rehabilitation tasks: 1) headgate rehabilitation, 2) replacement of 650 LF of damaged CMP with RCP, 3) installation of a sand-out pipe and gate, and 4) burying 1,500 LF of open ditch with plastic irrigation pipe. This Project will restore reliable water deliveries while reducing annual maintenance costs.

Location Map



CWCB Water Project Loan Program Project Data Sheet

Borrower: Town of Georgetown (Water and Sewer Enterprise)

County: Clear Creek County

Project Name: Outlet Works Modification Project Project Type: Dam Rehabilitation

Drainage Basin/District: South Platte / 7 **Water Source:** Clear Creek

Total Project Cost: \$3,275,000 **Funding Source:** Construction Fund

Type of Borrower: Middle-Income Municipal **Average Diversion:** 208 AF

CWCB Loan: \$2,976,975 (w/ 1% service fee) Interest Rate: 4.5% Term: 30 years

The Town of Georgetown is located on Clear Creek, along the I70 corridor, east of the continental divide. The Town needs to increase the outlet works capacity at Georgetown Lake Dam. The outlet works currently can release up to 260 cfs. In order to comply with an October 2010 court order regarding Georgetown Lake operations, up to 500 cfs must be released so the Town can meet the terms of its augmentation plan. The CWCB loan will be used to pay for the engineering costs and for the construction costs associated with the outlet works project. Construction is expected to begin in the spring of 2012 and should be complete by the end of the year.

Lake Georgetown Bara Rogers Inglo Saxon tine Buckeye Molly Bawn Saxon Democrat 3519 Mountain Mine Mountain Sherman Mountain Woodchuck Republican Plume Peak Powerline Mountain I-70 Georgetown Snowdrift Mine Griffith Mountain Silver Cloud Mine Silver Plume

Water Project Construction Loan Program - Project Data

Borrower: Greeley Irrigation Company County: Weld

Project Name: Greeley Canal No. 3 **Project Type:** Ditch Rehabilitation

Drainage Basin: South Platte Water Source: Cache La Poudre River

Total Project Cost: \$2,457,500 Funding Sources: CWCB, GIC

Type of Borrower: Agricultural/Municipal Aver. Delivery: 18,000 acre-feet

CWCB Construction Fund Loan: \$2,233,867 Interest Rate: 2.85% Term: 30 years

(incl. 1% loan fee)

GIC provides irrigation water to a service area of 2,367 acres in Weld County, generally within the City of Greeley and east of the City. GIC operates the Greeley Canal No. 3, constructed in 1870 by the Union Colony. In 1875, the Union Colony deeded an undivided 3/8ths interest in the Canal to the then Town of Greeley. In 1882, the GIC was incorporated and the Union Colony quit-claimed its remaining 5/8ths interest in the Canal to GIC. About 1,100 acres of the 3,500 original irrigated acres have been subject to dry-up, and water converted to augmentation use. Present canal usage is roughly 1/3 City of Greeley, 1/3 agricultural irrigation, and 1/3 augmentation. GIC facilities consist of a river diversion structure, approximately 13 miles of earthen canal, check structures, delivery headgates, spill structures, trash screens, and other minor structures. A portion of these facilities are in need of repair, upgrades, or replacement. GIC diverts water from the Cache la Poudre River west of Greeley and the canal terminates east of approx. 12 miles downstream. Average annual headgate diversions are 18,678 acre-feet. GIC also receives about 1300-1400 acre feet annually from Fossil Creek Reservoir. Combined delivery from direct flow diversions and storage is about 18,000 AF. The GIC Board is undertaking a number of phased improvements to the canal including: 1) repairs to, and partial replacement of, the river diversion; 2) piping or lining of portions of the canal: 3) consideration of canal automation using supervisory control and data acquisition (SCADA) equipment; 4) tree removal and tree pruning; 5) canal realignment, reshaping, and straightening; and 6) removal or repair of selected headgates and installation of new headgates. This is the first step of a phased canal modernization, that would have the effect of improving overall canal operations and operational efficiency; increasing consistency of shareholder headgate deliveries; decreasing operational liabilities; and reducing unnecessary operational spills.



CWCB Construction Loan Program Project Data Sheet

Borrower: Town of Gypsum County: Eagle

Project Name: LEDE Ditch & Reservoir Project Type: Reservoir Rehabilitation

Upgrade Project

Drainage Basin: Colorado River **Water Source**: Gypsum Creek

Total Project Cost: \$3,162,000 **Funding Sources:** Construction Fund

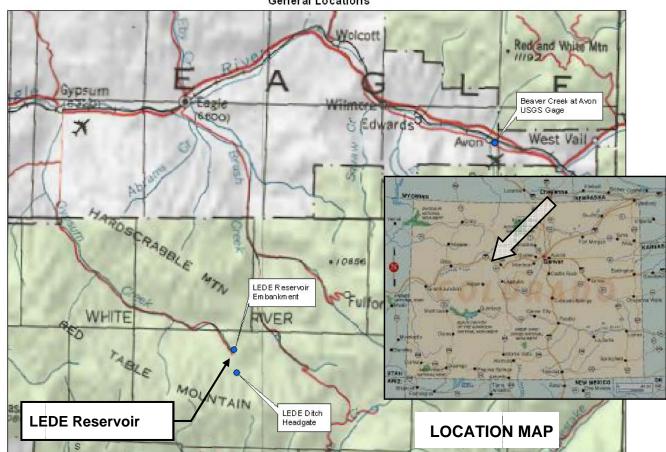
Type of Borrower: High Income Municipal **Average Delivery:** 1,200 AF

New Storage: 254 AF

Loan Amount: \$2,689,731 (Including 1% fee) **Interest Rate:** 4.5% **Term:** 30 years

The Town of Gypsum purchased the LEDE Ditch and LEDE Reservoir water rights in 2006. The original water rights are decreed for irrigation uses, and provide storage for up to 947 AF in the reservoir. The Reservoir was built to a capacity of 431 AF. The Town seeks to increase capacity to 685 AF in order to accommodate continued agricultural irrigation, and for future water supplies to the Town. This upstream storage is required to assist in managing Gypsum Creek water rights calls and dry year operations. The reservoir storage will become even more important as the Town's population continues to increase. The Town wishes to repair and improve the reservoir to utilize its potential, and to protect valuable senior storage rights in the reservoir. The reservoir is located in the headwaters of Gypsum Creek, south of Gypsum within the White River National Forest. Design and permitting is expected to occur in 2009/2010 with pipeline construction starting in late 2009 and dam construction starting in 2011.

General Locations



CWCB Construction Loan Program Project Data Sheet

Borrower: Joseph W. Bowles Reservoir Company County: Jefferson

Project Name: Bowles Reservoir No. 1 Dam Rehab Project Type: Reservoir Rehabilitation

Drainage Basin: South Platte Water Source: Bear Creek

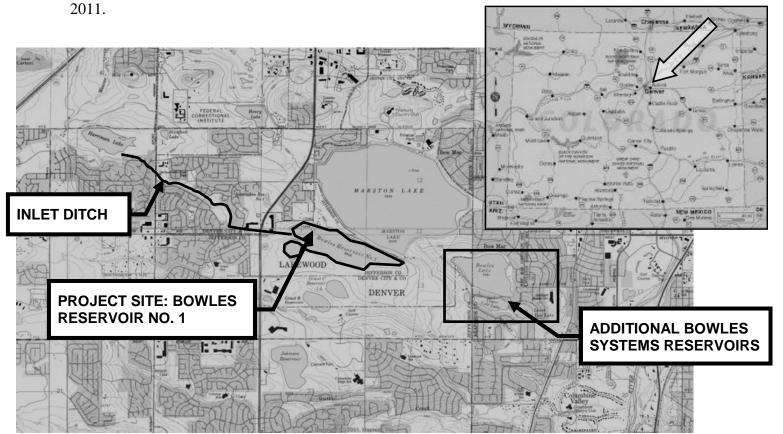
Total Project Cost: \$1,874,000 **Funding Sources:** Construction Fund

Type of Borrower: Blended Ag & Municipal **Average Delivery:** 900 AF

& Commercial

Loan Amount: \$1,703,870 (Including 1% fee) **Interest Rate:** 4.65% **Term:** 30 years

The Joseph W. Bowles Reservoir Company (Company) owns and operates Bowles No. 1 Reservoir, located in the southwest metropolitan area of Denver. The Company was formed in 1906 and currently has 50 shareholders who use the water for golf courses, parks, open space, and some individual ranches for irrigation water. The Company is applying for a loan to implement several repairs to correct dam-safety deficiencies and improve the long-term performance of Bowles No. 1 Dam and to rehabilitate the deteriorating reservoir inlet ditch. The dam rehabilitation includes widening the crest, reconstructing the upstream slope, and installing a seepage collection and toe drain system on the downstream slope. Work on the inlet ditch includes removing trees, reconstructing the ditch cross section and alignment, placing slope protection in high erosion areas, and installing a flow control pipe that will provide for discharge of excessive ditch flows into an existing spillway and drainage structure. The Company plans on submitting the final design to the SEO by February 2010 and beginning construction in August 2010 with completion by February



CWCB Water Project Loan Program Project Data Sheet

C150358

Borrower: Henrylyn Irrigation District County: Weld

Project Name: Prospect Reservoir Dam

Project Type: Reservoir Rehabilitation

Facing Project

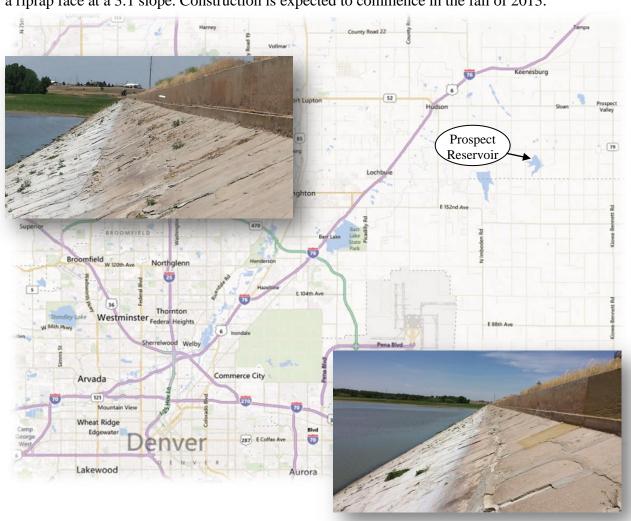
Drainage Basin/ District: South Platte / 1 **Water Source:** South Platte River

Total Project Cost: \$3,264,400 **Funding Source:** Construction Fund

Type of Borrower: Agricultural **Average Annual Diversion:** 39,950 AF

(with 1% service fee)

The Henrylyn Irrigation District was formed in 1907 under the Irrigation District Law of 1905. The District consists of 32,745 acres of irrigated farm land in Weld County. Their service area starts about 2 miles west of Hudson and extends generally east and south along I-76, to about 9 miles east of Keenesburg. Prospect Reservoir is an off-stream reservoir constructed in 1914 and has a Significant Hazard Large (Class 2) Dam with a height of 45 feet, a crest width of 18 feet, and a length of 5,300 lineal feet. The Prospect Reservoir Dam Facing Project will increase the erosion protection and dam stability by replacing a deteriorating concrete face at a 2:1 slope with a riprap face at a 3:1 slope. Construction is expected to commence in the fall of 2013.



CWCB Construction Loan Program Project Data Sheet

Borrower: Lake Canal Reservoir Company County: Larimer and Weld

Project Name: North Gray Reservoir **Project Type:** Reservoir Rehabilitation

Rehabilitation

Drainage Basin: South Platte River Water Source: Box Elder Creek

Total Project Cost: \$128,300 Funding Sources: Construction Fund

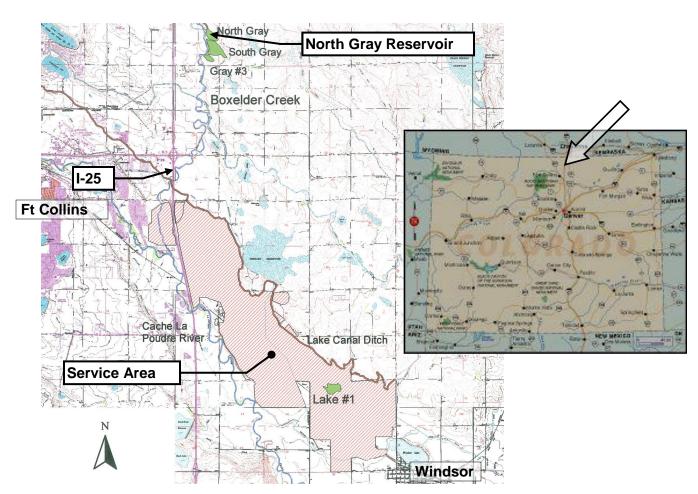
Type of Borrower: Blended Agricultural **Details:** 333 AF Stored

Municipal & Commercial 75 AF Recovered

Loan Amount: \$116,625 (Including 1% fee) **Interest Rate:** 2.10% **Term:** 30 years

The Lake Canal Reservoir Company is requesting a CWCB loan to construct a new spillway on North Gray Reservoir. The reservoir is currently under a storage restriction by the Office of the State Engineer (SEO). The existing spillway is a corrugated metal pipe that has corroded through. The existing pipe will be removed and the area will be backfilled. A new concrete cutoff wall and riprap lined channel will be constructed to replace the old spillway. Project design and SEO review is expected to be completed by July 2012. Construction is planned for September through November of 2012.

Note: Because this reservoir is on the SEO's restricted reservoir list and the Company is predominately owned by agricultural interests, this loan qualifies for a 1.0% interest rate reduction. The blended rate of 3.10% was reduced to 2.10%.



Water Project Loan Program - Project Data

Borrower: Left Hand Ditch Company County: Boulder

Project Name: Allen Lake and Lake **Project Type:** Dam Rehabilitation

Isabelle Repair Project

Drainage Basin: South Platte, District 5 **Water Source:** Left Hand and St. Vrain Creek

Total Project Cost: \$1,273,000 **Funding Source:** Construction Fund

Type of Borrower: Blended **Avg. Annual Delivery:** 22,700 AF

(46% ag, 38% mid-muni, 16% high-muni)

CWCB Loan: \$1,157,157 (incl. 1% loan fee) Interest Rate: 2.45% Term: 30 years

The Company diverts water from Left Hand and St. Vrain creeks to provide irrigation water for a 15,000-acre service area in Boulder County. The water delivery system includes an elaborate network of ditches, laterals, reservoirs and headgates. Two of the Company's five reservoirs, Lake Isabelle and Allen Lake, are in need of repair. Lake Isabelle lies within the Indian Peaks Wilderness which is operated by the Forest Service. The outlet works are deteriorated and unreliable. This project will reconstruct the outlet works while placing the control valve at a more accessible location. The second reservoir, Allen Lake, is located just north of Boulder and west of Highway 36. Its dam was constructed at a 2:1 slope, and is even greater in various locations due to years of wave action displacing rip-rap and eroding the dam face. This project will flatten out the slope and re-armor it with rock rip-rap.



Water Project Loan Program - Project Data

Borrower: Lower Latham Reservoir Company County: Weld

Project Name: Well Augmentation Proj. (Ph III) Project Type: Water Rights Purchase & Construction of

Recharge Facilities

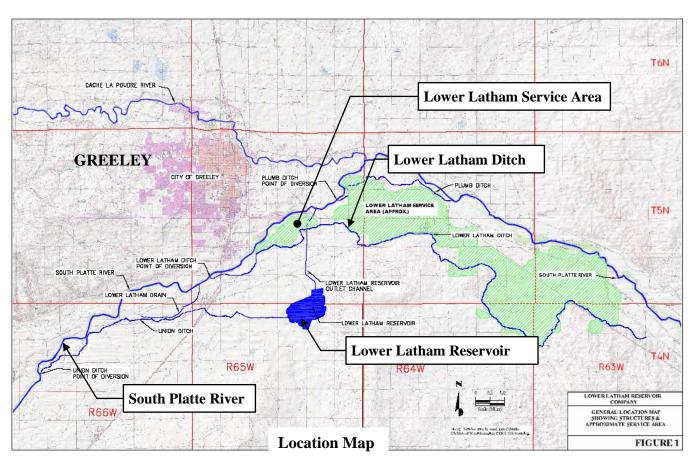
Drainage Basin: South Platte Water Source: South Platte River

Total Project Cost: \$4,193,150 **Funding Sources:** Construction Fund

Type of Borrower: Agricultural **Aver. Delivery:** 5,705 AF

CWCB Loan: \$3,811,573 (incl. 1% loan fee) Interest Rate: 2.75% Term: 30 years

The Lower Latham Reservoir Company (Company) is acquiring five shares of Lower Latham Ditch Company, for the purpose of providing augmentation water for existing shareholder wells. It is also constructing groundwater recharge facilities and other system improvements to utilize these shares and shares acquired in phases I & II of the project (both of which were financed by the CWCB). The Company provides augmentation water for 84 wells in Weld County by replacing out-of-priority pumping depletions. 39 of these wells were formerly in the GASP Augmentation Plan, and the remaining 45 wells are covered in the Augmentation Plan of Central Colorado Water Conservancy District's GMS. The Company is attempting to cover the former GASP wells, and supplement coverage of the GMS wells with their own augmentation plan. In 2003, the Company filed a permanent well augmentation plan that is pending. The Company has concluded that additional replacement sources are necessary to provide sufficient replacement water during extended drought years. A 2010 SWSP for the Company was revised and submitted to the SEO in December 2009.



Agenda Item 20a.

Water Project Construction Loan Program-Project Data

Borrower: Mancos Water Conservancy District

Project Name: Mancos Project Project Type: System Rehabilitation

County: Montezuma Drainage Basin: San Juan Water Source: West Mancos River

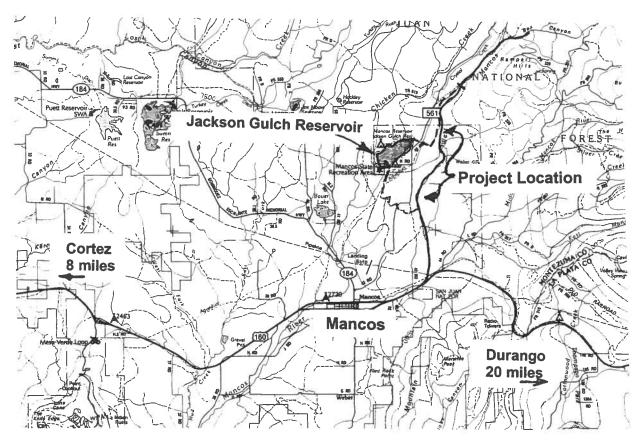
Total Project Cost: \$6,619,550 **Funding Sources:** Borrower and CWCB

Type of Borrower: Agricultural/Municipal Median Household Income: Low

CWCB Loan: \$5,486,531 Interest Rate: 2.8% Term: 30 years

Annual Volume of Water delivered: 9,000 acre-feet

The Mancos Water Conservancy District is located in Montezuma county and supplies supplemental and full service irrigation water to a 13,496-acre service area. District facilities were constructed over 50 years ago, and are in need of rehabilitation. The Mancos Water Conservancy District was formed in 1941 under the Water Conservancy Act of 1937. It has the power to acquire water rights, construct and operate facilities, levy taxes, and issue debt subject to the provisions of TABOR. The District has completed the feasibility study. Project funding will come from a \$5,486,531 loan from the CWCB, and the remainder from the District.



Location Map

Water Project Loan Program - Project Data

Borrower: City of Monte Vista County: Rio Grande

(Water Activity Enterprise)

Project Name: Augmentation Water Rights Project Type: Water Rights Purchase

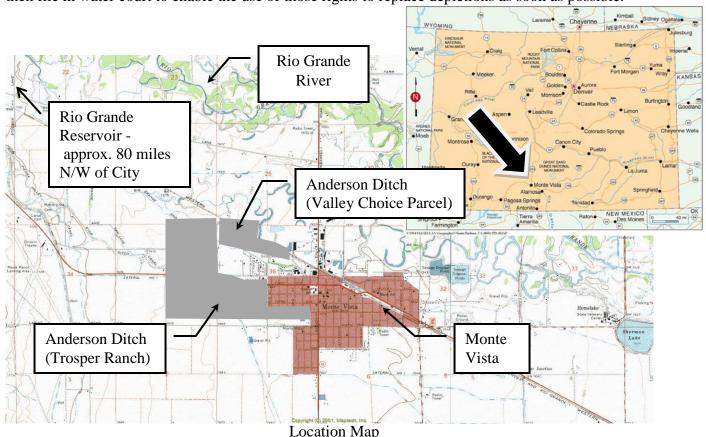
Acquisition **Drainage Basin:** Rio Grande **Water Source:** Rio Grande River

Total Project Cost: \$1,863,500 **Funding Source:** Construction Fund

Type of Borrower: Low-Income Municipal **Aver. Demand:** 1,212 AF/year

CWCB Loan: \$1,693,770 (incl. 1% loan fee) Interest Rate: 4.0% Term: 30 years

The City of Monte Vista, by and through its water activity enterprise, provides water to 4,300 residents in the San Luis Valley. The City's water system consists of five wells in a confined aquifer and three wells in an unconfined aquifer. Upcoming rules from the Office of the State Engineer will require water users in the San Luis Valley to replace depletions from pumping of wells in both the confined and unconfined aquifers tributary to the Rio Grande River. The water rights currently owned by the City are insufficient to fully replace the City's depletions. The City needs an additional 321 AF of replacement water. In order to meet this need, the City is purchasing Anderson Ditch water rights and storage in the Rio Grande Reservoir to store both the excess credits from the water it is purchasing and to store additional water it intends on leasing. Upon loan approval, the City plans on executing purchase agreements with the sellers of the Anderson Ditch rights and will then file in water court to enable the use of those rights to replace depletions as soon as possible.



Water Project Loan Program – Project Data Sheet

Borrower: North Delta Irrigation Company County: Delta

Project Name: NDIC Tunnel Repair Project Project Type: Ditch Rehabilitation

Drainage Basin: Gunnison River Basin, District 40 Water Source: Gunnison River

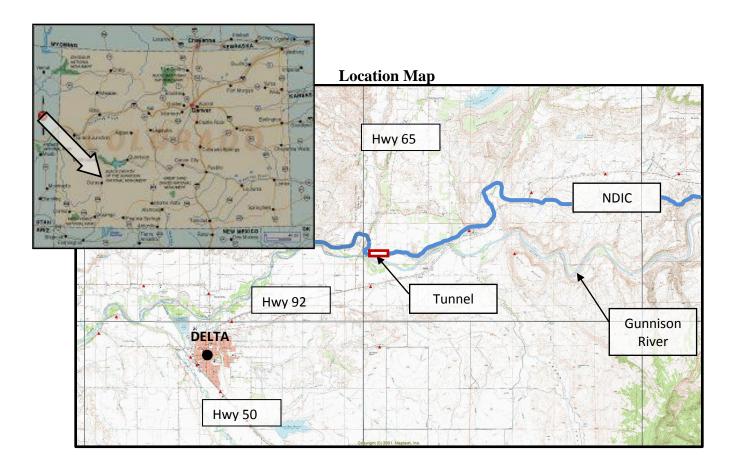
Total Project Cost: \$1,210,000 **Funding Source:** Construction Fund/WSRA

Type of Borrower: Blended **Avg. Annual Delivery:** 17,735 AF

(70% Agricultural, 30% Low-income municipal)

CWCB Loan: \$808,000 (w/ 1% service fee) Interest Rate: 3.10% Term: 30 years

The North Delta Irrigation Company is responsible for supplying water to its 174 shareholders for the irrigation of 2,300 acres of land. The water is delivered through the North Delta Irrigation Canal. A two-mile stretch of the twenty-three mile canal is located along the steep hillside paralleling the Gunnison River, and includes three tunnels. The longest tunnel, 1,450 feet in length, experienced a collapse in July 2011, blocking deliveries to 94% of its shareholders. This project will repair the tunnel by removing the blockage, installing 1,500 LF of 54" fused HDPE and underdrain system, and backfilling the HDPE with grout. Additional funding for the project includes an \$800,000 WSRA grant approval from the Gunnison Basin Round Table.



Water Project Loan Program - Project Data

Borrower: Ordway Feedyard, LLC **County**: Crowley

Line Extension Project

Drainage Basin: Arkansas, District 17 **Water Source:** Groundwater

Total Project Cost: \$3,381,500 **Funding Source:** Construction Fund, WSRA,

Crowley County, LAVWCD

Type of Borrower: Agricultural **Avg. Annual Delivery:** 500 AF (Feedyard)

1,000 AF (Ranch)

CWCB Loan: \$2,525,000 (incl. 1% loan fee) Interest Rate: 1.75% Term: 30 years

WSRA Grant: \$275,000 (\$25,000/\$225,000)

The Company utilizes the feedyard to feed and tend cattle until they are market ready. The Company owns both the feedyard and River Ranch. The ranch has 20 existing wells which are decreed for irrigation and stock watering. Currently there is no means to convey water between the ranch and feedyard. This project will secure a more reliable and affordable water supply by completing an infrastructure network capable of delivering high-quality well water from the ranch to the feedyard to augment its dependence on potable (approximately 14 AF per year) and leased water. The water supply enhancements are expected to reduce operational costs and preserve transit and evaporation losses at an estimated rate of 850 AF annually. The economic benefit to Crowley County has made it an active participant in the project, contributing cash and applying for a WSRA grant to assist in funding the Project. The Project consists of two phases. Phase one includes the reestablishment of easements and the rehabilitation of: 4.2 miles of existing pipe line, 4 groundwater wells, and 2 booster stations. Phase two includes installation of the remaining infrastructure necessary to complete the delivery system. Construction is expected to begin in the summer of 2013 with completion by the summer of 2014.



CWCB Construction Loan Program Project Data Sheet

Borrower: Overland Ditch and Reservoir Co. County: Delta

Project Name: Overland Reservoir Enlargement Project Type: Reservoir Enlargement

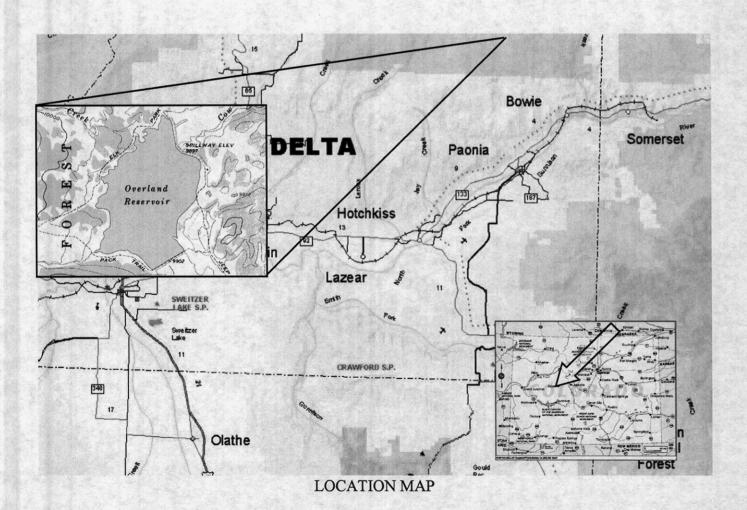
Drainage Basin: Gunnison River Basin Water Source: Cow Creek

Total Project Cost: \$1,255,555 Funding Sources: CWCB & Local Bank

Type of Borrower: Agricultural Average Delivery: 17,000 acre-feet

Loan Amount: \$1,130,000 Interest Rate: 2.5% Term: 30 years

The Overland Reservoir Company is a non-profit mutual ditch company established in the State of Colorado in 1895. The Company owns and operates the Overland Reservoir for the 120 shareholders and delivers an average of 17,000 AF of irrigation water annually. The Reservoir is located in Delta County in the Gunnison National Forest at an elevation of 10,000 feet. The Reservoir has a current storage capacity of 6,200 AF and will be increased to 7,171 AF with this project. The reservoir was built in 1905 and required significant repair work in 1987 by the Company with financial assistance from CWCB and the Bureau of Reclamation. This project consists of raising the spillway elevation by 3.8 feet, installing toe drains, increasing the dam crest width and adding necessary embankment protection. Construction is scheduled to begin in the summer of 2007.



WATER PROJECT CONSTRUCTION LOAN PROGRAM-PROJECT DATA

Borrower: Owl Creek Reservoir Company/J. Gale and Valerie A. Moody

Project Name: Owl Creek Reservoir Project

Project Type: Rehabilitation

Drainage Basin: Owl Creek Tributary County: Larimer Water Source: Owl Creek

Total Project Cost: \$1,250,000

Funding Source: CWCB

Type of Borrower: Agricultural

Median Household Income: N/A

CWCB Construction Fund Loan: \$1,125,000

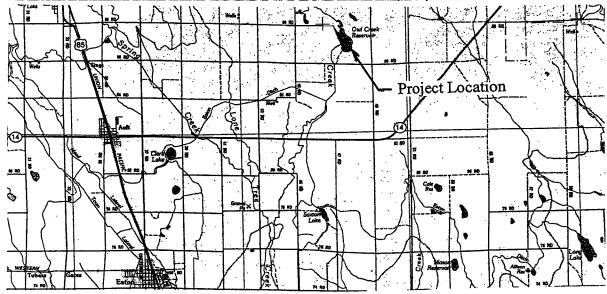
Interest Rate: 3.25%

Term: 30-years

CWCB Grant: \$0

Reservoir Volume: 1,200 acre-feet

Owl Creek Reservoir is land located in Weld County, Colorado, approximately 6 miles east and 3 miles north of the Town of Ault. The reservoir was originally constructed in 1896 to store water for irrigation. The dam was constructed of a granular material, that over the years suffered structural damage due to seepage. In 1983 sand boils appeared along the toe of the dam giving evidence that piping was occurring along the dam embankment. Given the condition of the dam embankment and the potential for failure, the dam was intentionally breached in 1983. The proposed project involves rehabilitating the existing facility to meet the State of Colorado's "Rules and Regulations for Dam Safety and Dam Construction", therefore permitting the storage of approximately 1,200 acre-feet of water. The Applegate Group, Inc., has completed preliminary design plans and specifications for the project. Proposed funding for the project consists of a CWCB Construction Fund Loan for \$1,125,000.



Location Map

Water Project Construction Loan Program - Project Data

Borrower: Penrose Water District (PWD)

Water Activity Enterprise

County: Fremont

Project Name: Penrose Raw Water Acquisition

and Development Project

Project Type: Water Rights Purchase and

Raw Water Pipeline

Drainage Basin: Arkansas **Water Source:** Arkansas – Pleasant Valley Ditch

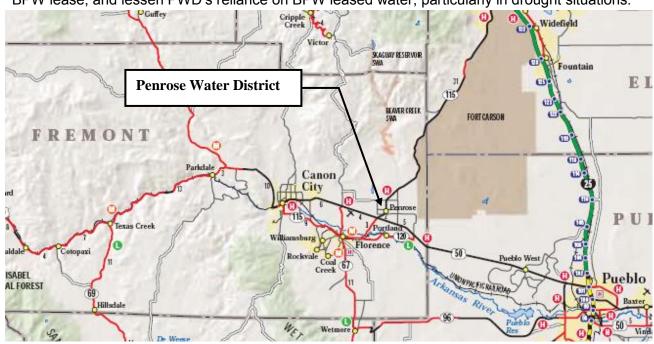
Total Project Cost: \$9,730,000 Funding Sources: CWCB, PWD, DOLA

Type of Borrower: Municipal/Low **Aver. Delivery:** 339 AF consumptive use

CWCB Construction Fund Loan: \$8,844,570 **Interest Rate:** 3.25% **Term:** 30 years

(incl. 1% loan fee)

The PWD currently provides domestic water to approximately 4,000 people with 1,700 taps in and around the Town of Penrose, with existing demand of 489 acre-feet per year. PWD's water supply is obtained by a lease with the Beaver Park Water, Inc. (BPW) who owns and operates Brush Hollow Reservoir. The 1990 lease has a 30-year term, and provides an increasing amount of water each year, 751 AF in 2006, leveling out at 1,000 AF in 2020. In drought years, the amount available to PWD is further reduced below the contract amount. Future build-out demand in 2040 is projected to be 1,200 acre-feet for about 8,000 residents and 3,240 taps. The proposed Enterprise project includes the acquisition of 10/12th of the Pleasant Valley Ditch water rights near Howard, with a change in use and change in point of diversion approximately 50 miles downstream to Sec. 13, T19S, R69W. Water will be obtained through the installation of 7 shallow alluvial wells immediately north of the Arkansas River, and then pumped approximately 5.8 miles through a 12-inch transmission line to Brush Hollow Reservoir. As part of the project, Brush Hollow Reservoir will be enlarged by raising the dam four feet. Because of the drought, there has been reduced availability of water from BPW. The project and water rights purchase will supplement the existing BPW lease, and lessen PWD's reliance on BPW leased water, particularly in drought situations.



Water Project Loan Program - Project Data Sheet

Borrower: Pisgah Reservoir and Ditch Company **County**: Teller

Project Name: Mt. Pisgah Dam/Wrights Project Type: Reservoir Rehabilitation

Reservoir Outlet Works Rehabilitation

Drainage Basin: Arkansas River, District 12 **Water Source**: Fourmile Creek

WSRA Grant

Type of Borrower: Blended **Average Water Delivery:** 86,000 AF

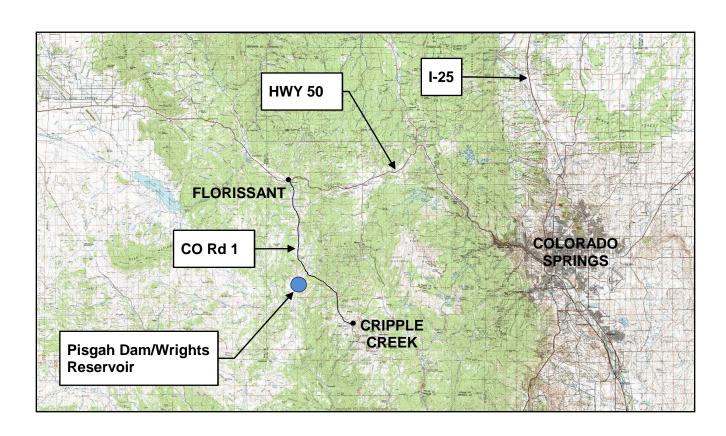
(93% Ag, 7% low-income Muni) Water Storage: 2,192 AF

Loan Amount: \$161,345 (Including 1% fee) **Interest Rate:** 1.75% **Term:** 30 years

WSRA Grant Amounts: \$25,000 Arkansas Basin & \$136,345 Statewide

The Pisgah Reservoir and Ditch Company is applying for a \$161,345 loan to modify the inlet/outlet works and replace existing control valves on Pisgah Dam, in compliance with an SEO conditional order. By complying with the SEO recommendations the Company can avoid a storage level restriction on the reservoir. The Company has 25,000 shares issued amongst 573 current shareholders. The purpose of the Company is to provide raw water for the irrigation of approximately 20,000 acres of agricultural land across an 18 mile stretch from Manzanola to La Junta. Primary shareholders include Catlin Canal Company, Canon Heights Irrigation and Reservoir Company, Park Center Water District, City of Rocky Ford, Colorado Parks and Wildlife, and individual agricultural users.

LOCATION MAP



Water Project Construction Loan Program - Project Data

Borrower: Platte Valley Irrigation Company County: Weld

Project Name: Platte Valley Reservoir No. 1 **Project Type:** New Equalizer Reservoir

Drainage Basin: South Platte **Water Source:** Evans Ditch No. 2

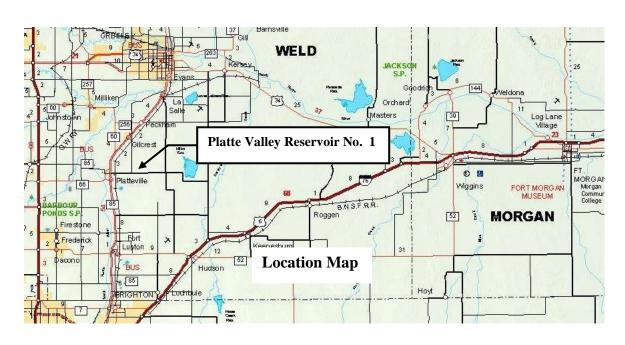
Total Project Cost: \$2,628,600 Funding Sources: CWCB, PVIC

Type of Borrower: Agricultural **Aver. Delivery:** 52,401 acre-feet

CWCB Construction Fund Loan: \$2,388,650 Interest Rate: 2.25% Term: 20 years

(incl. 1% loan fee)

PVIC is a Colorado mutual ditch company and non-profit corporation serving approximately 14,832 acres of irrigated farm land in Weld County east of Platteville. PVIC diverts water for irrigation from the South Platte River near Fort Lupton and shares a jointly owned headgate with Farmers Reservoir and Irrigation Company (FRICO), as well as about 10 miles of the jointly owned Platte Valley Canal. Flow is divided at a bifurcation structure and PVIC water is carried in the Evans No. 2 Ditch. Average annual diversions are 52,401 acre-feet. PVIC needs an equalizer on the ditch to allow for more efficient management of the water, as well as additional measurement and control structures on their main ditch. They have purchased a 80 acre property to construct a reservoir. PVIC needs to improve the flow measuring capability of various reaches in the ditch, as directed by Water Court, in order to claim recharge credits in their system. The reservoir will have a junior water right for storage of water directed to PVIC's recharge program. In an average year the reservoir is expected to store 300 acre feet, with a 300 acre feet refill. Construction will consist of a 431 acre-foot reservoir with a 14 foot high dam embankment with 10:1 upstream slopes and 3:1 downstream slopes. The reservoir bottom will be lined using clay from the required excavation as necessary to exclude groundwater. The outlet will be a 48 inch RCP, configured to act as the principal spillway. The project also includes relocation of an existing section of Evans No. 2 Ditch below the split from the Platte Valley Canal, modification of the existing bifurcation structure, and construction of three (3) new Parshall Flumes in various reaches of the ditch, as directed by the Water Court.



Water Project Loan Program - Project Data

Borrower: Riverside Ditch & Allen Extension Co. County: Chaffee

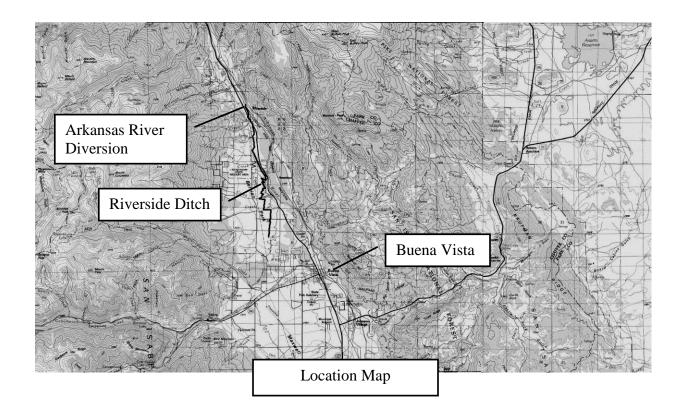
Drainage Basin: Arkansas River

Total Project Cost: \$205,000 **Funding Source:** Construction Fund

Type of Borrower: Agricultural **Average Diversion:** 3,250 acre-feet

CWCB Loan: \$186,345 (Including 1% fee) **Interest Rate:** 2.75% **Term:** 30 years

The Riverside Ditch and Allen Extension Company (Company), located near Buena Vista, owns and operates the Riverside Ditch (canal) that provides irrigation water to a 450 acre service area within Chaffee County. A significant portion of the Company's structures along the 125 year old canal are aged and in need of repair or replacement. The Company intends to complete a number of phased improvements to the canal that include: repairs to the river diversion; lining of portions of the canal to reduce seepage; installation of canal monitoring using SCADA equipment; phreatophyte removal; repair/replacement of aging headgates; and installation of standardized flumes. The proposed improvements would benefit the shareholders by improving overall canal efficiency, thereby increasing the consistency of shareholder headgate deliveries. These improvements will also benefit the Company through increased operator safety. Improvements are expected to be completed between the winter of 2009 and spring of 2012.



CWCB Construction Loan Program Project Data Sheet

Borrower: Riverside Reservoir and Land Co. County: Weld

Project Name: Emergency Spillway Project **Project Type:** Reservoir Rehabilitation

Drainage Basin: South Platte **Water Source**: South Platte River

Total Project Cost: \$3,120,000 **Funding Sources:** Severance Tax Trust Fund

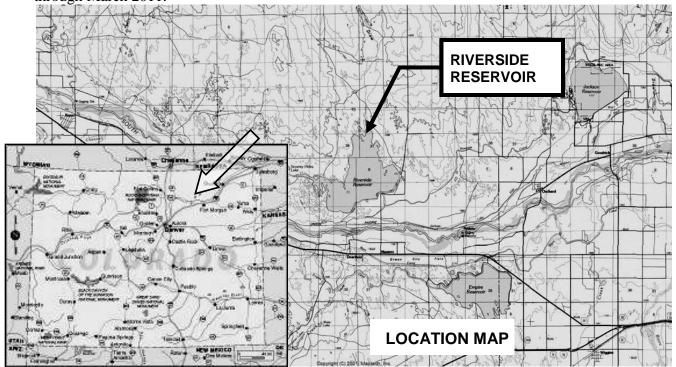
Perpetual Base Account

Type of Borrower: Agricultural **Average Delivery:** 39,000 AF (from Reservoir

storage) (105,000 Total AF for Company)

Loan Amount: \$2,838,100 (Including 1% fee) **Interest Rate:** 2.5% **Term:** 30 years

The Riverside Reservoir and Land Company (Company) owns and operates the 64,000 acre-foot capacity Riverside Dam and Reservoir, an inlet canal known as Riverside Ditch, and a river diversion structure located near the town of Kersey, Colorado. The Company diverts water from the South Platte River, approximately 10 miles downstream of Greeley, Colorado. It stores water primarily during winter months for irrigation releases during the following water season. The Company, formed in 1902, delivers irrigation water to approximately 50,000 acres. The Company is applying for a loan to install a spillway at Riverside Reservoir (Reservoir). The Reservoir is not equipped with an emergency spillway, which is required by the DWR's *Rules and Regulations for Dam Safety and Dam Construction*. There is currently a nominal restriction of 0.05 feet (200 AF of storage loss) due to the lack of a spillway. In order to enhance the safety of the Reservoir and prevent further storage restrictions, the Company plans on constructing an emergency spillway. The final design is expected to be complete in January 2010 with construction occurring from July 2010 through March 2011.



Borrower: Roxborough Water and Sanitation

District, Water Activity Enterprise

County: Douglas

Project Name: Raw Water Supply Project **Project Type:** Water Acquisition

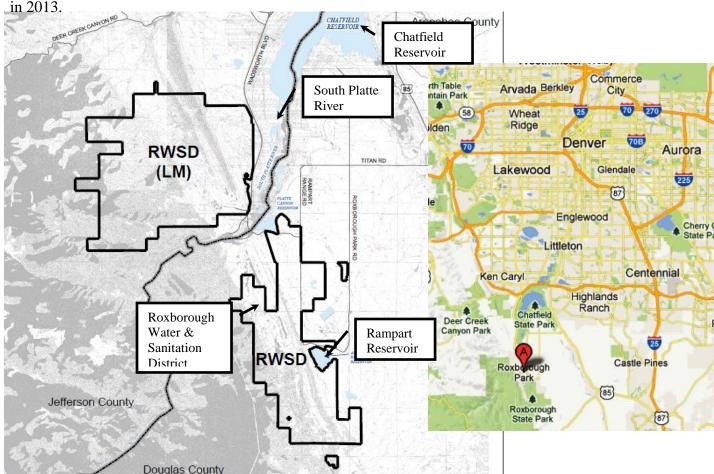
Basin: South Platte **District:** 8 **Water Source:** South Platte

Total Project Cost: \$26,313,150 **Funding Source:** Construction Fund

Type of Borrower: High-income municipal **Average Annual Diversion:** 1,141 AF

CWCB Loan: \$18,538,550 (w/ 1% service fee) **Interest Rate:** 3.25% **Term:** 30-years

The Roxborough Water and Sanitation District is applying for a loan for the Raw Water Supply Project. Since 1972 the District has been leasing water from Aurora through an agreement that expires in 2022. After many years of discussion, the District has reached an agreement with Aurora to purchase a permanent raw water supply. The agreement is based on the use of Aurora's existing and future raw water supplies and infrastructure. Through this agreement, the District is paying a connection fee for 3,400 Equivalent Residential Units. Aurora will deliver up to 1,800 AF annually through its existing system for treatment by the District. In addition, 285 AF will be delivered annually for irrigation customers within the District. The agreement is expected to be implemented



CWCB Construction Loan Program Project Data Sheet

Borrower: Sanchez Ditch and Reservoir Co. County: Costilla

Rehabilitation Project

Basin / District: Rio Grande / 24 **Water Source(s)**: Ventero Creek

Total Project Cost: \$2,032,000 **Funding Sources:** Construction Fund &

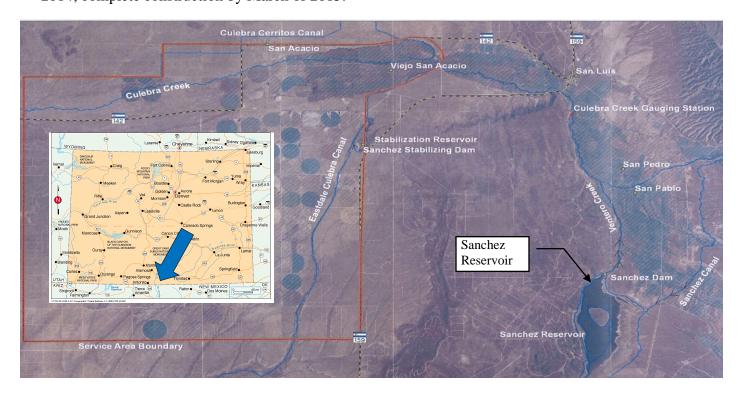
WSRA (Basin & Statewide funds)

Type of Borrower: Agricultural **Average Diversions:** 15,000 AF

Loan Amount: \$1,128,776 (Including 1% fee) **Interest Rate:** 1.75% **Term:** 30 years

WSRA Grant Amounts: \$55,000 Rio Grande Basin & \$859,400 Statewide

The Company provides irrigation water for users in Costilla County, southwest of the town of San Luis. The Company's primary storage reservoir is Sanchez Reservoir. The approximately 104,000 acre-foot reservoir was built in 1910. The reservoir's outlet includes a 135 foot tall concrete gate tower. In order to access the gates to operate the dam, a tramway/gondola runs along a cable and is powered by a portable gasoline generator. Because daily access to the tower is required during irrigation season, the reliability and safety of the gondola system has been a concern of the Company. Using loan and grant funds, the Company intends to address the safety and operational management concerns at the reservoir through the demolition of the gate tower; the installation of new control gates and operators; lining the existing outlet conduit with shotcrete; repairing the downstream outlet structure; and, installing a new perimeter drain and weir along the right side of the outlet structure to control seepage. The project schedule is estimated as: final design and State Engineer's Office (SEO) approval between January 2013 and January 2014; bid the project in May of 2014; award the bid by June of 2014; start construction in September of 2014; complete construction by March of 2015.



Borrower: Santa Maria Reservoir Company **County:** Hinsdale & Mineral

Project Name: Santa Maria Siphon and Canal **Project Type:** Dam Rehabilitation & Ditch

System Rehabilitation Project Rehabilitation

Drainage Basin: Rio Grande / District 20 **Water** North Clear Creek

Source:

Total Project \$1,855,000 **Funding** Construction Fund and

Cost: Source: Water Supply Reserve

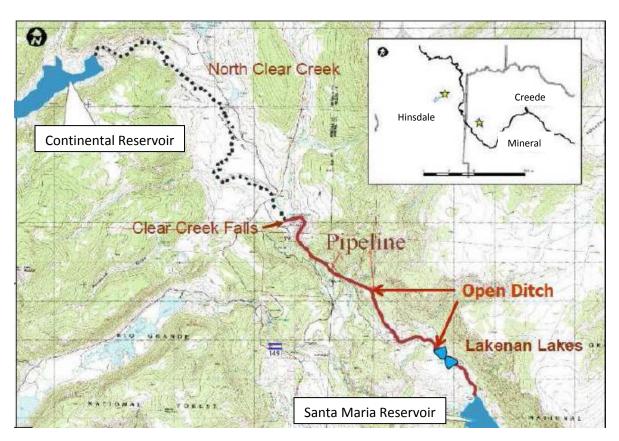
Account Grants

Type of Agricultural **Avg. Annual** 6,300 AF

Borrower: Diversion:

CWCB Loan: \$1,405,163 (w/ 1% service fee) **Interest Rate:** 1.75% **Term:** 30 years

Santa Maria Reservoir Company owns and operates Continental Reservoir (27,000 AF) and Santa Maria Reservoir (43,500 AF), located in the Rio Grande River Basin near Creede, Colorado. Santa Maria and Continental operate in conjunction with each other via a century old conveyance system made up of a pipeline, siphon, and open ditch. For the past 20 years, Continental has been under a storage restriction due to seepage issues, limiting the storage to 15,000 AF. The Company is planning a two phased approach to rehabilitate its system. The first phase (the subject of this funding request) is the rehabilitation of the conveyance system between the reservoirs including repairs to the siphon and lining of the canal. Construction is expected to occur in the summer/fall of 2013.



Borrower: Terrace Irrigation Company County: Conejos

Project Name: Spillway Replacement Project Project Type: Reservoir Rehabilitation

Drainage Basin: Rio Grande River Basin, District 21 **Water Source:** Alamosa River

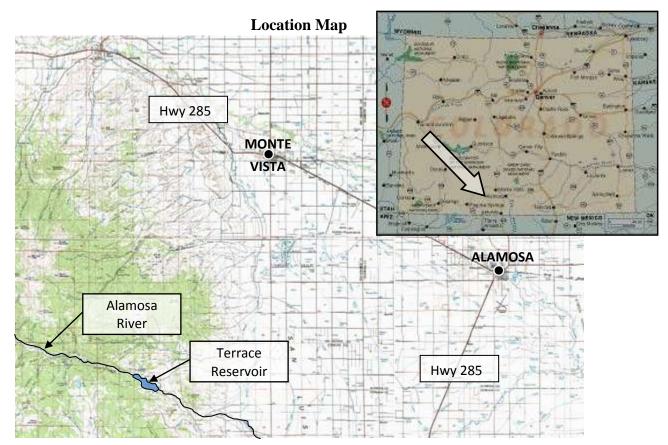
Total Project Cost: \$4,500,000 **Funding Source:** Construction Fund

Type of Borrower: Agricultural **Avg. Annual Delivery:** 15,339 AF

CWCB Loan: Project: \$1,010,000 (w/ 1% service fee) **Interest Rate:** 1.75% **Term:** 30 years

Consolidated: \$2,751,968 (with a 1% Restricted Reservoir reduction)

The Company, responsible for supplying irrigation water to its shareholders for irrigation of 9,300 acres of agricultural lands, is also an active participant in the Alamosa River Instream Flow Project. The ISF Project is intended to restore flows and replace natural resources damaged by mining operations in the upper reaches of the Alamosa River. The Company relies on Terrace Reservoir to meet its irrigation demands throughout the later part of the irrigation season. The reservoir is currently under a restriction order from the SEO, reducing its available capacity by 2,000 AF. This project will replace the existing spillway and remove the SEO restriction order. Funding for this project includes grant money from WSRA (\$1,500,000) and the Summitville Natural Resource Damage (NRD) account (\$2,000,000). In return for NRD funding, the Company has agreed to donate 2,000 AF of storage in Terrace Reservoir towards instream flow storage to further the efforts of the ISF Project. Construction is expected to begin in summer/fall of 2012 and be completed by the end of 2013.



Borrower: Thunderbird Water and Sanitation District County: Douglas

Project Name: Lambert Ranch Water Rights Purchase Project Type: Water Rights Purchase

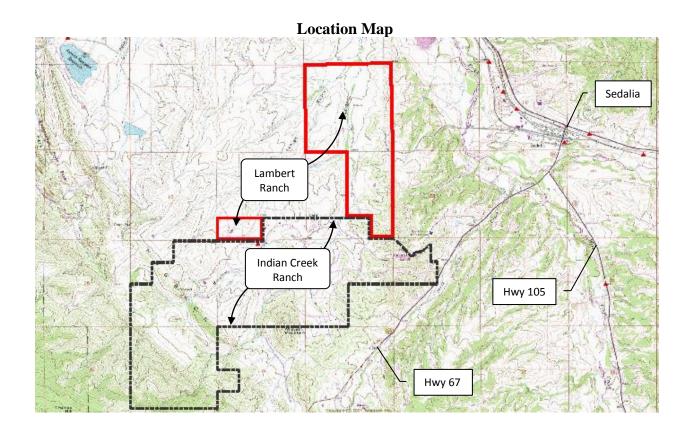
Drainage Basin: South Platte, District 8 **Water Source:** Denver Basin Aquifer

Total Project Cost: \$350,000 Funding Source: Construction Fund

Type of Borrower: Middle-Income Municipal Avg. Annual Delivery: 55 AF

CWCB Loan: \$318,150 (w/ 1% service fee) Interest Rate: 4.25% Term: 20 years

The Thunderbird Water and Sanitation District (District) provides potable water service for the Indian Creek Ranch subdivision, consisting of 2,420 acres and 175 customers. The District is applying for a loan to purchase 895.9 AF of Denver Basin decreed ground water rights that underlie the property known as Lambert Ranch. On average, the District delivers approximately 55 AF annually. The increase would enable the District to enlarge its available supply; thereby increasing system reliability, providing the redundancy necessary to allow for system maintenance and protect against aquifer depletions.



CWCB Construction Loan Program Project Data Sheet

Borrower: Tri-County Water Conservancy District County: Ouray, Montrose, Delta

Project Name: Ridgway Reservoir Micro-Hydro **Project Type:** Hydroelectric

Drainage Basin: Gunnison, District 68 **Water Source**: Uncompange River

Total Project Cost: \$17,000,000 **Funding Sources:** Construction Fund,

CWRPDA

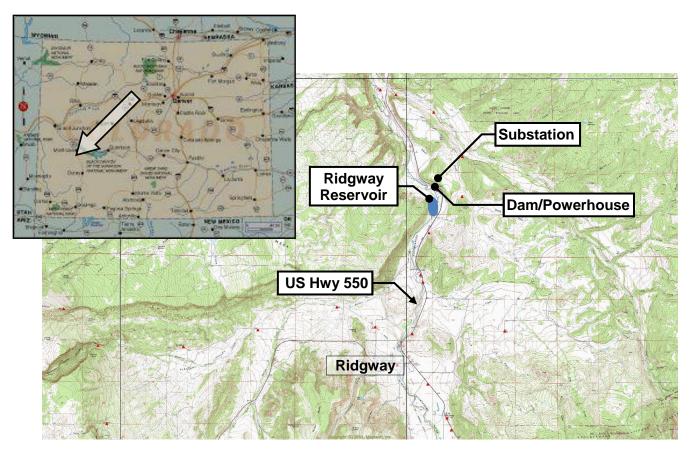
Type of Borrower: Hydroelectric **Avg. Diversion:** 35,000 AF (84,410 AF of

reservoir storage)

Loan Amount: \$13,130,000 (Including 1% fee) Interest Rate: 2.00% Term: 30 years

> Increased from \$9,090,000 in Jan 2013

The Tri-County Water Conservancy District is requesting a CWCB loan for the construction of a 8MW hydroelectric power generating facility at Ridgway Reservoir. The project will be permitted through the "Lease of Power Purchase" process with the Bureau of Reclamation, allowing the incorporation of a hydropower facility into the existing outlet works of Ridgway Dam. The dam, constructed by the Bureau as part of the Dallas Creek Project, began storing waters of the Uncompahgre Basin in 1987. The District projects that the facility will produce an annual average of 22,600 MWh, which will be sold to the San Miguel Power Association/Tri-State Generation and Transmission and the City of Aspen/Municipal Energy Agency of Nebraska through a Power Purchase Agreement. Construction is scheduled to begin in the spring of 2013 and take approximately 2 years to complete, with energy production expected by summer 2014.



CWCB Water Project Loan Program

Project Data Sheet

Borrower: Twenty Two Road Lateral Company County: Mesa

Project Name: 22 Road Lateral Ditch Replacement Project Type: Ditch Rehabilitation

Drainage Basin: Colorado / District 72 **Water Source:** Colorado River (via GVIC)

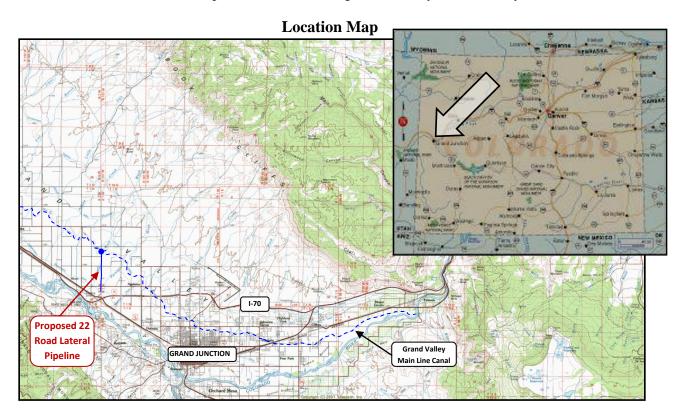
Total Project Cost: \$532,875 **Funding Source:** Construction Fund,

NRCS (\$398,970)

Type of Borrower: Blended **Avg. Annual Diversion:** 1,334 AF

CWCB Loan: \$512,720 (\$517,848 w/ 1% service fee) **Interest Rate:** 2.35% **Term:** 30 years Long Term \$113,750 (\$118,878 w/ 1% service fee)

The Twenty Two Road Lateral Company uses the Twenty Two Road Lateral to deliver water to its members for the purpose of irrigating pastures, residential landscapes and gardens. The Lateral is a weathered concrete lined open channel. Cracks and gaps in the concrete lining have resulted in ever growing maintenance costs while reducing the efficiency of the Lateral. The Company is requesting a CWCB loan in conjunction with a \$398,970 NRCS grant, through the Colorado River Basin Salinity Control Program, to remove 13,000 LF of deteriorated concrete panel-lined channel and install 16,200 LF of plastic irrigation pipe, ranging from 3 to 18 inches in diameter. By piping the Lateral the District will reduce its annual maintenance expenses while increasing the reliability and efficiency of its deliveries.



Water Project Construction Loan Program-Project Data

Borrower: Union Ditch Company (UDC) County: Weld

Project Name: UDC Recharge Project Project Type: Well Augmentation

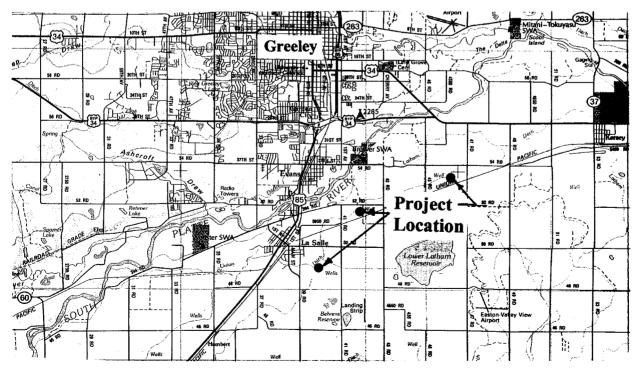
Drainage Basin: South Platte Water Source: South Platte River

Total Project Cost: \$344,000 Funding Sources: CWCB, UDC

Type of Borrower: Agricultural Aver. Delivery: 206 acre-feet (consump. use)

CWCB Construction Fund Loan: \$309,500 Interest Rate: 2.50% Term: 30 years

UDC operates the Union Ditch providing direct flow irrigation water to an area of 5,500-acres east of the Town of LaSalle and south of Greeley. Water is diverted from the South Platte River at a headgate east of the Town of Milliken. UDC operates approximately 15 miles of ditch and typically delivers about 29,000 acre-feet of irrigation water per year. UDC has filed an application for an Augmentation Plan to provide replacement water for 40 junior wells owned by shareholders, formerly serviced by GASP, to replace out-of-priority irrigation well depletions. As part of the Augmentation Plan UDC will need 50 AF of developed recharge storage capacity to offset the depletions. The project involves the development of three recharge structures, with the top priority site, the Mecure #1 Site (20 AF) developed initially in 2004, and the remaining two sites totaling 30 AF developed in 2005. Each pond would be filled by water that is diverted from the Union Ditch. The construction of each site will include pond excavation, flow measurement structures (flumes on feeder canals or meters for pumps), headgate structures for feeder canals, and monitoring and reporting measurement equipment (SCADA). The ponds will be relatively shallow in depth (< 10 feet) and will include an earthen embankment around the perimeter of the pond.



Location Map

CWCB Construction Loan Program PROJECT DATA SHEET

Borrower: Upper Arkansas Water Conservancy District County: Chaffee/Fremont/Custer

Project Name: North Fork Reservoir Rehab/Expansion Drainage Basin: Arkansas River

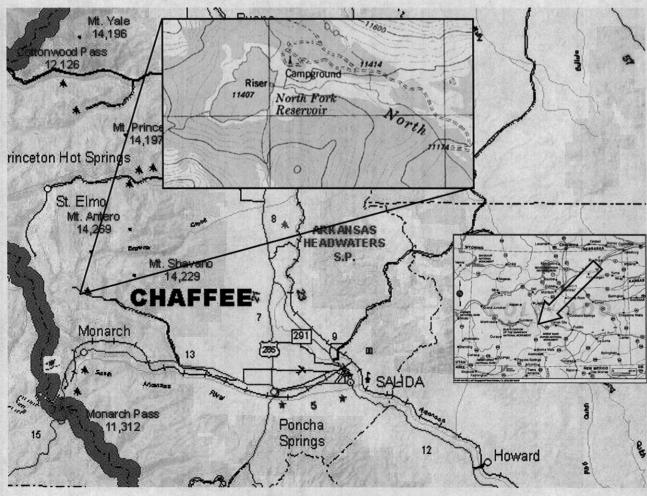
Project Type: Dam and Spillway Modifications Water Source: N. Fork of S. Arkansas

Total Project Cost: \$3,309,850 Funding Sources: CWCB & Company

Loan Amount: \$2,980,000 Current Reservoir Storage: 500 acre-feet

Type of Borrower: Low Municipal/Agricultural Interest Rate: 3.0% Term: 30 years

The Upper Arkansas Water Conservancy District is located in Salida, Colorado, and serves to protect and develop water supplies in Chaffee, Western Fremont and Custer Counties. The District has operated the North Fork Reservoir since 1979 for domestic, municipal, industrial, recreational and augmentation purposes. The reservoir is at elevation 11,400 feet and is located 10 miles from Maysville on the North Fork of the South Arkansas River. The District plans to repair the outlet gate, improve the access for construction, increase the spillway capacity, mitigate seepage along the right abutment, and raise the dam height by 15 feet. This will increase the capacity of the reservoir from 595 AF to 1095 AF. The enlargement will also require the relocation of portions of a campground. The reservoir is located on Forest Service property and currently has a Special Use Permit authorizing the repair work. The enlargement work will require a NEPA study prior to Forest Service permitting.



LOCATION MAP

Projects Not Under Contract

Water Project Construction Loan Program - Project Data

Borrower: SECWCD - Enterprise **County**: Pueblo, Crowley, Otero, Bent, Prowers

Project Name: Arkansas Valley Conduit Project Type: Water Supply Pipeline

Drainage Basin: Arkansas — Fry-Ark Project

Total Project Cost: \$300,000,000 **Funding Sources:** CWCB, Federal

Type of Borrower: Municipal/Low **Aver. Delivery:** 6,555 AF (2005 demand)

CWCB Construction Fund Loan: \$60,600,000 Interest Rate: 3.25% Term: 30 years

(incl. 1% loan fee)

The Arkansas Valley Conduit is designed to bring relatively clean raw water to 41 water providers in the lower Arkansas Valley, who currently either take water from the Arkansas River, and\or pump from shallow and\or deep aquifers. This pumped water has quality problems and requires significant treatment before it meets Clean Drinking Water standards. The conduit will begin at Pueblo Reservoir Dam, where a 30.94 cfs municipal outlet is already in place and reserved for the specific use of the conduit. The conduit will gravity flow approximately 138 miles down the Arkansas River Valley to Lamar. The conduit water will flow by the St. Charles Mesa Water District where it will enter a water filtration plant. As the conduit moves down the valley, spurs will take off the main line to deliver water to local and regional water providers. The conduit will receive its water from the USBR Fryingpan-Arkansas Project. Currently, about 5,779 acre-feet of water per year is available for entities East of Pueblo in an average year. Additionally, Return Flows are retained by the District and can be exchanged back up to Pueblo Reservoir for delivery. These Return Flows can provide up to an additional 1,600 acre-feet of water. Storage is available to these entities in Pueblo Reservoir because they are in the SECWCD service area. This storage will help provide water in the years when less than average water is provided by the Fry-Ark Project. The water will be provided strictly for municipal and industrial purposes. Final chlorination or treatment will be left up to each water provider. The conduit is currently planned to be paid 80% (approximately \$240 million) by the federal government.



Location Map

Borrower: Lake Durango Water Authority County: La Plata

Project Name: Source Water Supply Project **Project Type:** Water Rights

Purchase/Infrastructure

Drainage Basin: San Juan / Dolores Water Source: ALP

Total Project Cost: \$3,000,000 **Funding Source:** Construction Fund and

WSRA Statewide Funds

Type of Borrower: Low-income Municipal **Average Delivery:** 309 AF

CWCB Loan: \$2,525,000 (w/ 1% service fee) **Interest Rate:** 4.0% **Term:** 30 years

WSRA Grant: \$500,000

The Lake Durango Water Authority serves 1,435 taps in southwest La Plata County. A safe yield analysis has indicated that the Authority can only supply water to 792 taps in a drought year. This was an issue in the 2002-2003 drought, so the Authority is seeking additional supply and storage to safely serve its customers. The Authority is planning on purchasing 100 AF of A-LP water from the Colorado Water Resources and Power Development Authority, constructing a pump station at Lake Nighthorse, building an access road, and installing a pipeline to bring water from Lake Nighthorse to Lake Durango (where the Authority currently stores the majority of its water).







Water Project Loan Program - Project Data

Borrower: The McDonald Ditch Company County: Rio Grande

and Headgate Replacement Project

Drainage Basin: Rio Grande, District 20 **Water Source:** Rio Grande River

Total Project Cost: \$650,000 (Construction) **Funding Source:** Construction Fund

Engineering provided by NRCS

Type of Borrower: Agricultural **Avg. Annual Diversion:** 5,018 AF

CWCB Loan: \$70,700 (incl. 1% loan fee) **Interest Rate:** 2.50% **Term:** 20 years (reduced from a 2.75% 30-year ag. rate)

The existing diversion structure and ditch headgate, constructed over forty years ago, were poorly designed, are rapidly deteriorating, and present a growing maintenance burden for the Company. The diversion structure was constructed from concrete rubble, dirt, wooden debris, and an old bridge pier. The diversion is inefficient, aging, and functions poorly. The headgate consists of a rusted single slide gate that is set back from the river and uses a section of an old metal fence as a screening device. Sediment and debris are prone to build up around the gate, decreasing its efficiency while increasing maintenance costs. Both the diversion and headgate were highlighted as rehabilitation priorities in a study performed in 2001. The study analyzed the condition of riparian habitats and structures along a 91-mile reach of the Rio Grande from the town of South Fork to Alamosa that triggered a more localized effort known as the Plaza Project. This project provides an environmentally sensitive solution for increasing the efficiency of the ditch with a less maintenance intensive diversion and headgate. Construction is scheduled to begin in November of 2012.

Location Map

PROJECT
SITE
FIVEMILE
ROAD

HWY
285

RIO GRANDE
RIVER

HWY
160

MONTE
VISTA

HWY
285

CWCB Construction Loan Program Project Data Sheet

Borrower: Town of Ridgway County: Ouray

Project

Drainage Basin: Gunnison, District 68 Water Source: Ridgway Ditch

Total Project Cost: \$2,080,843 **Funding Sources:** Construction Fund, WSRA,

DOLA, CO River District

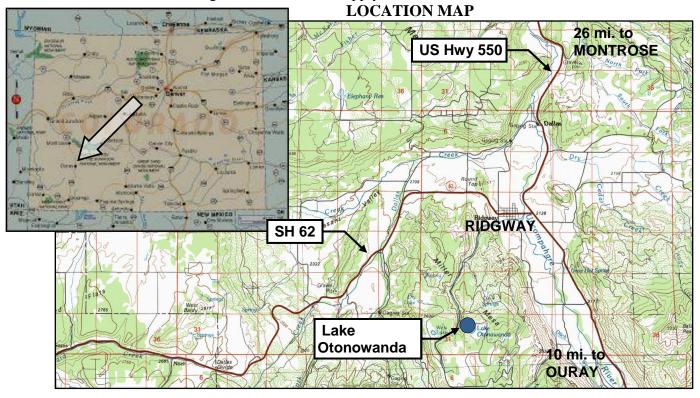
Type of Borrower: middle-income municipal **Avg. Diversion:** 280 AF (363 AF of reservoir

storage)

Loan Amount: \$606,000 (Including 1% fee) **Interest Rate:** 3.0% **Term:** 30 years

WSRA Grant Amounts: \$60,000 Gunnison Basin & \$540,000 Statewide

The Town of Ridgway is requesting a CWCB loan for rehabilitation improvements and enlargement of Lake Otonowanda to ensure a reliable water supply of raw water is available under future drought conditions. Otonowanda is the primary storage facility for the town, responsible for treating and delivering potable water to 695 SFE. Otonowanda, with a current capacity of 109 AF, does not have a functional outlet works; therefore, no way to control reservoir discharge. During 2002, all of the Town's water rights fell out of priority due to extended drought conditions and the Town was dangerously close to running out of water. The improvements to the reservoir, including: replacement of the outlet works, reservoir lining and a 254-AF enlargement, will provide the Town the ability to store more of its adjudicated water rights and a controlled means to release the water, firming the Town's water supply in the event of future call outs.



Borrower: City of Greeley, County: Larimer

Water and Sewer Enterprise

Basin: South Platte **District:** 3 **Water Source:** Cache La Poudre

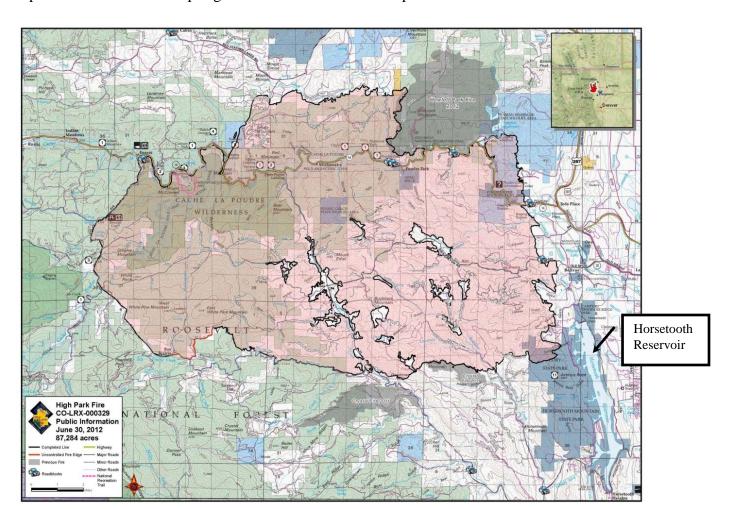
Total Project Cost: \$7,400,000 **Funding Source:** Severance Tax Trust Fund

Perpetual Base Account

Type of Borrower: High-income municipal **Average Annual Diversion:** 9,000 AF

CWCB Loan: \$2,020,000 (w/1% service fee) Interest Rate: 0% Term: 20-years

The City of Greeley is applying for a loan for to protect portions of the Poudre watershed damaged by the High Park Fire that damaged 87,000 acres in the summer of 2012. Through the Burned Area Emergency Response (BAER) report 5,500 acres of non-federal land were identified as needing treatment including aerial application of seeded mulch for soil stabilization; and check structures to catch ash, debris and sediment; and, contour felling to reduce flash flood risk. Because much of the City's municipal water supply diversions are within the burn perimeter, watershed restoration is critical. Efforts began immediately after the fire was contained in July of 2012. These efforts are expected to resume in the spring of 2013 as soon as weather permits.



Borrower: San Luis Valley Water Conservancy District County: Alamosa

fall of 2013.

Project Name: Anaconda Ditch Water Right Acquisition **Project Type:** Water Rights

Drainage Basin / District: Rio Grande / 20 **Water Source:** Rio Grande River

Total Project Cost: \$923,000 **Funding Sources:** Construction Fund

Type of Borrower: Municipal Low Income **Average Delivery:** 386 acre-feet

CWCB Loan: \$839,000 (Including 1% fee) Interest Rate: 2.5% Term: 30 years

The San Luis Valley Water Conservancy District (District) operates an augmentation program servicing portions of Rio Grande, Alamosa, Saguache, Hinsdale and Mineral Counties. The augmentation program was developed to offset river depletions from wells serving residential and commercial uses in the area. The District intends to acquire additional water rights to add to its existing program, including the subject of this loan request, the Anaconda Ditch water rights. The District is purchasing a 58% interest in the ditch providing an estimated 260 acre-feet. The purchase will be finalized once the water rights have been through water court. The decree is expected in the

Agus Sanda Por Legend

Agus Por Legend

Anaconda Ditch

Borrower: Missouri Heights - Mountain Meadows County: Eagle, Garfield

Irrigation Company

Project Name: Irrigation Ditch Lining Project **Project Type:** Ditch Rehabilitation

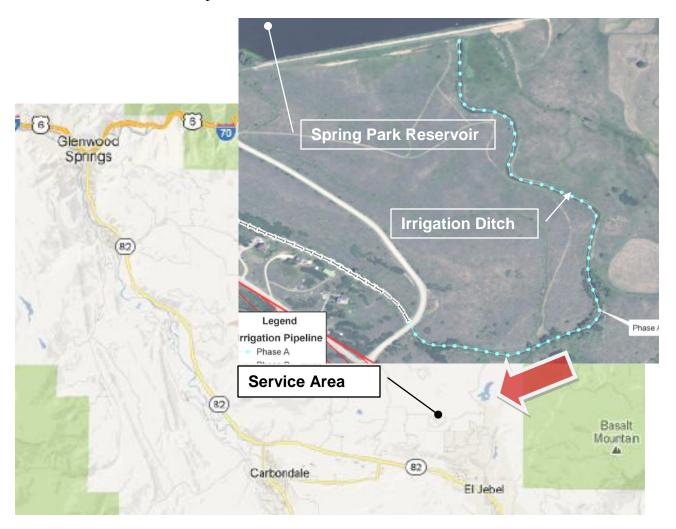
Drainage Basin: Colorado Water Source: Roaring Fork

Total Project Cost: \$550,000 **CWCB Funding Source:** Construction Fund

Type of Borrower: Agricultural/High Income **Average Annual Diversion:** 4,480 AF

CWCB Loan: \$454,500 (w/ 1% service fee) Interest Rate: 2.2% Blended Term: 30yr

Missouri Height Mountain Meadows Irrigation Company provides irrigation water to approximately 1,500 acres of ranch land located 12 miles northeast of Carbondale. The Company worked with the Natural Resources Conservatio service (NRCS) to evaluate losses within its ditch. A one-mile section has been identified as an area of high seepage, with losses estimated at 30%. The NRCS is providing technical design assistance. The Company has applied for grant funding from additional sources. Construction is anticipated to occur in the fall of 2013.



County: Larimer

Project Type: Flood Control

Borrower: Boxelder Basin Regional Stormwater

Authority

Project Name: Larimer-Weld Canal & Boxelder

Creek Crossing Structure

Drainage Basin / District: South Platte / 3 **Water Source:** Boxelder Creek

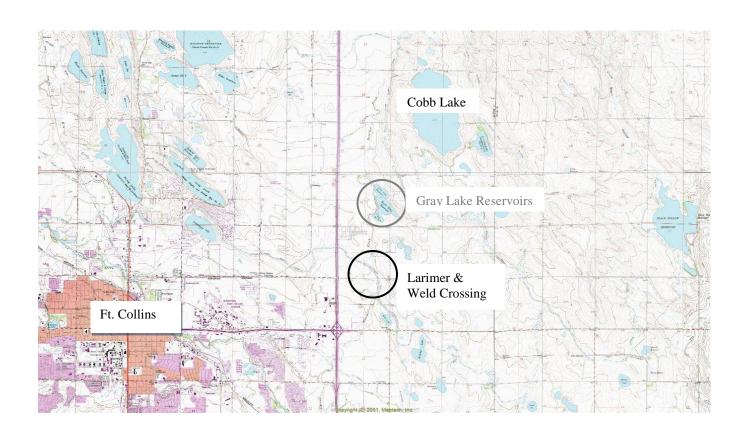
Total Project Cost: \$1,139,000 **Funding Source:** Construction Fund

Type of Borrower: Middle Income Municipal Average Annual Diversion: N/A

CWCB Loan: \$1,010,000 Interest Rate: 2.75% Term: 15-years

(with 1% service fee) (rate reduced from 3.0% for middle income municipal)

The Boxelder Basin Regional Stormwater Authority was formed in 2008, through an IGA between the City of Fort Collins, Larimer County and the Town of Wellington, to facilitate the construction of regional flood control projects to reduce the threat of flooding and remove areas from the FEMA floodplain in the Boxelder Creek basin. The crossing structure will provide conveyance for 100-year flows from Boxelder Creek across the Larimer-Weld Canal in a safe and controlled manner. Currently the Boxelder Creek 100-year flows inundate the Larimer and Weld Canal and cause it to overflow west of I-25 into the Cooper Slough drainage within the City of Fort Collins. The design of the crossing structure calls for the construction of a side-flow spillway. Construction is expected to occur between the fall of 2014 through the spring of 2014. Repayment for the project will come from stormwater service and system development fees collected by the Authority.



Borrower: Boxelder Basin Regional Stormwater County: Larimer

Authority

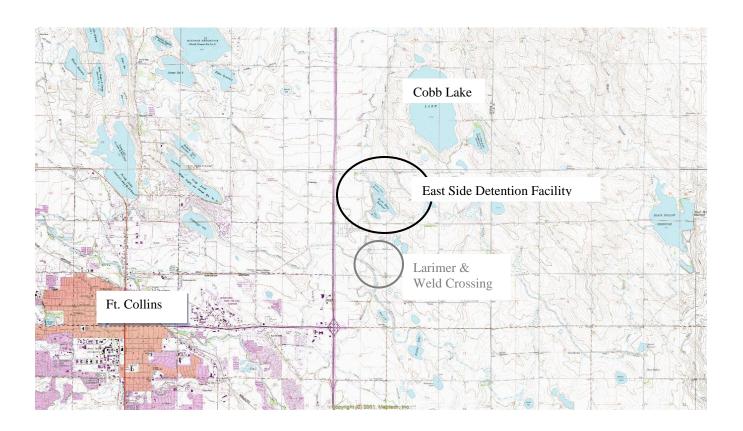
Drainage Basin/ District: South Platte / 3 **Water Source:** Boxelder Creek

Total Project Cost: \$8,761,000 **Funding Source:** Construction Fund

Type of Borrower: Middle Income Municipal Average Annual Diversion: N/A

CWCB Loan: \$7,171,000 **Interest Rate:** 2.75% **Term:** 15-years (with 1% service fee) (Reduced from 3.0% for middle income municipal)

The Boxelder Basin Regional Stormwater Authority was formed in 2008, through an IGA between the City of Fort Collins, Larimer County and the Town of Wellington, to facilitate the construction of regional stormwater improvements to reduce the threat of flooding and remove areas from the FEMA floodplain in the Boxelder Creek basin. The East Side Detention Facility is a key component in the Authority's master plan. The detention facility will provide 1,800 AF of detention storage and will decrease downstream flows from approximately 6,700 cfs to 2,400 cfs. The reduced flow rate will allow 100-year flows to be contained in the current cross-section of Boxelder Creek and will eliminate the flow that occurs in the 100-year flood plain below the proposed detention facility. Construction is expected to take one year beginning in December of 2013. Repayment for the project will come from stormwater service and system development fees collected by the Authority.



Borrower: Grand Mesa Water Conservancy

District

Project Name: Peak Reservoir and Blanche

Park Reservoir Rehabilitation

Drainage Basin/ District: Gunnison / 40 **Water Source:** Surface Creek

Total Project Cost: \$640,000 **Funding Source:** Construction Fund/

WSRA Gunnison Basin Funds

Project Type: Reservoir Rehabilitation

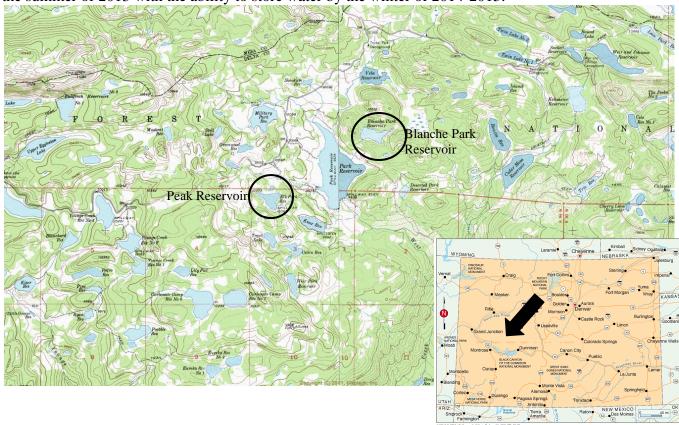
Type of Borrower: Municipal/Agricultural **Average Annual Diversion:** 400 AF

Storage Added: 155 AF

County: Delta

(with 1% Service Fee) (Reduced from 1.8% blended rate)

The Grand Mesa Water Conservancy District owns several reservoirs and a network of ditches to service agricultural users and municipal users including the Town of Orchard City and Cedaredge. It is requesting a loan to rehabilitate Peak Reservoir and Blanche Park. Both reservoirs are located in the Grand Mesa National Forest and have not been used in nearly 50 years. The District has already contributed \$352,500 towards Project costs and has also been awarded \$75,000 in Water Supply Reserve Account (WSRA) Gunnison Basin Roundtable grant funds. Peak Reservoir involves earthwork on the dam and new outlook works. Blanche Park reservoir work will be a complete rebuilding of the dam. Construction is expected to resume in the summer of 2013 with the ability to store water by the winter of 2014-2015.



Borrower: Two Rivers Water and Farming County: Huerfano / Cucharas

Company

Project Name: Arkansas Storage Facility Project Type: New Reservoir Construction

Drainage Basin/ District: Arkansas / 14 **Water Source:** Arkansas River

Total Project Cost: \$12,459,000 **Funding Source:** Construction Fund

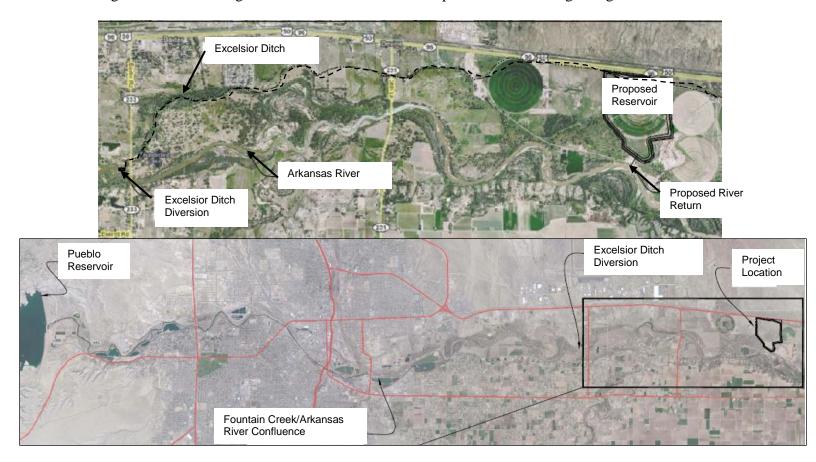
Type of Borrower: Agricultural Average Annual Diversion: AF

Storage Added: 4,110 AF

CWCB Loan: \$9,999,000 **Interest Rate:** 1.25%* **Term:** 10 years

(with 1% Service Fee) (Reduced from 1.75%)

Two Rivers Water and Farming Company currently farms 1,926 acres in Pueblo County and 150 acres in Huerfano County. It is developing a business model that integrates farming and wholesale water distribution through rotational fallowing. Fallowing agreements will be made between Two Rivers and municipalities making surplus irrigation water available for municipal use during droughts, and conversely making excess municipal water available for irrigation when the water supply is available. In order to make this model work, additional water storage is needed. Ultimately, Two Rivers intends to build 25,000 AF of gravel pit storage through a multi-phase project. The first phase will be the development of 4,110 AF of storage located adjacent to the Arkansas River 10 miles east of Pueblo. Design and permitting are scheduled to begin mid-2013 through mid-2014. Construction is expected to follow beginning in mid-2014.



Borrower: Bellyache Ridge Metropolitan District **County**: Eagle

Project Name: Well Replacement Project Project Type: Well Drilling

Drainage Basin/ District: Colorado / 37 **Water Source:** Groundwater

Total Project Cost: \$355,000 **Funding Source:** Construction Fund/

DOLA Energy and Mineral Impact

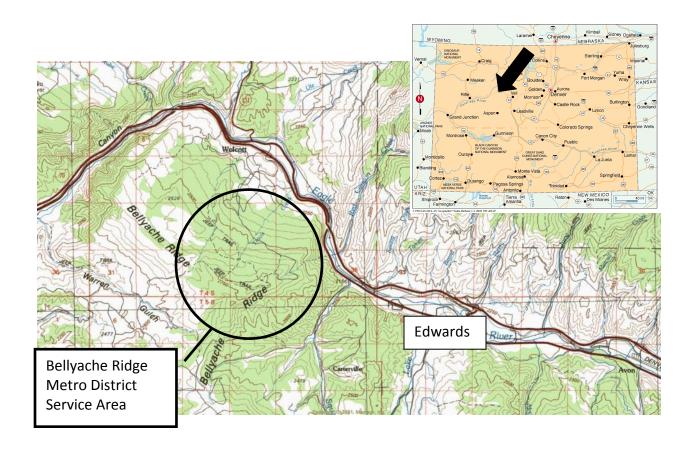
Assistance Fund

Type of Borrower: Municipal (High) **Average Annual Diversion:** 11 AF

CWCB Loan: \$169,175 Interest Rate: 3.0% Term: 30 years

(with 1% Service Fee)

The District is located in Eagle County approximately six miles west of Edwards, Colorado. The District's water system includes three wells that fill two storage tanks. From January through March of 2013, the District had to haul in water because declining well production was not able to keep up with demands. Spring storms recharged the groundwater supply such that the District has not hauled water since March, but unless a new well is drilled hauling water will likely be required in the future. A new replacement well will be drilled as soon as funding is available.



C150357

CWCB Water Project Loan Program Project Data Sheet

County: Boulder

Borrower: Boulder and Left Hand Irrigation

Company

Project Name: Tracy Lateral Pipeline at the

Wederquist "Y"

Drainage Basin/ District: South Platte / 6

Total Project Cost: \$175,000 **Funding Source:** Construction Fund

Type of Borrower: Municipal/Agricultural **Average Annual Diversion:** 2,869

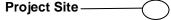
CWCB Loan: \$159,075 (with 1% service fee) **Interest Rate:** 2.35% **Term:** 30-years

(Blended)

Project Type: Ditch Rehabilitation

Water Source: Boulder Creek

The Boulder and Left Hand Irrigation Company is a Mutual Ditch Company and Non-Profit Corporation. The Irrigation Company acquired Boulder and Left Hand Ditch Company in 1921, which had operated the ditch system since 1873. The Irrigation Company serves approximately 2,000 acres of farm land between Boulder, CO and Longmont, CO. The Tracy Lateral Pipeline at the Wederquist "Y" project will improve the hydraulic efficiency of the Tracy Lateral while reducing the operational and maintenance cost of the Irrigation Company by replacing a 1500 ft problem section of the Tracy Lateral with a pipeline. Construction is expected to commence in the fall of 2013.





Borrower: Town of Fowler, Water Enterprise County: Otero

Project Name: Augmentation Pipeline Project **Project Type:** Augmentation

Drainage Basin/ District: Arkansas / 17 **Water Source:** Arkansas River

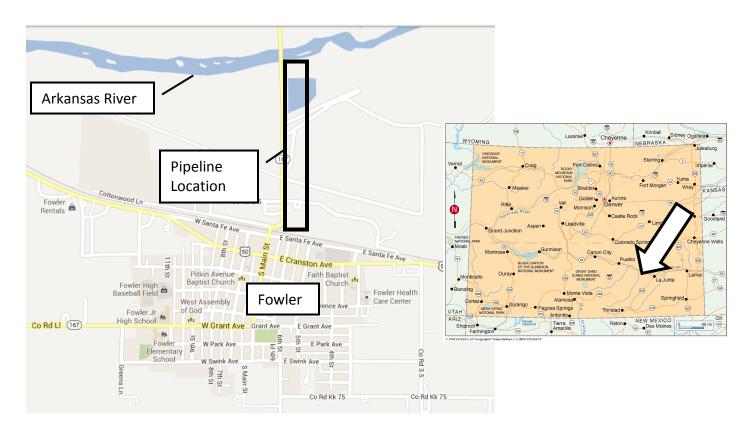
Total Project Cost: \$305,000 **Funding Source:** Construction Fund

Type of Borrower: Municipal (Low) **Average Annual Diversion:** 157 AF

CWCB Loan: \$277,245 Interest Rate: 2.25% Term: 30 years

(with 1% Service Fee)

The Town is located in Otero County along Highway 50, approximately 35 miles east of Pueblo. It has approximately 1,185 residents. The Town's water system service area includes the Town and adjacent areas within unincorporated Otero and Crowley Counties for a total of 709 taps. Per a water court mandate, the Town must separate its augmentation water from its stormwater. The purpose of this project is to construct a diversion box to separate stormwater from augmentation water and to pipe the augmentation water to the Arkansas River. Construction of the Project is scheduled for the fall of 2013 with completion expected to occur by the end of the year.



Borrower: East Mesa Water Company County: Pitkin, Garfield

Project Name: Ditch Piping Project Project Type: Ditch Rehabilitation

Drainage Basin/District: Colorado/38 **Water Source:** Crystal River

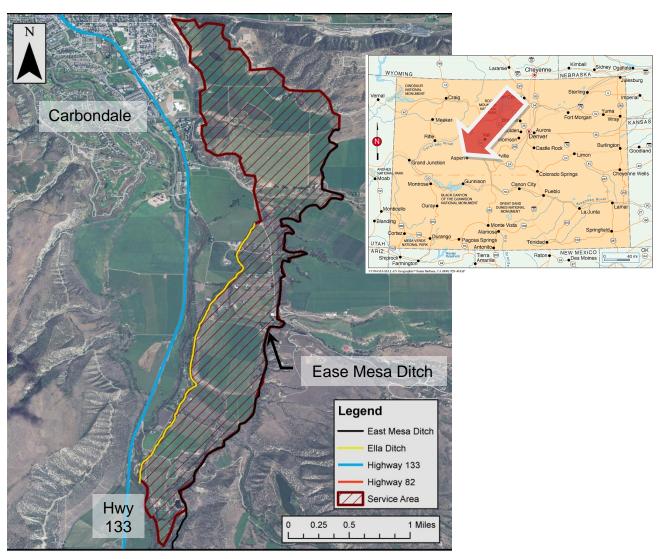
Total Project Cost: \$550,000 **Funding Source:** Construction Fund, NRCS

Type of Borrower: Agricultural **Average Annual Diversion:** 9,669AF

CWCB Loan: \$555,500 (initial loan) Interest Rate: 1.75% Term: 30yr

\$255,500 (long term - post construction loan w/service fee)

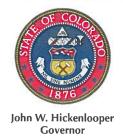
This Company is located in the Crystal River Valley in the western portion of Pitkin County and provides irrigation water diverted out of the Crystal River. The earthen ditch enters a 650 foot long rock tunnel that is collapsing. The Company is working with the NRCS to realign the ditch to avoid the tunnel by putting the ditch into a new 1,450 foot HDPE pipe. The Company serves 12 shareholders and is primarily used to grow hay and forage crops for cattle ranching. The Company is approved for grant funding from NRCS and construction is anticipated to occur in the fall of 2013.



STATE OF COLORADO

OFFICE OF THE GOVERNOR

136 State Capitol Denver, Colorado 80203 Phone (303) 866-2471 Fax (303) 866-2003



August 23 2013

The Honorable Barack H. Obama President of the United States of America The White House 1600 Pennsylvania Avenue Washington D.C., 20500

Dear President Obama:

This letter is submitted by the State of Colorado to request that you designate Mr. James T. Rizzuto of La Junta, Colorado to be the next Federal Representative to the Arkansas River Compact Administration ("Administration").

The Arkansas River Compact is an interstate compact ratified by Congress and adopted as statute by the States of Kansas and Colorado, apportioning the use of the waters of the Arkansas River between the two states. Article VIII, Section A of the Compact states:

To administer the provisions of this compact there is hereby created an interstate agency to be known as the Arkansas River Compact Administration herein designated as "the Administration".

Article VIII, Section C of the Compact states in part:

The President of the United States is hereby requested to designate a representative of the United States, and if a representative is so designated he shall be an ex officio member and act as chairman of the Administration without vote.

The Administration's Bylaws provide that the representative of the United States of America shall be the Chairman and shall preside at meetings. His duties shall be such as are usually imposed on such an officer and such as may be assigned to him by the Administration from time to time. Pursuant to the Bylaws, the Federal Representative is an ex-officio, non-voting member

of the Administration's three standing committees. In addition, the Federal Representative helps to coordinate the roles of the several federal agencies which provide important assistance to the Administration, particularly the US Army Corps of Engineers and the US Geological Survey.

Since the Compact was adopted in 1949 the President has designated a Federal Representative. The guidance and leadership provided by the Federal Representative has been extremely helpful to the states over the last sixty years with only brief periods of vacancy. In September 2002 Mr. Robin Jennison of Hays, Kansas was designated as the most recent Federal Representative to the Administration. Both states very much appreciated his service up until the time he offered his resignation to you in May of 2011.

After considering the attributes of previous Federal Representatives the State of Colorado believes Mr. Rizzuto is well qualified to carry on the tradition of leadership and collegiality demonstrated by his predecessors. Mr. Rizzuto has been a respected member of the Colorado General Assembly, a distinguished educator, a successful businessman, and a community leader. His ability to guide diverse groups and lead them to consensus positions is well known. As a lifelong resident of the Arkansas Valley he has been a strong advocate for the rural communities and agricultural producers of the area. A copy of Mr. Rizzuto's resume is attached for your information.

Please have your staff contact Mr. Mike King, Executive Director of the Colorado Department of Natural Resources, if you need any further information about the Arkansas River Compact or my nomination of Mr. Rizzuto.

Sincerely,

John W. Hickenlooper,

Governor of the State of Colorado

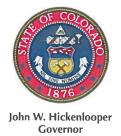
BCC:

Ms. Anne Castle, USDOI Mr. Mike King, DNR

STATE OF COLORADO

OFFICE OF THE GOVERNOR

136 State Capitol Denver, Colorado 80203 Phone (303) 866-2471 Fax (303) 866-2003



August 23, 2013

Anne Castle
Assistant Secretary for Water and Science
Chair, Colorado River Adaptive Management Work Group
U.S. Department of the Interior
1849 C Street NW
Room 6648 MS-6640
Washington, DC 20240

Dear Ms. Castle:

This letter is to request that Mr. John McClow, in his capacity as the State of Colorado Governor's Representative to the Upper Colorado River Commission and the Colorado River Basin States negotiations, be designated as Colorado's representative to the Colorado River Adaptive Management Work Group (AMWG). Mr. McClow will replace Ms. Gimbel who served in this capacity until June 10, 2013. We further request that Mr. Ted Kowalski continue to serve as Colorado's representative to the Technical Work Group and as the designated alternate for Mr. McClow. Mr. McClow can be reached at the following address:

John H. McClow Upper Gunnison River Water Conservancy District 210 West Spencer, Suite B Gunnison, CO 81230

Phone: (970)-641-6065 Fax: (970)-641-1162

Email: jmcclow@ugrwcd.org

Colorado appreciates the work of the AMWG and the benefits it affords to water users in Colorado and throughout the Upper Colorado River Basin.

Sincerely,

John W. Hickenlooper

Governor

cc: James Eklund, Director, Colorado Water Conservation Board

AMWG members

Larry Walkoviak, USBR

Colorado River Basin Water Supply and Demand Study Next Steps

M&I Conservation and Reuse Workgroup

SCOPE OF WORK - PHASE 1

- **Task 1:** Review Basin Study to understand data and assumptions for demand, M&I conservation, and reuse (07/09/2013 webinar led by USBR)
- Task 2: a) Discuss Next Steps process, workgroup objectives, roles, ground rules
 - b) Discuss draft scope of work, schedule (08/14/2013 in person meeting San Diego)
- Task 3: Quantify conservation and reuse savings to date within the Study Area
 - a) Historical savings data from 1980 forward to be obtained from existing reports, studies, planning documents and other readily available information
 - b) Data collection to focus on major metropolitan areas and cities outside metropolitan areas with 2010 population over 100,000; data for smaller cities will be incorporated as available
 - c) Data to be reported by region
 - Regions: Arizona, Nevada, Colorado, Utah, Southern California, New Mexico, Wyoming (may be reported with Colorado)
 - 2. Data to be aggregated by major metropolitan area, watershed or planning area, etc. as determined most appropriate by the region
 - 3. Where available, savings data to be reported by source of savings (e.g., outdoor landscaping, CII, residential indoor, water loss, self-supplied industrial)
 - 4. Design templates for consistency of data
 - d) Estimate investments made in water use efficiency and reuse
 - e) Verify assumptions for water use efficiency and reuse in Study
- Task 4: a) Provide supplemental qualitative and quantitative performance information on successful conservation and reuse programs that have been implemented within the Study Area and have potential to be expanded into other areas within Study Area
 - Provide list of reports documenting successful conservation and reuse programs that have been implemented outside the Study Area and may have potential for implementation within Study Area
- Task 5: Provide information on projected future water savings
 - a) Quantitative data from existing and planned programs identified in current planning documents

- b) Evaluate future reuse opportunities, yield and costs in Technical Report F, Section 5.3
- Evaluate future conservation opportunities, yield and costs in Technical Report F,
 Section 5.6
- **Task 6:** Report on assessments of the impact of historical and future water savings on Colorado River demands
- Task 7: Identify Phase 2 activities, including any feasible and appropriate action steps

Primary Study documents:

- Technical Report C and appendices Water Demand Assessment
- Technical Report F and appendices Development of Options and Strategies
 - o Section 5.3 Reuse
 - o Section 5.6 Municipal and Industrial Water Conservation

Deliverables and Schedule

- Draft report addressing Tasks 3 and 4 (by December 2013)
- Draft report addressing Tasks 5 and 6 (by March 2014)
- Final workgroup report (by June 2014)

Coordination Team 9/3/2013

Name Brice Hallis	Group	Affiliation
Driico Hallin		
pluce udillii	AZ	Salt River Project
Chuck Cullom	AZ	Central Arizona Project (CAP)
Tom Buschatzke	AZ	Arizona Deparment of Water Resources (ADWR)
Bill Hasencamp	CA	Metropolitan Water District of Southern California (MWD)
Ed Smith	CA	Palo Verde Irrigation District (PVID)
Kevin Kelley	CA	Imperial Irrigation District (IID)
Tanya Trujillo	CA	Colorado River Board of California (CRB of CA)
Angela Rashid	CA - Alternate	Colorado River Board of California (CRB of CA)
Jan Matusak	CA - Alternate	The Metropolitan Water District of Southern California (MWD)
Bennet Raley	CO	Front Range Water Council
Dave Kanzer	CO	Colorado River Water Conservation District
Erin Wilson	CO	Colorado Water Users
Ted Kowalski	CO	Colorado Water Conservation Board (CWCB)
David Lytle	Fed	US Geological Survey
Rob Billerbeck	Fed	National Park Service (NPS)
TBD	Fed	Western Area Power Administration
Todd Brindle	Fed - Alternate	National Park Service (NPS)
Carly Jerla	Fed - Chair	Bureau of Reclamation (Reclamation)
Kaylee Nelson	Fed - Support	Bureau of Reclamation
Pam Adams	Fed - Support	Bureau of Reclamation
Jennifer Pitt	NGO	Environmental Defense Fund (EDF)
Peter Culp	NGO	Squire, Sanders & Dempsey LLP
Taylor Hawes	NGO	The Nature Conservancy (TNC)
Kevin Flanigan	NM	New Mexico Interstate Stream Commission
Colby Pellegrino	NV	Southern Nevada Water Authority (SNWA)
Jayne Harkins	NV	Colorado River Commission of Nevada (CRC of NV)
Kay Brothers	NV - Chair	Southern Nevada Water Authority (SNWA)
Chuck Lawler	Tribe	10 Tribes Partnership - Southern Ute Indian Tribe
Darryl Vigil	Tribe	10 Tribes Partnership - Jicarilla Apache Nation

ATTACHMENT 6

Don Ostler	UCRC	Upper Colorado River Commission (UCRC)
Robert King	UT	Utah Division of Water Resources
John Shields	WY	Wyoming State Engineer's Office



GOVERNORS

Janice K. Brewer, AZ Jerry Brown, CA John Hickenlooper, CO Brian Sandoval, NV Susana Martinez, NM Gary R. Herbert, UT Matthew H. Mead, WY

FORUM MEMBERS

Arizona

Thomas Buschatzke Larry R. Dozier Linda Taunt

California

Pete Silva Gerald R. Zimmerman

Colorado

James Eklund Steven H. Gunderson David W. Robbins

Nevada

Leo M. Drozdoff John J. Entsminger McClain Peterson

New Mexico

Estevan López Scott A. Verhines

Utah

Gawain Snow Dennis J. Strong John Whitehead

Wyoming

Dan S. Budd Patrick T. Tyrrell John F. Wagner

EXECUTIVE DIRECTOR Don A. Barnett

106 West 500 South, Ste. 101 Bountiful, UT 84010 (801) 292-4663 dbarnett@barnettwater.com www.coloradoriversalinity.org

MEMORANDUM 2013-53

TO: Forum Members

FROM: Don A. Barnett, Executive Director

SUBJECT: Forum Membership - Appointment of James Eklund to

Replace Jennifer Gimbel as Colorado Forum and Advisory

Council Member

DATE: July 23, 2013

At the Forum meetings in Grand Junction, it was with some sadness that we discussed Jennifer Gimbel's move from state government, and now ultimately on to Interior in Washington, DC. We will miss Jennifer, but wish her the best in her future endeavors and are glad to know that we will have a friend in Washington.

We now welcome Mr. James Eklund, the new Director of the Colorado Water Conservation Board, as a new Colorado member to the Colorado River Basin Salinity Control Forum and the Colorado River Basin Salinity Control Advisory Council. Attached hereto is a copy of the appointment letter from Governor Hickenlooper. Many of you already know James from his involvement in Colorado River matters. A biographical sketch is attached, and below is his contact information.

James Eklund Director, Colorado Water Conservation Board 1313 Sherman Street, Room 723 Denver, CO 80203

303-866-3441

james.eklund@state.co.us

We warmly welcome James to the Forum and Advisory Council and look forward to working with him in the future.

attachments

cc: Work Group, Federal Salinity Coordinators

STATE OF COLORADO

OFFICE OF THE GOVERNOR

136 State Capitol Denver, Colorado 80203 Phone (303) 866-2471 Fax (303) 866-2003



July 13, 2013

Michael L. Connor Commissioner of Reclamation U.S. Department of the Interior 1849 C Street, N.W. Washington, D.C. 20240 Don Barnett, Executive Director Colorado River Basin Salinity Control Forum 106 West 500 South, Suite 101 Bountiful, UT 84010 Larry Dozier, Chairman Colorado River Basin Salinity Control Forum 106 West 500 South, Suite 101 Bountiful, UT 84010

Commissioner Connor, Director Barnett, Chairman Dozier:

This letter is to inform you that I hereby appoint Mr. James Eklund, Director of the Colorado Water Conservation Board, to the Colorado River Basin Salinity Control Forum and to the Colorado River Basin Salinity Control Advisory Council. Mr. Eklund is to assume the seat previously held by Ms. Jennifer Gimbel.

Mr. Eklund will join Mr. Steven H. Gunderson, Director of the Colorado Water Quality Control Division, and Mr. David Robbins, Colorado's citizen representative, who currently serve on both the Advisory Council and Forum, completing Colorado's delegation. Contact information for each of these individuals is enclosed.

Colorado greatly appreciates the significant water quality benefits that the Salinity Control Program provides to the Colorado River Basin, as well as the comity fostered by the cooperative multi-state and federal effort.

Sincerely,

John W. Hickenlooper

Governor

STATE OF COLORADO MEMBERS OF COLOARDO RIVER BASIN SALINITY CONTROL FORUM AND

COLORADO RIVER BASIN SALINITY CONTROL ADVISORY COUNCIL UPDATED JULY 2013

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Colorado River Basin State Representatives of Arizona, California, Colorado, Nevada, New Mexico, Utah, Wyoming, and the Upper Colorado River Commission

August 26, 2013

Via E-Mail Anne Castle@ios.doi.gov

The Honorable Anne J. Castle Assistant Secretary for Water and Science U.S. Department of the Interior Office of the Secretary 1849 C. Street, NW, MS-6640 Washington, D.C. 20240

Re: Comments Following the Glen Canyon Dam Long-Term Experimental and Management Plan Environmental Impact Statement Stakeholder Workshop Held August 5-7, 2013, in Flagstaff, Arizona

Dear Assistant Secretary Castle:

Representatives from a majority of the seven Colorado River Basin States and the Upper Colorado River Commission (collectively referred to as the "Basin States") participated in the structured-decision analysis workshop for the Glen Canyon Dam Long-Term Experimental and Management Plan (LTEMP) Environmental Impact Statement (EIS) hosted by the Department of Interior (DOI) on August 5-7, 2013. This letter provides comments regarding the structured-decision analysis process, and the development and use of resource goals, performance metrics, and quantitative models. We have previously submitted scoping comments relating to the LTEMP EIS (January 31, 2012) and the resource goals, performance metrics, and the structured-decision analysis process (April 15, 2013) and are looking forward to our continued technical discussions with DOI on the issues raised in those letters.

The Basin States acknowledge DOI's efforts to prepare for and host the structured-decision analysis stakeholder workshop. Although we gained experience from the workshop exercise, the Basin States still have significant concerns about how the structured-decision analysis process has been developed, how it will be refined, and how the results will be used in connection with the LTEMP EIS. The Basin States appreciate that the outcomes of the structured-decision analysis process are just a few of the many factors the Secretary will consider in connection with the LTEMP EIS. However, the Basin States urge DOI to utilize its limited budget and available time to develop an appropriate effects analysis for the EIS.

August 26, 2013 Page 2

The Honorable Anne J. Castle Assistant Secretary for Water and Science U.S. Department of the Interior

DOI announced at the Glen Canyon Dam Adaptive Management Work Group on August 9, 2013 that it plans to issue a draft LTEMP EIS by next spring. If DOI decides to continue pursuing a structured decision-analysis process, DOI should be willing to significantly extend the EIS completion timeline and address our concerns about the process. We offer the following initial suggestions and comments based on the feedback received from the Basin State representatives who participated in the workshop:

- 1. The Basin States continue to assert that a mutually understood sideboard is that the LTEMP EIS should not result in an operational scenario that would modify annual deliveries. All alternatives must be fully consistent with and subject to the "Law of the River," including the water delivery requirements described and contemplated in the 2007 Colorado River Interim Guidelines for Lower Basin Shortages and Coordinated Operations for Lake Powell and Lake Mead (2007 Interim Guidelines). Further discussions regarding how DOI will model the water delivery requirements in the EIS are needed. We are also concerned that DOI has implemented the water delivery resource goal as a performance metric. When utilized in the structured-decision making process, the water delivery resource goal appears to be a tradeoff with other resource goals. Since DOI has stated the 2007 Interim Guidelines will not be modified, the water delivery resource goal must be used as a pre-screening metric rather than a performance metric.
- 2. Based on the results of the workshop, it is evident that accurately defining resource goals and establishing performance metrics is particularly challenging in the complex Colorado River system, where the resource goals can contradict each other. The proposition of providing mathematical expressions to unquantifiable factors is not a reliable or practical method in such a complex system.
- 3. The natural processes metric uses different baseline assumptions (post-dam versus pre-dam) for comparing alternatives. The process cannot provide meaningful input in an equitable manner when there are different assumptions as to the baseline upon which impacts are compared. We remain concerned that use of the natural processes resource goal is not appropriate. The LTEMP EIS is focusing on a plan for operating the dam; therefore, the structured-decision analysis process inappropriately uses a step that favors returning the ecosystem to a predam condition.
- 4. To address concerns regarding the use of the quantitative models, at a minimum, DOI should have the newly developed models documented and peer reviewed. DOI must make the process transparent throughout this effort and should provide ample time for the Basin States and others to participate in the review process.

The Basin States have additional technical comments on the resource goals, performance metrics, and quantitative models that we are willing to provide through our technical teams. As has been our consistent position, we are interested in working with DOI on a strategy and timeline for the completion of a successful LTEMP EIS, and we appreciate the opportunity to provide these comments.

August 26, 2013 Page 3

The Honorable Anne J. Castle Assistant Secretary for Water and Science U.S. Department of the Interior

Sincerely,

Director

Arizona Department of Water Resources

Dana B. Fisher, Jr.

Chairman

Colorado River Board of California

John H. McClow

Colorado Commissioner

Upper Colorado River Commission

Patricia Mulrov General Manager

Southern Nevada Water Authority

Jayne Harkin

Executive Director

Colorado River Commission of Nevada

Estevan R. López

Director

New Mexico Interstate Stream

Commission

Dennis J. Strong

Director

Utah Division of Water Resources

Utah Interstate Stream Commissioner

Patrick T. Tyrrell

State Engineer

State of Wyoming

Don A. Ostler

Executive Director and Secretary Upper Colorado River Commission

Mr. Glen W. Knowles, Chief, Adaptive Management Group, Bureau of cc:

Reclamation, Upper Colorado Region

Mr. Rob Billerbeck, Colorado River Coordinator, National Park Service

Dr. Kirk E. LaGory, Senior Program Manager, Argonne National Laboratory

John W. Hickenlooper Governor



136 State Capitol Denver, Colorado 80203

> Tel 303-866-2471 Fax 303-866-2003

August 19, 2013

Tony Willardson
Executive Director
Western States Water Council Office
5296 Commerce Drive, Ste 202
Murray, UT 84107

Dear Mr. Willardson:

With the retirement of Paul Frohardt, and the appointment of James Eklund as the new director of the Water Conservation Board, please be advised that I am appointing the following individuals to represent the State of Colorado on the Council:

Trisha Lea Oeth of Boulder, Colorado Administrator, Water Quality Control Commission Water and Wastewater Operators Certification Board Colorado Department of Public Health and Environment

James L. Eklund of Denver, Colorado Executive Director Colorado Water Conservation Board Colorado Department of Natural Resources

Resumes and contact information are attached for Ms. Oeth and Mr. Eklund. I would appreciate your ensuring that other council members are aware of these appointments.

Alternate members, Steve Gunderson, Hal Simpson and John Stulp will continue to serve.

Thank you.

Sincerely,

John W. Hickenlooper

Governor

Colorado Water Conservation Board

Construction Fund, Special Funds and Severance Tax Trust Fund Accounts Non-Reimbursable Investments Status Report Fiscal Year 2012-2013

Construction Fund – Non-Reimbursable Investments

The Colorado Water Conservation Board (CWCB) Non-Reimbursable Investments Status Report has two sections. This section includes the non-reimbursable investment projects from the Construction Fund, Special Funds and Severance Tax Accounts. The following table summarizes the non-reimbursable investment projects in progress from July 2012 thru June 2013. This table provides the beginning and ending balances for funds available for each project during the fiscal year including amounts disbursed. Following this table, are project summaries provided by each project manager that detail the implementation and status of each project. Following this section is the Severance Tax Trust Fund Operational Account Grant Program status for the same period.

<u>No.</u>	Manager	<u>Project</u>	July 1 <u>Balance</u>	Amount <u>Disbursed</u>	June 30 Balance
1	Bassi	Acquisitions of Water for Instream Flow	\$1,000,000	\$0	\$1,000,000
2	Bassi	CWCB Stream Gaging	\$180,550	\$94,545	\$86,005
3	Bassi	Instream Flow Engineering Support Services	\$93,960	\$21,862	\$72,098
4	Bassi	Satellite Monitoring – State Eng Office	\$322,826	\$255,320	\$67,506
5	Bassi	Stream Gauge Fund	\$264,352	\$0	\$264,352
6	Browning	Chatfield Reservoir Reallocation Project	\$1,988,206	\$135,206	\$1,853,000
7	Browning	Chatfield Res Reallocation Implementation	\$5,000,000	\$0	\$5,000,000
8	Browning	Chatfield Reservoir Reallocation Study	\$35,249	\$18,234	\$17,015
9	Browning	Water Adaptation Partnership Program	\$460,000	\$0	\$460,000
10	Browning	Water Conservation Public Aware Research	\$150,000	\$115,201	\$34,799
11	Browning	Water Education Foundation	\$150,000	\$150,000	\$0
12	Feehan	Abandonment List Legal Support	\$300,000	\$164,092	\$135,908
13	Feehan	Animas-La Plata Project Water	\$24,000,000	\$23,899,210	\$100,790
14	Feehan	Rio Grande Cooperative Project	\$5,000,000	\$875,446	\$4,124,554
15	Feehan	Rocky Mountain Fen Demonstration Project	\$100,000	\$0	\$100,000
16	Feehan	Water Resource Info Center & Data Harvest	\$450,000	\$0	\$450,000
17	Houck	Chatfield Channel Improvement	\$160,834	\$0	\$160,834
18	Houck	Colorado Floodplain Map Modernization	\$1,097,761	\$193,790	\$903,971
19	Houck	Fish and Wildlife Resources Fund	\$2,016,212	\$219,246	\$1,796,966
20	Houck	Flood and Drought Response Fund	\$413,771	\$167,876	\$245,895
21	Houck	National Oceanic & Atmospheric Admin	\$154,862	\$154,862	\$0
22	Houck	Watershed Restoration	\$1,139,884	\$394,743	\$745,141
23	Houck	Weather Modification Program	\$578,942	\$437,541	\$141,401
24	Kowalski	Arkansas River Basin DSS	\$500,927	\$10,183	\$490,744
25	Kowalski	Ark River Surface Water Rules Tech & FA	\$27,177	\$0	\$27,177
26	Kowalski	Co River Comp - State Water Right Admin	\$268,091	\$247,591	\$20,500
27	Kowalski	Colorado Flood Decision Support System	\$74,189	\$0	\$74,189
28	Kowalski	Colorado River Augment Project Develop	\$75,000	\$0	\$75,000
29	Kowalski	Colorado River Delta in Mexico Consult	\$128,205	\$0	\$128,205

ATTACHMENT 10

			July 1		June 30
<u>No.</u>	<u>Manager</u>	<u>Project</u>	<u>Balance</u>	<u>Disbursed</u>	<u>Balance</u>
30	Kowalski	Co Water Needs and Alternatives Analysis	\$2,092,480	\$142,479	\$1,950,001
31	Kowalski	Instream Flow Decision Support System	\$64,362	\$6,506	\$57,856
32	Kowalski	Litigation Fund	\$3,467,997	\$678,134	\$2,789,863
33	Kowalski	Lower So Platte Water Mgmt & Storage Site	\$500,000	\$0	\$500,000
34	Kowalski	Project Imaging System	\$138,974	\$19,884	\$119,090
35	Kowalski	Purgatoire River Channel Capacity-Improve	\$25,000	\$0	\$25,000
36	Kowalski	So Platte Groundwater Level Data Collection	\$500,000	\$115,542	\$384,458
37	Kowalski	South Platte River Alluvial Aquifer Study	\$910,900	\$360,514	\$550,386
38	Kowalski	South Platte River Decision Support System	\$1,688,411	\$28,320	\$1,660,091
39	Kowalski	Tamarisk Control Cost-Sharing Program	\$1,193,391	\$145,887	\$1,047,504
40	Kowalski	Water Planning Studies	\$115,593	\$8,320	\$107,273
41	Kowalski	Wild and Scenic Rivers Fund	\$499,822	\$109,088	\$390,734
42	Kowalski	Wild and Scenic Rivers Study	\$11,473	\$0	\$11,473
43	Mitchell	Alt Ag Water Transfer Sustainability Prgm	\$2,256,798	\$585,559	\$1,671,239
44	Mitchell	Climate Change Effects on Co Water Res	\$27,048	\$0	\$27,048
45	Mitchell	Co Drought Mitig & Response Plan Imp	\$77,798	\$33,580	\$44,218
46	Mitchell	Drought Mitigation Planning Technical Asst	\$52,316	\$34,320	\$17,996
47	Mitchell	Water Conservation Data Tracking Project	\$200,000	\$25,515	\$174,485
48	Russell	Closed Basin	\$175,389	<u>\$0</u>	\$175,389
	Total Bala	nces for Non-Reimbursable Investments	\$60,128,750	\$29,848,594	\$30,280,156

Details of the Status of the above Projects are as follows:

1. Acquisitions of Water for Instream Flow

Authorization: HB 08-1346 Water Source: Statewide Streams Project Type: Water Acquisitions Project Manager: Linda Bassi Location: Statewide Beneficiary: Statewide Water Users Sponsor: CWCB

In Fiscal Year 2012-2013, CWCB did not spend any money from this funding source. CWCB and the Colorado Water Trust recently executed a Master Task Order Contract under which the Trust will perform tasks related to the instream flow water acquisition program, including, but not limited to, preliminary evaluation of whether water rights offered for instream flow use will provide benefits to the ISF Program; hydrologic, engineering, and other technical analyses required to change acquired water rights to instream flow use; and economic valuation of water rights. The contract, which is in the state approval process, is for a term of up to 5 years and for an amount not to exceed \$500,000.

2. CWCB Stream Gaging

Authorization: SB 01-157 to HB 06-1313

Water Source: Statewide Streams

Project Type: Stream Gaging Location: Statewide Project Manager: Jeff Baessler Beneficiary: CWCB Staff, and Sponsor: CWCB Statewide Water Users

As the state's water planning agency, CWCB relies upon gages operated by the Division of Water Resources (DWR), United States Geological Survey (USGS) and private entities in order to meet the needs of its mission critical program areas, including Water Supply Planning, Compact Protection, Decision Support System Development, Floodplain Management and Stream and Lake Protection. However, CWCB gaging needs are often different from those of the DWR and USGS. Although many existing gages provide needed data, the DWR's mission is to administer the state's water rights, while the USGS collects data for cooperating entities as well as for long-term scientific record purposes. As a result, stream gages are not always located where CWCB needs them, nor are they necessarily designed to fit CWCB data collection parameters. Implementation of this project enables CWCB to strengthen its cooperative efforts with the DWR and USGS to expand, refurbish, redesign and install new gages as well as develop new cost effective strategies to obtain data that will benefit both CWCB and statewide stakeholder interests.

In Fiscal Year 2012-2013, CWCB funded the following projects:

- USGS Gage ID 09152500: Gunnison River Near Grand Junction, Co gage station operation and
 maintenance (O&M). This gage, which is of critical importance to CWCB programs and other
 stakeholders, was in danger of being temporarily discontinued by USGS. Although this gage is
 typically completely funded by USGS as part of the National Streamflow Information Program,
 federal sequestration of funds would have resulted in a discontinuation of the gage, which has been
 operating continuously since 1916. It is anticipated that NSIP funds will become available in 2014.
- Satellite telemetry and stream gaging equipment was purchased from Campbell Scientific, Sutron, and Rickly Hydrologic to support multiple existing and future gage installations throughout the state.
- Funding was provided to the Roaring Fork Conservancy to assist in the collection of stream flow and meteorological data in the Crystal River Watershed in Division 5.
- Cottonwood Creek below Road 361 near Buena Vista, CO staff gage O&M. CWCB is cooperating with USGS on this staff gage which is used for ISF administration.

3. Instream Flow Engineering and Technical Support Services

Authorization: SB 05-084 to HB 10-1250

Water Source: N/A Project Type: Technical Services

Location: Statewide Managers: Jeff Baessler Sponsor: CWCB Beneficiary: Statewide

Funding is to provide temporary help with technical support for ongoing instream flow (ISF) projects, ISF recommendation investigations and to acquire as-needed engineering services for legal protection of ISF water rights. This fiscal year, a portion of the funding was used for engineering services related to the change of the acquired Breem Ditch water rights on Washington Gulch to ISF use.

4. Satellite Monitoring System – State Engineer's Office

Authorization: HB 93-1273 to SB 12S-002

Water Source: Statewide Streams

Location: Statewide

Managers: Jeff Baessler / Tom Ley

Sponsor: State Engineer's Office

Beneficiary: Statewide Water Users

The Satellite Monitoring System includes funding for maintenance and refurbishment of the State Engineer's Satellite Monitoring System. The State Engineer is continuing to make progress in its replacement of out-dated data collection platforms and satellite telemetry transmission components and refurbishment/renovation of gaging stations. The funds support the continued operation of over 520 stream gages throughout the state.

In addition, CWCB and DWR coordinated to make \$38,000 of carry-over funds, originally authorized for use in Fiscal Year 2012-2013, immediately available for the emergency installation of four new stream gages for monitoring associated with the West Fork Complex Fire.

5. Stream Gage Fund

Authorization: SB 07-122

Water Source: Statewide Streams

Location: Statewide

Project Type: Stream Gaging

Project Manager: Jeff Baessler

Sponsor: CWCB

Beneficiary: Statewide Water Users

CWCB has begun to utilize this funding, in addition to the funds authorized under CWCB's Projects Bills in 2001 through 2006, for the installation of new CWCB gages around the state (see item 2 above). Although no expenditures were made from this fund last year, Staff has identified and is working on scoping out equipment needs and collaborative efforts with USGS and/or DWR on multiple gaging projects throughout the state. In addition, staff continues to work with various stakeholders to identify and plan for future stream gage installations that will aid Board programs with an objective of prioritizing gages that benefit multiple CWCB sections and stakeholders. When possible, matching funds or in-kind services will be requested from participating stakeholders. Funding from item 2 above (CWCB Stream Gaging) and these funds (Stream Gage Fund) will be utilized for these projects with the goal of first depleting funds still available under item 2.

6. Chatfield Reservoir Reallocation Project

Authorization: HB 08-1346
Water Source: South Platte River Project Type: Study

Location: 10 miles South of Denver Project Manager: Tom Browning Sponsor: CWCB, U.S. Army Corps of Engineers Beneficiary: Statewide Water Users

The purpose of this authorized funding is to act as "seed money" for implementation of the Chatfield Reservoir Reallocation Project (Project) in partnership with local water providers. The seed money may assist, to some extent, with finalization of FR/EIS study tasks, but more importantly will assist with the implementation phase of the Project. Implementation, pending Project approval by the federal government, will consist of contracting with the U.S. Army Corps of Engineers for water supply storage space in the reservoir and the completion of recreation modifications and environmental mitigation. This funding has been largely untapped for the time being so that it can be used in the most meaningful and efficient manner when appropriate. The funds are still greatly needed and will be encumbered appropriately for the intended purposes.

7. Chatfield Reservoir Reallocation Project Implementation

Authorization: SB 12S-002
Water Source: South Platte River Project Type: Study

Location: 10 miles South of Denver Project Manager: Tom Browning Sponsor: CWCB, U.S. Army Corps of Engineers Beneficiary: Statewide Water Users

This project provides for the first installment of the Chatfield Orphan Shares. Disbursement of the funds is pending a Federal Record of Decision and a signed water storage agreement with the U. S. Corps of Engineers.

8. Chatfield Reservoir Reallocation Study

Authorization: SB 97-008 to SB 07-122

Water Source: South Platte River

Location: 10 miles South of Denver

Sponsor: CWCB, U.S. Army Corps of Engineers

Project Type: Reservoir Supply Study

Project Manager: Tom Browning

Beneficiary: Colorado Water Users

This project involves a partnership with the U. S. Army Corps of Engineers (Corps) and local water providers to complete a Feasibility Report and Environmental Impact Study (FR/EIS) regarding the reallocation of up to 20,600 acre-feet of existing storages space in Chatfield Reservoir. The reallocation study is investigating several alternatives including impacts, mitigation needs, and costs. The Corps has determined that 20,600 AF of flood control space can be converted to multi-use space with no reduction in downstream flood control benefits.

The current water providers involved in the FR/EIS include the South Metro Water Supply Authority, Centennial W&S District, Town of Castle Rock, Roxborough Metro District, Castle Pines Metro District, Castle Pines North Metro District, Perry Park Country Club, Center of Colorado WCD, Mt. Carbon Metro District, City of Aurora, Central Colorado WCD, Western Mutual Ditch Company, and Denver Botanic Gardens. A large coalition of stakeholders has been assembled to allow for input on all aspects of the proposed reallocation, and affected DNR agencies are working closely together as well.

9. Water Adaptation Partnership Projects

Authorization: SB 09-125

Water Source: N/A Project Type: Planning Location: Statewide Managers: Becky Mitchell/

Ray Alvarado / Michelle Garrison /

Joe Busto

Sponsor: CWCB Beneficiary: Statewide

One of the goals of the Colorado Climate Action Plan is to prepare the state to adapt to unavoidable climate changes. To help meet that goal, CWCB has partnered with multiple state agencies and stakeholders to undertake Water Adaptation Projects to increase understanding of climate change; communicate the information to those who need to plan and implement adaptation strategies and build partnerships that will produce the models and data upon which actions are based. CWCB is working to implement its strategy in the following areas: enhance our climate observation systems with the goal of identifying long-term trends; scrutinize and detect bias in climate change models; fund partnerships to ensure new data is useful at a local planning level; adapt information for use in the Colorado Decision Support System; utilize information to meet federal drought planning requirements; and to improve forecasting and projections.

In FY2013/2014 this fund will also be utilized to update the "Climate Change in Colorado" report with the latest IPCC CMIP 5 data sets. This report will inform both the Colorado Water Plan as well as a statewide Climate Change Vulnerability Assessment that will be spearheaded by the Colorado Energy Office.

10. Water Conservation Public Awareness Research Study

Authorization: SB 07-122

Water Source: N/A Project Type: Research Study
Location: Statewide Project Manager: Tom Browning
Sponsor: CWCB Beneficiary: Statewide Water Users

A comprehensive Statewide Water Conservation Public Awareness Research Study will be conducted to pinpoint critical attitudes and behaviors among Coloradoans and those affected by recommended water efficiency best management practices. A combination of qualitative and quantitative research will be conducted strategically to benchmark statewide attitudes and perceptions about water efficiency. Since attitudes, microclimates, and water supplies vary in Colorado, the research studies will be segmented geographically according to the nine HB 05-1177 roundtable basins around the State. The water awareness strategy will focus on three research target groups for all regions, regulated community, stakeholders, and citizens. The research strategy would include a quantitative and qualitative survey, in-depth interviews, and focus groups.

BBC Research, supported by GBSM and various stakeholders, was selected and is under contract to conduct telephone surveys for this effort.

The study findings may be used as benchmarks for a future Water Conservation Public Awareness and Education Campaign, and as a resource from which to develop the most effective messaging and umbrella brand for the State's potential future water awareness and conservation efforts. Potential statewide marketing objectives include educating individual Coloradoans of the importance of water conservation to their future as residents of the State and to complement and reinforce other local and regional water conservation public-awareness programs and activities; striving to make all Coloradoans aware that their natural water resources are limited and not immune to the consequences of their individual behaviors. Similar research in other states indicates that the more people know about their water the more likely they are to conserve it.

11. Water Education Foundation

Authorization: HB 02-1152

Water Source: N/A Project Type: Education

Location: Denver Project Manager: Tom Browning

Sponsor: Colorado Foundation for Water Education Beneficiary: Statewide

Each year, CWCB staff executes a grant contract with the Colorado Foundation for Water Education (Foundation) to provide funds for the on-going operation of the Foundation. CWCB Board members annually review and accept the Foundation's annual work plan in May. More information is available at www.cfwe.org and www.c

12. Provision of Legal Support and Funding for Litigation Involving the Abandonment List

Authorization: SB 12S-002

Water Source: Statewide Project Type: Legal Support

Location: Statewide Managers: Tim Feehan / Mike Sullivan

Sponsor: Division of Water Resources Beneficiary: Statewide

The State Engineer's Office continues to work with the Attorney General's Office in reviewing and providing necessary engineering support for water right abandonment cases. This effort will continue over the next five years or more. The \$100,000 funding for this effort is sufficient to meet the current litigation need.

13. Purchase of Colorado's Allotment of Animas-La Plata Project Water

Authorization: HB 10-1250

Water Source: Animas River Project Type: Water Purchase

Location: Durango, CO Managers: Tim Feehan / Ted Kowalski Sponsor: CWCB / USBR Beneficiary: State of Colorado

The Purchase Contract between the State of Colorado and the Bureau of Reclamation was fully executed on June 19, 2012. Pursuant to the terms of the Contract, the State made its initial \$12 million payment to the Bureau on June 20, 2012. In April of 2013, the State made an additional payment of approximately \$23,850,000, leaving a remaining principal balance of approximately \$850,000 for the State to purchase its full project water allocation of 10,460 acre feet.

Staff is currently working with BOR to finalize the dollar amount to be credited to the State for the 46 acres parcel donated by the State to BOR to construct the Durango Pumping Plant (DPP). The appraisal process for this parcel to determine value is currently in process and is anticipated to be complete by November 2013. The actual value established for this parcel will be credited towards the State's unpaid principal balance.

14. Rio Grande Cooperative Project

Authorization: SB 12S-002
Water Source: Rio Grande River Project Type: Reservoir Rehabilitation

Location: Rio Grande County

Sponsor: CWCB / SLVID

Project Manager: Tim Feehan
Beneficiary: Rio Grande Water Users

The CWCB 2012 Projects Bill authorized and appropriated a \$5,000,000 grant to the San Luis Irrigation District for the rehabilitation of the Rio Grande Reservoir. The State has executed five contracts towards this effort, involving project design, project management, embankment material processing, federal land exchange, and seepage control. Total funds encumbered to-date is approximately \$4,000,000. The 2012 Projects Bill also authorized \$15,000,000 for additional rehabilitation work at Reservoir Grande Reservoir, to be reviewed by the CWCB Board to determine how much would be disbursed as a grant and how much as a loan. The remaining \$15,000,000 will be presented to the Board at the November 2013 or the January 2014 Board meeting for final review

15. Rocky Mountain Fen Demonstration Project

Authorization: SB 07-122 Water Source: N/A

Water Source: N/A Project Type: Demonstration Project Location: N/A Project Manager: Tim Feehan

Sponsor: Colorado Mountain College Beneficiary: Statewide

City of Aurora, Pueblo Board of Water Works

Funding was awarded to the Colorado Mountain College-Timberline Campus for a demonstration project designed to explore the extent to which the harvest and transplantation of slow-forming organic peat soils, from an area of potential impact to specifically prepared receiver sites, can serve as mitigation of impacts to fens. The funding for the project is dependent on the project sponsor acquiring a 50/50 cost share from other outside sources to match the CWCB funds. To date, no matching funds have been acquired by the project sponsor, and therefore, no Construction Fund monies have been expended on this project. This project will most likely be de-authorized.

16. Water Resource Information Center and Data Harvesting Initiative

Authorization: SB 09-125

Water Source: N/A Project Type: Water Information Location: Statewide Project Manager: Tim Feehan Sponsor: CWCB Beneficiary: Statewide

In 2009, the General Assembly authorized \$550,000 under SB09-125, Section 13, for CWCB to: (1) adopt and implement a standard for sharing/harvesting data among document management systems; (2) integrate the CWCB's and Colorado State University's (CSU) systems using the above standard; (3) join with other interested water entities who want to share their water-related information; and (4) provide funding for furthering CSU's digitization of documents, such as the Delph Carpenter collection.

The accomplishments of the CWCB Water Resource Information Center and Data Harvesting Initiative during Fiscal Year 2012 concentrated on appropriating money to CSU's digitization efforts, which included scanning, indexing and making available (through the CSU Water Resources Archive) papers, maps and slides from the Groundwater Data Collection, the David McComb Big Thompson Flood Collection, and from Delph E. Carpenter and Family, Rollin Q. Tenney, W.D. Farr, Louis G. Carpenter, Everett V. Richardson, Maurice L. Albertson, James R. Meiman, Robert E. Glover, James L. Ogilvie, Maurice L. Albertson, Edwin W. Mogren, Harvey Johnson, and/or the records of the Plumb and Daily Ditch Company, the Iliff and Platte Valley Ditch Company and Wright Water Engineers.

17. Chatfield Channel Improvement

Authorization: SB 79-537 – SB 90-41 Water Source: South Platte River

Water Source: South Platte River Project Type: Flood Control
Location: Downstream of Chatfield Reservoir Managers: Kevin Houck / Joe Busto

Sponsor: CWCB Beneficiary: CWCB – Metro Area

The original 1979 authorization listed was the original state and federal funding left over from the land purchase and construction of the Chatfield Downstream Channel Improvement Project (Project). The Project was to straighten the South Platte River to accommodate up to 5,000 CFS and once constructed, it was turned over to CWCB as the non-federal project sponsor. At the request of Littleton, the area between C470 and Mineral was excluded from the flood control project. This was once known as Littleton Floodplain Park and is now known as South Platte Park and is a great urban naturalist and educational amenity. The next reach is the CWCB/Corps Project that is the South Platte River from Mineral Avenue to Hampden Avenue. Annually the Flood Readiness Branch of the Omaha Corps of Engineers grades the Project. In recent years a South Platte Working group was convened with Englewood, Littleton, Sheridan, Arapahoe County and the Urban drainage and Flood Control District. The focus is to develop a multi-purpose project that includes flood control, recreation, and environmental benefits. Staff and UDFCD are working through design and planning documents and approvals with the U.S. Army Corps of Engineers. If approved and funded the annual O&M Manual from 1990 will need to be updated to accommodate the change in the way the river is managed. Recently one half mile of river in South Platte Park was rechanneled and in the CWCB reach we are planning for a park, trail, and repair and enhancement of two failed boat chutes near Oxford Avenue. About \$18,000 was spent this year on noxious weed removal and \$50,000 towards planning with Merrick and Company formerly McLaughlin White Water through agreements with UDFCD.

18. Colorado Floodplain Map Modernization

Authorization: SB 03-110 to SB 12S-002

Water Source: N/A Project Type: Floodplain Delineation Location: Statewide Project Manager: Thuy Patton Beneficiary: CWCB – Statewide

This program is a federally funded but state-managed floodplain mapping program, with matching funding from state and local governments. Floodplain maps originally prepared as part of the Federal Emergency Management Agency's (FEMA's) National Flood Insurance Program (NFIP) are being updated and revised. The new maps are digital and are prepared in a countywide format. Beginning in Fiscal Year 2004, CWCB worked directly with FEMA and the affected local governments to start the process of updating and revising old Flood Insurance Rate Maps into the new digital format. Counties, which include the county and its incorporated communities, that have been completed or are in progress are: Boulder, Garfield, Pitkin, Fremont, Clear Creek, Pueblo, Weld, Summit, El Paso, Rio Grande, Montrose, Morgan, Prowers, Logan, Chaffee, Prowers, La Plata, Montezuma, Mesa, Delta, Elbert, Fremont, Las Animas, Larimer, Teller, Clear Creek, Park, and Gunnison Counties and the City of Boulder.

Starting in 2009 the program has transitioned to Risk Map, which will incorporate additional products to assist local communities in conveying flood risk hazards within their communities. FEMA floodplain maps will continue to be updated based on a watershed level instead of a countywide level.

The Denver Metropolitan area counties are all managed by the Urban Drainage and Flood Control District with technical and financial assistance from CWCB. All other studies are being managed by CWCB staff with consulting assistance from two engineering teams that were selected and contracted for this work.

The CWCB Map Modernization Fund has been instrumental for leveraging local and state funds to maximize federal grants to the program. Typically the local funding is contributed to CWCB at some point during the project duration. The local contribution is reflected as a donation as listed above. Colorado is seen as a floodplain mapping leader within FEMA Region VIII and within the country as a whole. The remaining balance does not reflect approximately \$597,760 that has been encumbered for projects currently in progress. The encumbered balance was transferred to Fiscal Year 2013 as these are multiple year projects. In addition, many projects have been placed on hold this past year due to new FEMA levee guidance which is scheduled for release at the end of the calendar year.

19. Fish and Wildlife Resources Fund

Authorization: SB 01-157, HB 02-1152

Water Source: Various Project Type: Grant Program

Location: Statewide Managers: Ted Kowalski / Chris Sturm

Sponsor: CWCB Beneficiary: Statewide

In 1987, HB 87-1158 created the Fish and Wildlife Resources Account, also known as the "Mitigation" Account, in the Construction Fund. Procedures for obtaining mitigation grant approvals are found under section 37-60-122.2, CRS. SB 01-157 transferred the account into a special fund. Expenditures from the fund in Fiscal Year 2013 were to the Platte River Recovery Implementation Program. In addition, expenditures were made to the Fountain Creek Diversion Dam Fish Passage Design, sponsored by Colorado Springs Utilities. The design was completed \$11,378 under budget.

20. Flood and Drought Response Fund

Authorization: SB 01-157 to SB 12S-002

Water Source: All Colorado Streams

Project Type:Response to Flood & Drought
Location: Statewide

Managers: Kevin Houck/Taryn Finnessey

Sponsor: CWCB Beneficiary: CWCB - Statewide

The Flood and Drought Response Fund (Fund) provides CWCB with opportunities to participate in flood and drought preparedness, response and recovery activities throughout Colorado. The Fund supports five elements of the program, which are Flood and Drought Forecasting and Preparation, Aerial Photography of Flooded Areas, Flood Documentation and Identification of Specific Hazards, Evaluations and Revisions of Floodplain Designations, and Development of Disaster and Recovery Mitigation Plans.

The Board has previously approved the staff's program mission and guidelines for the administration of the Fund. The program is administrated jointly by the CWCB's Flood Protection Section and the Water Supply Section and is fully operational at this time. In fact, four out of the five program elements were invoked and utilized during Fiscal Year 2013 with successful results. These activities included snowmelt flood preparation activities, long-term weather outlooks for flood and drought purposes, on the ground drought response, post-flood documentation for various flooding events, and floodplain evaluations to assess CWCB designated floodplains for validity. A portion of this work also proved to be valuable for the Colorado Flood Task Force and Water Availability Task Force.

Monies from this account were used for post-wildfire flood mitigation purposes for a number of the large wildfires that occurred in both 2012 and 2013. These include the High Park, Waldo Canyon, Black Forest, Royal Gorge, East Peak, and West Fork Complex Fires. Specific tasks include post-wildfire floodplain identification, identification of mitigation alternatives, flood warning, and public outreach.

It is important to note that a substantial amount of the funds in this account are intentionally held back each year in order to have funding available to respond to a serious flood and drought

disaster. When no disaster occurs, as was the case this fiscal year, a portion of the funds go unspent. It is important to emphasize that this does not mean that the funds are not needed; merely, it is the nature of how unpredictable natural hazards can be and that this fund provides flexibility to respond accordingly. The result is that occasionally significant monies are still remaining at the close of the period in years with low occurrence of flood and drought.

21. National Oceanic and Atmospheric Administration Statewide Precipitation Atlas Update

Authorization: SB 09-125

Water Source: N/A Project Type: Scientific Study
Location: Statewide Project Manager: Kevin Houck
Sponsor: CWCB / NOAA Beneficiary: Statewide Water Users

Funds have been allocated for the purposes of partnering with the National Oceanic and Atmospheric Administration (NOAA) to update design rainfall information for the State of Colorado. Currently effective design rainfall information is over 35 years old, and using information from that age potentially results in overdesigning or underdesigning flood control and water supply facilities. Updates of the Rainfall Atlas will result in more current, proper design of these facilities from this point forward. NOAA is currently updating rainfall information around the country in groups of states. Colorado will be updated with a group of six Midwestern states. This account serves as the non-federal portion of this project. After lengthy contract negotiations, a contract with NOAA was signed on June 24, 2011. The project was completed in 2013 and the project now has a zero balance. Results of this project were presented to the CWCB Board at the May 2013 meeting in Grand Junction.

22. Watershed Restoration

Authorization: HB 06-1313 to SB 12S-002

Water Source: Various Project Type: Watershed Restoration
Location: Statewide Project Manager: Chris Sturm
Sponsor: CWCB Beneficiary: Watershed Interests

The grant funding has been allocated to projects through the CWCB Colorado Watershed Restoration Program January 2009 - 2012 competitive grant cycles. The Lake Fork Gunnison Floodplain/Channel Design is complete, and it is the final project from the 2009 grant cycle. Active projects from the January 2010 grant cycle include South Platte River restoration design below Chatfield and Coal Creek channel stabilization in Crested Butte. Completed projects from the January 2011 grant cycle include channel stabilization on Trail Creek (Lake George) and Kerber Creek (San Luis Valley). Active projects from the 2011 grant cycle include North Massey Draw (Ken Caryl Ranch), Union Creek (Leadville), ditch diversion reconstruction (Relief Ditch) on the Gunnison River (upstream of Delta) and river restoration planning for Lightner Creek (Durango). Active projects from the January 2012 grant cycle include channel/floodplain restoration on Tarryall Creek, channel stabilization on the North Fork Gunnison River (Paonia), Phase II gully stabilization in the Campbell Valley (N. of Fort Collins), fen restoration near Ophir Pass (Silverton), a watershed assessment for the South Fork Arkansas River, and forest road restoration/erosion control in the Coal Creek Basin (Redstone).

Special allocations for the Waldo Canyon and High Park Fire Assessments totaled \$350,000. The Waldo Canyon Assessment is complete.

The dates for the 2013 and subsequent year grant cycles have changed. Grant applications are now due on September 30, 2013. This has created a lag in the program, and staff anticipates a larger than normal grant allocation for FY 2013-2014.

23. Weather Modification Program

Authorization: HB 04-1221 to SB 12S-002

Water Source: N/A Project Type: Cost Share Grants

Location: Denver Manager: Joe Busto Sponsor: CWCB Beneficiary: Statewide

This account houses funding from five states annually and the reporting on this program can be complicated since we partner to provide grants and technical assistance and we work more on a water year basis rather than a state fiscal year basis. New Mexico provided \$25,000, the Lower Basin States NV, CA, and AZ provided \$150,000 and the CWCB had \$175,000 for a total budget of \$350,000. Staff spent funding down from all sources to less than \$2,000. Grants for operations to six target areas, funding to design a less expensive style of remote generator, a radiometer lease for March to track cloud water in Gunnison, assistance with developing target/control reporting for all programs that yielded 1-7% increases estimated as required by new WM Rules, support for the five imported high elevation high seeding rate generators, and a study of snow data and its relevance to two types of seeding at four mountain passes yielded that there is less seeding potential in November and March for silver iodide which should help us refine operations. Also a seeding unit was combined and deployed at the Cedaredge water treatment plant that uses propane seeding until minus 5 Celsius and then uses Silver seeding for colder temperatures in an attempt to modify seeding operations for warming climate and increase the window of opportunity in the months of November, March, and April to have the ability to seed snowy periods of warmer storms in those months. The remake of Colorado equipment and programs has led to interest by the nine states on the Cloud Seeding Council and a tour of operations at the Grand Mesa is scheduled for mid September with CWCB staff and the City of Grand Junction as the local hosts.

24. Arkansas River Basin Decision Support System Feasibility Study and Phase 1 Implementation

Authorization: SB 07-122, HB 11-1274

Water Source: Statewide Streams Project Type: Decision Support System

Location: Statewide Project Manager: Andy Moore Sponsor: CWCB Beneficiary: Statewide Water Users

With \$200,000 authorized in SB 07-122, the feasibility study began in February 2010, and the final report was completed in December 2011. At the July 2011 Board Meeting, the feasibility study results were presented, and the plan for implementation of the ArkDSS was approved by the Board. \$500,000 for implementation of Phase 1 of ArkDSS was authorized in HB 11-1274, and \$250,000 was authorized in SB 12-S002. Work has begun on several aspects of ArkDSS, with coordination with several Roundtable projects and DWR Division 2 work, and a gage was installed on Fountain Creek. Requests for Proposals for more tasks will be released in the near future.

25. Arkansas River Surface Water Rules Technical and Financial Assistance

Authorization: SB 09-125
Water Source: Arkansas River Project Type: Technical Assistance
Location: Arkansas River Basin Project Manager: Steve Miller
Sponsor: CWCB Beneficiary: Local Water Users

This project was authorized to offer technical assistance to entities complying with the State Engineer's Office (SEO) proposed Surface Water Irrigation Efficiency Improvement Rules. The Lower Arkansas Valley Water Conservancy District (LAVWCD) agreed to provide a basinwide compliance plan. In Phase I approximately \$100,000 was used to examine the basic feasibility of a compliance plan. In Phase II for approximately \$125,000 design and submission of the initial compliance plan was accomplished. The project is now essentially completed with the remaining grant funds used to assist the LAVWCD in acquiring replacement water supplies to cover sprinkler depletions. Final project accounting and payment is in process and will be completed by September 2013.

26. Colorado River Compact – State Water Right Administration Issues and Options Study

Authorization: HB 08-1346

Water Source: Colorado River Project Type: Study

Location: Colorado River Basin Project Manager: Michelle Garrison

Sponsor: CWCB Beneficiary: Colorado River Compact

This project is a technical study to: 1) investigate and understand the amounts, locations and types of use of Colorado River and tributary water within the State in the Colorado River Basin in order to more fully understand the State's use of its allocations under the Colorado River Compact and Upper Colorado River Basin Compact, 2) develop and evaluate options to avoid, minimize or delay any curtailment of uses of Colorado River and tributary water in Colorado to meet the Upper Division States' non-depletion obligation under Art. III of the Colorado River Compact, and 3) identify, develop and evaluate approaches to curtailing water uses in Colorado, if curtailments are ever legally required to comply with Art. III of the Colorado River Compact; and to develop approaches to implement those curtailments in a way that will allow the maximum use of Colorado's allocations under the Colorado River Compact and Upper Colorado River Basin Compact and do so as equitably as possible.

Michelle Garrison, CWCB, and Mike Sullivan, Deputy State Engineer, serve as co-leads for the project along with Karen Kwon and Shanti Rosset O'Donovan, Attorney General's Office.

The initial data gathering and analysis is nearly complete. Current work is focused on exploring options for ensuring future compact compliance.

27. Colorado Flood Decision Support System

Authorization: SB 07-122 to HB 08-1346

Water Source: Statewide Streams

Location: Statewide

Managers: Ray Alvarado/Kevin Houck
Sponsor: CWCB

Project Type: Decision Support System
Managers: Ray Alvarado/Kevin Houck
Beneficiary: Statewide Water Users

The work on the FloodDSS was completed in 2011 and the website went public in May 2011. The remaining funds will be used to enhance or support this website if needed.

28. Colorado River Augmentation Project Development

Authorization: HB 08-1346
Water Source: Colorado River Project Type: Study

Location: Colorado River Basin

Sponsor: CWCB/ Seven Basin States

Project Manager: Ted Kowalski

Beneficiary: Colorado River Compact

The seven Colorado River Basin States (States) have been investigating potential ways to augment and increase the water supply of the Colorado River for several years. In January 2010, the Bureau of Reclamation awarded the States a \$1 million grant through the Basin Study Program, under the auspices of the Water Smart Program. The States provided a \$1 million match under that application. This study's focus was on identifying the current and projected water supply and demand throughout the entire Colorado River Basin and adjacent areas of the seven States that receive Colorado River water up to the year 2060. The general focus of the Study included a comprehensive review, evaluation and characterization of current and long-term water supply and demands, and identification and quantification of future augmentation needs and recommended options to address these needs. Both consumptive and non-consumptive uses associated with Colorado River water were examined. A review and analysis of the known and potential effects of drought, and climate change on the Colorado River and their implications on current and future water supplies and associated uses in the Basin were completed. Strategies were developed and refined as needed to move forward on any needed augmentation project for the Basin. The estimated total cost of the Study originally was between \$2 and \$3 million depending on the final scope, but the total final cost was closer to \$5 million. The seven basin states and the U.S Bureau of Reclamation (Reclamation) shared the costs of the study. This work began in February 2010, and continued through the end of 2012. Colorado has spent \$75,000 and the remaining funds will be disbursed, as needed, within the next year as we commence with implementation phases.

29. Colorado River Delta in Mexico Consultation

Authorization: HB 02-1152, HB 08-1346 Water Source: Colorado River and Tributaries Location: Seven Colorado River Basin States

and the Republic of Mexico

Sponsor: CWCB

Project Type: Compact Consultation Project Manager: Ted Kowalski

Beneficiary: State of Colorado, Colorado River Basin States, and the Republic of

Mexico

These funds were initially authorized for the CWCB staff and Colorado's Upper Colorado River Compact Commissioner to participate in the investigation of issues pursuant to Minute 306 of the 1944 Treaty between the United States and Mexico Concerning the Utilization of Waters of the Colorado and Tijuana Rivers and of the Rio Grande to assure that such investigations and any solutions that might be offered to comply with Minute 306 do not interfere with or otherwise jeopardize the terms of the Colorado River and Upper Colorado River Compacts. In addition, these funds were authorized to support the work between the United States and Mexico, who initiated a bi-national conversation about opportunities for bi-national cooperation on water projects that will have bi-national benefits. This effort resulted in the adoption of Minutes 316, 317, 318, and 319 over the last several years. These funds are being used for assistance associated with this binational process, and for travel and other incidental costs associated with implementation of this work.

30. Colorado Water Needs and Alternatives Analysis (Colorado River Water Availability Study)

Authorization: SB 07-122 to SB 12S-002

Water Source: Colorado River and its Tributaries Project Type: Water Availability Analysis

Location: Statewide Project Manager: Ray Alvarado
Sponsor: CWCB Beneficiary: Statewide Water Users

Since the completion of Phase 1 of the study the Board approved the allocation of an additional \$2 million for the next phase of the study. CWCB staff is working with the Basin Roundtables to integrate the CRWAS into their basin implementation plans. One aspect of the second phase of CRWAS is the updating of alternative hydrology due to climate changes. A \$150,000 contract has been awarded to update the alternative hydrology with the new global climate modeling, CIMP5.

31. Instream Flow Decision Support System

Authorization: SB 03-110

Water Source: Statewide Streams

Project Type: Decision Support System
Location: Statewide

Managers: Ray Alvarado / Jeff Baessler

Sponsor: CWCB Beneficiary: CWCB Staff, and
Statewide Water Users

Work began in June 2013 on an update to the ISFDSS. A contractor has been hired to update the program to be compatible with current operating systems and GIS software. Work is proceeding on schedule.

32. Litigation Fund

Authorization: HB 95-1155 to HB 11-1274

Water Source: N/A Project Type: Legal Services

Location: Statewide Managers: Ted Kowalski / Steve Miller

Sponsor: CWCB Staff, and

Statewide Water Users

Each year, CWCB staff reports to the Board and the General Assembly about the status of the fund, including all expenditures from the fund. For more information, please refer to the litigation account agenda item, which the Staff reports on each spring. In addition, the Board has authorized additional amounts that are not reflected in the ending balance but will be disbursed in the current fiscal year.

33. Lower South Platte Water Management and Storage Sites Investigation and Sustain Study

Authorization: HB 00-1419, SB 01-157 Water Source: South Platte River

Location: Logan and Sedgwick

Sponsor: CWCB

Project Type: Multi-Use Water Planning Project Manager: Suzanne Sellers Beneficiary: Statewide or Individual Water User Group depending on project

characteristics/operating rules

In the summer of 2000, the Colorado Water Conservation Board (CWCB), acting through the Water Supply Protection Section, completed a Reconnaissance Level Study of Water Management and Storage Sites in the lower South Platte River. The initial results of the study indicated several potential projects, which warranted future investigation and the CWCB authorized funding to conduct a feasibility level study of these "preferred alternative(s)", and if warranted, to complete an engineering design of the selected alternative(s).

The overall purpose of the project is to identify water management and storage options in the lower South Platte River that could facilitate Colorado's management of South Platte flows, including: 1) coordination with ground water recharge projects for in-state beneficial uses, water rights administration and South Platte River Compact administration; and 2) providing benefits for biological species of concern in Colorado and for participation in the Platte River Recovery Implementation Program.

Shortly after CWCB's authorization of the project, staff and management were approached by representatives of the Ground Water Appropriators of the South Platte (GASP), one of the potential beneficiaries of a future project, and were asked to delay the feasibility study because of a pending water right filing. The sensitivity of the water right filing and GASP's desire to implement one of the alternatives identified in the reconnaissance study lead staff and management to conclude that it would be prudent to delay implementation of the feasibility study.

Significant changes to the State Engineers authority to administer ground water diversion (Senate Bill 73) have dramatically changed water management in the South Platte River. While GASP was successful in acquiring land for one of the physical storage sites, they have experienced significant impacts from S.B. 73. As a result, GASP is no longer a viable entity. Former members of GASP and other water management interests have formed the Ovid Reservoir Company, but it is uncertain whether the new company will be able to complete the project. A feasibility study was completed for the reservoir site in December of 2011. The results of this study show that the reservoir is technically feasible and that several potential benefits exist for the project that warrants Colorado being a participant in the development of the project. The location of the reservoir site continues to offer potential advantages to address water user and endangered species issues/needs. Additional study for the reservoir will be required, including groundwater modeling, easement and river access analysis, and conveyance options for delivery to the reservoir.

Staff will continue to coordinate with the CWCB's Board member from the South Platte Basin as to how best to proceed in the use of these funds. Given the complexity of the project, Staff recommends that the current authorization remain in place to allow coordination with the Ovid Reservoir Company for future work associated with the potential reservoir.

34. CWCB – Imaging System Project

Authorization: SB 99-173 to SB 05-084

Water Source: N/A Project Type: Imaging System
Location: Denver Project Manager: Ray Alvarado

Sponsor: CWCB Beneficiary: CWCB

In 1999, the General Assembly authorized \$270,000 under SB99-173, Section 8, for the CWCB's participation in the Department of Natural Resource's Electronic Document Imaging System, which corresponds with the statewide transition to electronic imaging of documents. CWCB's purpose of acquiring an imaging system was (1) to make information easily accessible to staff and the public, and (2) to minimize the amount of office space required to store paper records.

The expenditure associated with the CWCB Imaging System Project during Fiscal Year 2013 concentrated on system operating and maintenance.

35. Purgatoire River Channel Capacity and Improvement Study

Authorization: HB 08-1346

Water Source: Purgatoire River Project Type: Study

Location: Trinidad Dam
Project Manager: Steve Miller
Sponsor: CWCB/US Army Corps of Engineers
Beneficiary: PRWCD Water Users

Purgatoire River WCD (PRWCD)

This project involved two phases with the PRWCD as the lead sponsor. In Phase 1, \$25,000 was used to determine the volume of reservoir flood releases that could be safely passed through the PRWCD service area and to identify remedial actions that could improve channel capacity. It was determined that the channel was not as degraded as originally feared and flows as high as 5,000 cfs could be routed through the district with minimal risk of damages.

Phase 2 funds were initially intended to be used to mitigate serious capacity problems that might be identified in Phase 1. With the minimal flood hazard risk found in Phase 1, it was determined to use the remaining funds for riparian restoration efforts in the modeled reaches of the Purgatoire River which will provide conveyance improvements at lower flows. CWCB entered into an agreement with the PRWCD to assist in channel improvements in the vicinity of the City of Trinidad using the Phase 2 funds. The project, with multiple sponsors and participants, will remove minor channel and streambank obstructions and includes native re-vegetation and improved river corridor access. The District is still pursuing these activities and coordinating with the Corps of Engineers for necessary review and permits. Due to continuing permitting issues these funds were not utilized in FY 2012-2013. If these issues cannot be resolved in FY 2013-2014, the funds will be de-obligated, and the PRWCD will be invited to reapply for a channel enhancement grant through the Board's watershed restoration programs at such time as all necessary environmental clearance has been obtained.

36. South Platte Groundwater Level Data Collection and Analysis

Authorization: SB 12S-002

Water Source: N/A Project Type: Data Collection/Planning

Location: South Platte Basin Project Manager: Andy Moore Sponsor: CWCB Beneficiary: Local Water Users

This is a cooperative effort with the Division of Water Resources in the collection of alluvial water level data in the Sterling and LaSalle/Gilcrest areas. This was in response to reported high groundwater levels in those areas in 2011. Continuous water level monitoring equipment has been installed in 20 observation wells with the results being available online. This is a two year effort with an independent analysis and interpretation of the potential causal relationships, leading to recommendations. The SPDSS alluvial groundwater model will also be extended to include data up to 2012. This data extension work will be contracted out by October 2013.

37. South Platte River Alluvial Aquifer Study

Authorization: HB 12-1278

Water Source: South Platte River Project Type: Study

Location: South Platte Basin Project Manager: Ray Alvarado Sponsor: General Assembly /CWCB/CWI Beneficiary: Local Water Users

In 2012, the Colorado Legislature passed HB 12-1278, which commissions a study of the interaction of the South Platte alluvial aquifer by the Colorado Water Institute at Colorado State University. This is an independent study which will report to the legislature by December 31, 2013.

38. South Platte River Decision Support System

Authorization: SB 99-173 to SB 09-125

Water Source: South Platte River

Location: South Platte Basin

Sponsor: CWCB

Project Type: Decision Support System

Project Manager: Ray Alvarado

Beneficiary: Statewide Water Users

The alluvial groundwater model for the basin was completed with the technical report being available on the CWCB website. The historical calibration of the lower South Platte surface water model identified several issues that are currently being addressed. The St. Vrain, Big Thompson, Boulder Creek and the Denver metro area river basins are currently under contract to start the surface water modeling effort. It is anticipated that this modeling effort will be completed by March 2015.

39. Tamarisk Control Cost-Sharing Program

Authorization: HB 08-1346 to SB 12S-002

Water Source: Various Project Type: Phreatophyte Control
Location: Various Managers: Steve Miller / Chris Sturm
Sponsor: CWCB Beneficiary: Statewide Water Users

This activity combines two distinct \$1 million authorizations from the Construction Fund. HB08-1346 created what is now called the Phase 1 TRO Grant Program. Grants ranging from \$10,000 to \$100,000 were awarded to the entities in the following table in 2009. All but the Ute Mountain Tribe's project have been completed and paid in full. The Ute's will complete their project by December 31, 2013. Any remaining funds from the 2008 authorization have been rolled into the 2012 program described below. Grant recipients have a continuing obligation to provide monitoring and maintenance reports for the next 3 years with the first submission due by December 31, 2013. Staff will be posting the final reports from each project on the Board's website.

		Phase 1 TRO Control Project Gra	ants		
App #	Applicant	Project Name	Grant Amount	Final Payment	Percent Complete
NW2	City of Grand Junction	Watson Island Complex Restoration	\$100,000	\$99,970	100
SE3	Branson-Trinchera Cons. Dist.	Purgatoire River Watershed Riparian Restoration	\$100,000	\$100,000	100
NE4	Yuma County Pest Control Dist.	Republican River Watershed Riparian Restoration	\$100,000	\$99,897	100
SW3	The Nature Conservancy	Dolores Restoration	\$100,000	\$100,000	100
SW1	Ute Mountain Ute Tribe	Ute Mountain Tribe TRO	\$75,000	Est. \$75,000	75
SE4	Sangre de Cristo RC&D	Upper Arkansas Watershed Riparian Restoration	\$75,000	\$54,370	100

NE1	Boulder County Parks & Open Space	Boulder County Collaborative TRO	\$85,000	\$85,000	100
NW1	Delta County Noxious Weed Program	Delta County River Restoration	\$40,000	\$39,960	100
NW3	Western Colorado Conservation Corps	Island Acres TRO	\$10,000	\$10,000	100
NE2	Sedgwick County Cons. Dist.	TRO Removal, Wildlife Approval	\$10,000	\$10,000	100
SW2	Dolores Cons. Dist.	McElmo Creek Tamarisk Removal	\$25,000	\$25,000	100
NE3	Weld County Weed Div.	TRO - Cache La Poudre River	\$30,000	\$30,000	100
SE1	SE Colorado WCD	ARKWIPP Riparian Restoration	\$150,000	\$123,004	100
		Su	btotal cont	rol projects	= \$852,201
		Science & Administration Project	s		
Tamaris	k Coalition	2010 Grand Junction Symposium	\$5,000	\$5,000	100
Tamaris	k Coalition	Reno Research Symposium	\$5,000	\$5,000	100
Tamaris	sk Coalition	Technical services for grant administration	\$25,000	\$25,000	100
Congro					
Sangre	de Cristo RC&D	CSU Feasibility/Monitoring Study	\$25,000	\$24,812	100
	de Cristo RC&D k Coalition	CSU Feasibility/Monitoring Study Salt Wash Monitoring & Demo	\$25,000 \$25,000	\$24,812 \$25,000	100 100
Tamaris CSU We	k Coalition eed Lab				
Tamaris CSU We	k Coalition	Salt Wash Monitoring & Demo Knapweed strategies for reveg areas Arkansas Beetle Monitoring	\$25,000 \$15,000 \$25,000	\$25,000 \$15,707 \$15,000	100 100 100
Tamaris CSU We	k Coalition eed Lab	Salt Wash Monitoring & Demo Knapweed strategies for reveg areas Arkansas Beetle Monitoring Sul	\$25,000 \$15,000 \$25,000 btotal scien	\$25,000 \$15,707 \$15,000 ce projects	100 100

Senate Bill 12S-002 authorized an additional \$1 million grant program, the Invasive Phreatophyte Control Program, which is now managed by the Watershed and Flood Protection Section. In January 2013, seven applications to the Invasive Phreatophyte Control Program (IPCP) were awarded funding totaling \$499,743. IPCP applicants and funding requests/awards can be seen in the table below. Additionally, The Tamarisk Coalition was awarded \$21,000 for technical assistance related to managing IPCP. Remaining funds will be released in a new grant cycle beginning September 30, 2013.

40. Water Planning Studies

Authorization: SB 99-173, SB 09-125

Water Source: N/A Project Type: Water Planning Location: Statewide Project Manager: Ted Kowalski

Sponsor: CWCB Beneficiary: Statewide

The Dolores Water Conservancy District (District), Ute Mountain Ute Tribe (UMUT), and CWCB are performing a joint reconnaissance level study to evaluate potential water supplies to serve the (UMUT). This study includes the Totten Reservoir and the potential new construction of the Plateau Creek Reservoir to store approximately 21,000 AF of water. The study is a cost-share project between all parties. Harris Engineering, Durango, Colorado, was hired to conduct the study and has performed a considerable amount of work to-date. One of the potential water sources for the UMUT was Montezuma Valley Irrigation (MVIC) Company's Class B water under various storage scenarios. Unfortunately, MVIC and the District have recently resolved a lawsuit that was indirectly caused the above water study to be put on-hold. The Study has now been substantially completed; however some of the remaining funding may be made available for implementation. Remaining funds will be used by the Water Supply Planning Section.

41. Wild and Scenic Rivers Fund

Authorization: SB 09-125
Water Source: Various

Water Source: Various Project Type: Study

Location: Various Project Manager: Suzanne Sellers

Sponsor: CWCB Beneficiary: Statewide

Within Colorado, a number of river segments have been classified as eligible for "wild and scenic" designation by various federal agencies and the federal agencies are now considering whether these rivers should be classified as suitable for wild and scenic designation. In response, a number of stakeholder groups have formed to explore alternatives for resource protection that would include wild and scenic designation as well as many other options. These groups exist in the San Juan River Basin, the Dolores River Basin, the Upper Colorado River Basin, and the Lower Colorado River Basin. To date, funds have been used within each of these different basins for facilitators, informational studies, and other operating expenses. In 2009, the General Assembly passed legislation establishing a fund for this project that is automatically refreshed every July 1 up to \$400,000 for work in this regard. This work is ongoing, and will likely continue to use funds for the next several years. Staff will continue to draw down the money in the Wild and Scenic Rivers Study (below) until it is depleted while continuing to tap into the Wild and Scenic Rivers Fund. Since the Wild and Scenic River Study account is nearly depleted, this Wild and Scenic Rivers Fund is needed to fund ongoing work including the implementation of: 1) the Upper Colorado River Wild and Scenic Alternative Management Plan, 2) the San Juan Basin's basin-wide Regional Discussion, and 3) the Implementation, Monitoring and Evaluation Plan and other work by the Lower Dolores Plan Working Group in the Dolores River Basin.

42. Wild and Scenic Rivers Study

Authorization: HB 08-1346

Water Source: Various Project Type: Study

Location: Various Project Manager: Suzanne Sellers

Sponsor: CWCB Beneficiary: Statewide

Within Colorado, a number of river segments have been classified as eligible for "wild and scenic" designation by various federal agencies and the federal agencies are now considering whether these rivers should be classified as suitable for wild and scenic designation. In response, a number of stakeholder groups have formed to explore alternatives for resource protection that would include wild and scenic designation as well as many other options. These groups exist in the San Juan River Basin, the Dolores River Basin, the Upper Colorado River Basin, the Lower Colorado River Basin, and the Gunnison Basin. To date, funds have been used within each of these different basins for facilitators, informational studies, and other operating expenses. In 2009, the General Assembly passed legislation establishing a fund for this project that is automatically refreshed every July 1 up to \$400,000 for work in this regard. This work will likely continue to use funds for the next several years. Staff will draw down the money in this Wild and Scenic Rivers Study account until it is depleted, while also tapping into the Wild and Scenic Rivers Fund (above). Since this Wild and Scenic River Study account is nearly depleted, it is expected that these funds will be used within the next several months to fund ongoing work including the implementation of: 1) the Upper Colorado River Wild and Scenic Alternative Management Plan, 2) the San Juan Basin's basin-wide Regional Discussion, and 3) the Implementation, Monitoring and Evaluation Plan and other work by the Lower Dolores Plan Working Group in the Dolores River Basin.

43. South Platte River and Arkansas River Basins Alternative Agriculture Water Transfer Sustainability

Grant Program

Authorization: SB 07-122 to SB 12S-002

Water Source: Statewide Project Type: Alternative Methodologies

Location: Statewide Project Manager: Becky Mitchell

Sponsor: CWCB Beneficiary: All State River Basin Water

Users

This grant program focuses on identifying and assisting in the development of agricultural transfer methods (ATM)/programs that reduce consumptive use by reducing the amount of irrigation water applied to the crops, change in the type of crops planted, reducing the number of irrigated acres from historic levels while lessening the impact to rural communities. Several types of agricultural transfers have been proposed as potential alternatives to the traditional agricultural transfers that often result in permanent dry-up of all or a large portion of irrigation systems as a means to obtain additional water supplies for emerging needs. Possible transfer methods include, but are not limited to: 1) interruptible water supply agreements; 2) long-term agricultural land fallowing; 3) water banks; 4) reduced consumptive use through efficiency or cropping changes while maintaining historic return flows; and 5) purchase by end users with leaseback under defined conditions.

The Board approved six grant applications that totaled \$1,500,000 at the May, July and November 2008 CWCB meetings. The Lower Arkansas Valley Water Conservancy District was awarded \$320,000 to assist in funding of the Super Ditch Company's rotational fallowing program. The Parker Water and Sanitation District was awarded \$477,500 to assist in funding of the Lower South Platte Irrigation Research and Demonstration Project. The Farmers Reservoir and Irrigation Company (FRICO) was awarded \$202,500 to assist in funding of the Alternative Water Transfers in the South Platte Basin using the FRICO System Project. CSU Extension Office was awarded \$80,350 to study the effects of fallowing. The Highline Canal Company was awarded \$70,000 to further fallowing lease agreements in their canal system. The Colorado Corn Growers Association was awarded \$349,650 to examine a variety of alternative methods within the South Platte Basin.

Since these projects were awarded their funding, much progress has been made by CWCB and the project sponsors in furthering alternatives to permanent water transfers in Colorado. Through these ATM grant projects, CWCB and others have identified numerous hurdles that must be overcome for these alternative water transfer methods to be successful in Colorado. Specifically, the major hurdles facing the implementation of ATM programs in Colorado include: (1) high transaction costs, (2) ability to transfer a portion of a water right (3) certainty of long-term supplies and (4) water rights administration.

In 2011-2012, the Board approved an additional \$1,482,000 in grants that continued to build upon the recent findings and develop solutions to the major hurdles.

44. Climate Change Effects on Colorado Water Resources Study

Authorization: HB 08-1346

Water Source: N/A Project Type: Study

Location: Statewide Project Manager: Taryn Finnessey

Sponsor: CWCB Beneficiary: Statewide

Climate change has the potential to greatly impact Colorado's natural resources, including water resources. The Colorado Climate Action Plan laid out a number of goals, two of which included adaptation, and education and outreach. In accordance with these goals, CWCB partnered with a number of Front Range utilities to examine how changes in climate can impact Front Range municipal water resources. This study, "The Joint Front Range Climate Change Vulnerability," was published in spring 2012 by the Water Research Foundation. Additionally, CWCB worked with Western Water Assessment (WWA) and NOAA to produce a synthesis report entitled "Climate Change in Colorado" which was released in October of 2008, and will be updated in FY 13/14 with the latest CMIP 5 data sets. CWCB has also partnered with WWA and NOAA to hold a series of workshops entitled "Dealing with Drought in a Changing Climate" to educate Coloradoans on the report findings, CWCB will likely do a similar series of workshops once the new updated report with the most recent data is complete.

45. Colorado Drought Mitigation and Response Plan Implementation Program

Authorization: HB 08-1346

Water Source: N/A Project Type: Drought Plan
Location: Statewide Project Manager: Taryn Finnessey

Sponsor: CWCB Beneficiary: Statewide

In compliance with the Federal Emergency Management Agency (FEMA) requirements, CWCB completed a comprehensive revision to the State Drought Mitigation Response Plan, approved by the CWCB Members, Governor Hickenlooper and FEMA in 2010 and is updating that report in 2013. The plan is on track to be adopted by the board in September 2013. The plan builds on the 2010 plan by recommending a multitude of implementation projects that will bolster the State's drought mitigation and monitoring efforts as well as aid in the local drought planning process. In Fiscal Year 2013, CWCB held a Drought Impacts Tour for policy makers to see firsthand the impacts of drought and help to improve the communication between the producers and policy makers, another tour is scheduled for August 12, 2014 in the Arkansas River Basin which has suffer from exceptional drought for 3 years. A large statewide drought conference was also held in Fiscal Year 2013entitled "Building a Drought Resilient Economy Through Innovation" with nearly 200 attendees from the local, state and federal levels the conference received great accolades and was considered a big success.

46. Drought Mitigation Planning Technical Assistance

Authorization: SB 07-122

Water Source: N/A Project Type: Tech. Planning Asst.
Location: Statewide Project Manager: Taryn Finnessey
Sponsor: CWCB Beneficiary: Statewide Water Users

The Drought Mitigation Planning Technical Assistance Program seeks to implement major issues identified in the 2004 and 2007 CWCB-commissioned Drought & Water Supply Assessment Study and the state approved Drought Mitigation and Response Plans. Issues included the need for future drought mitigation planning projects whereby public information and education, as well as technical assistance, in drought planning would be critical in addressing the availability and reliability of water supplies in the future. Among the key recommendations made in these studies is the need for technical support. Over the last three years CWCB has developed a number of resources to provide technical assistance to water providers and local communities in developing their drought plans. These include a drought planning tool box first developed in 2010 and updated in 2013, a Municipal Drought Planning Guidance document and a Sample Municipal Drought Management Plan. A series of workshops teaching providers how to utilize these tools was completed in May and June of 2011. Additional resources will likely be developed following the completion of the 2013 State Drought Mitigation and Response Plan.

47. Water Conservation Data Tracking Project

Authorization: HB 11-1274

Water Source: N/A Project Type: Research Study
Location: Statewide Project Manager: Kevin Reidy
Sponsor: CWCB Beneficiary: Statewide Water Users

To better understand Colorado's future water supply needs and options, more local information must be incorporated into demand forecasts. The data tracking portion of this project has begun with the development of the HB10-1051 Water Conservation Data Portal. At present time, CWCB staff is working with Leonard Rice Engineers to verify all the data requirements and functional aspects of the portal. The next step is to build a working website portal that will be ready to view at a workshop for the Water Conservation Technical Advisory Group in September 2013. At that time, various water providers (covered entities) will test the tool for approximately 3-4

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months to ensure it operates as intended with full access to the tool scheduled at the beginning of 2014.

48. <u>U.S. Bureau of Reclamation / State Land Board Rights-of-Way – Closed Basin Project</u>

Authorization: SB 79-537, HB 00-1419

Water Source: Closed Basin Project Type: Right of Way Acquisition

Location: San Luis Valley N. of Alamosa Project Manager: Kirk Russell Sponsor: CWCB Beneficiary: State of Colorado

This project is the acquisition of rights-of-way (ROW) for the Closed Basin Project (Project) in the San Luis Valley. In Fiscal Year 2010, CWCB, the State Land Board and the Bureau of Reclamation (BOR) completed all of the conveyance documents for assigning the easements and ROW in the Project to the BOR. The Project was completed, with the final assignment of the easements and ROW being recorded by the BOR in September 2010. The remaining funds can be returned to the Construction Fund.

NOTE: Severance Tax Trust Fund Operational Account Project Status begins on the following page.

Severance Tax Trust Fund Operational Account

The following table summarizes the Severance Tax Trust Fund Operational Account projects authorized by the Long Bill and monitored by the Colorado Water Conservation Board Staff during the fiscal year. Details of the projects follow this summary.

<u>No.</u>	Project	Project Manager	FY13 Amount
	Interstate, Federal, and Water Information Programs		
1	Work Related to Recreational Projects	Kowalski	\$ 79,360
2	Arkansas River Mainstem Transit Loss Model Modification	Miller	\$ 25,700
3	Recent Trends in Dust Deposition to Snowpack	Garrison	\$ 50,000
4	Lo Ark Valley Demonstration Recharge Pond	Miller	\$ 60,000
5	South Park Mineral Development Assessment	Moore	\$ 75,000
6	Douglas County Groundwater Resources Series	Moore	\$ 52,000
7	Investigation of Whitewater Parks on Aquatic Resources	Kowalski	\$ 46,000
8	Evaluating SPDSS Groundwater Flow Model	Alvarado / Moore	\$ 50,000
9	CoAgMet Station at the Paradox Salinity Control Unit	Miller	\$ 10,000
10	Upper Arkansas CoAgMet Equipment	Moore	\$ 5,000
11	Gunnison Salinity Study	Miller	\$ 5,000
	Finance and Administration Programs		
12	Extreme Precipitation Analysis Tool Software	Mauss	\$ 91,720
13	Bull Creek Reservoir #4 Wetlands Study	Russell	\$ 16,750
14	Inundation Mapping for SEO Projects	Hernandez	\$ 18,000
15	DWR Equipment	Russell	\$ 15,000
	Stream and Lake Protection Programs		
16	Case Management and Litigation Support	White	\$ 51,500
17	Effects of Future Water Development in Lo Yampa	Baessler	\$ 60,000
18	Instream Flow Program Outreach and Education	Baessler	\$ 10,600
19	Assessing the Movement of Native Fishes	Bassi	\$ 59,930
	Watershed and Flood Protection Programs		
20	Multi-Objective Watershed Restoration Projects	Sturm	\$160,720
21	Flood Mitigation and Project Compliance	Houck	\$ 72,790
22	Colorado Dust on Snow	Busto	\$ 50,000
23	FEMA Coordinator Matching Program	Houck / Prochno	\$ 36,600
	Water Supply Planning, Drought, and Conservation Pro	grams	
24	Drought Mitigation and Response Plan Update 2013	Finnessey	\$ 75,000
25	Conservation and Drought Planning Program Mgmt	Finnessey	\$ 3,250
26	CoAgMet Operations and Maintenance	Finnessey	\$ 50,000
27	Co Household Preferences in Water Challenges	Reidy	\$ 37,230
	Total Severance Tax Expended for FY 13		<u>\$1,267,150</u>

Details of the Grants Provided for the above Projects are as follows:

1. Work Related to Recreational Projects

Water Source: N/A Project Type: Support Services

Location: Statewide Managers: Ted Kowalski/Suzanne Sellers

Sponsor: CWCB Beneficiary: Statewide

A portion (\$40,000) of these funds were used for recreational studies related to the Upper Colorado River segments that are being considered for Wild and Scenic designation to assure that recreational boating and recreational fishing information is thorough and accurate. This year's recreation observations and intercept surveys began on April 25th at the Radium, State Bridge and Grizzly sites and will include 9 survey dates through the season.

2. Arkansas River Mainstem Transit Loss Model Modifications

Water Source: Arkansas River Project Type: Study

Location: SE Colorado Project Manager: Steve Miller Sponsor: CWCB Beneficiary: Reservoir Water Users

This project provided \$25,000 of new funding for an update of transit loss / travel time accounting tools previously developed for the Arkansas River between Pueblo Reservoir and the Kansas Stateline also using Board funding. In the update we worked with DWR Division 2 and the Southeastern Colorado Water Conservancy District to make those tools better able to incorporate real time streamflow data and produce results more useful for real time river administration. The updates are complete and the first implementation will be presented to water users at the spring 2014 meeting of the Pueblo Winter Water Program participants.

3. Recent Trends in Dust Deposition to Snowpack in the Rocky Mountains

Water Source: N/A Project Type: Study

Location: Western Colorado Project Manager: Michelle Garrison Sponsor: USGS Beneficiary: Local Water Users

The USGS is conducting this study on the effects of windblown dust deposition on snowpack, including albedo and snowmelt timing, in the Rocky Mountains. Snow samples were collected throughout the winter of 2012/2013. Analysis of snow samples, including dust deposition and snow chemistry, was performed. Modeling and further analysis are currently being conducted. A report will be drafted, peer-reviewed, and completed within a year.

4. Study of Pond Loss on Water Short Canals and Lower Arkansas Valley Demonstration Recharge

Pond

Water Source: Arkansas River Project Type: Study

Location: SE Colorado Project Manager: Steve Miller Sponsor: LAVWCD Beneficiary: Sprinkler Irrigators

This project provided \$60,000 to the Lower Arkansas Valley Water Conservancy District to re-initiate a study of pond seepage rates which will be used to establish the appropriate accretion credits under the SEO's surface water irrigation efficiency rules. The Board's funds were used by the LAVWCD to design statistically valid study protocols, purchase meters at approximately 25 sites, and collect first year data of what will be a multi-year study. The required additional years of study will be funded by the LAVWCD from other sources. First year results have been reported to local water users and Division 2.

5. South Park Mineral Development Assessment

Water Source: N/A Project Type: Study

Location: South Park Project Manager: Andy Moore Sponsor: CUSP Beneficiary: Local Water Users

In anticipation of increased mineral development in South Park, the Coalition for the Upper South Platte is developing a baseline monitoring program and analyzing existing conditions related to water quality, subsurface characteristics, and critical natural resource areas. In this part of the project, four monitoring wells were installed to assist in obtaining background groundwater data in South Park.

6. <u>Douglas County Groundwater Resources Series</u>

Water Source: N/A Project Type: Study

Location: Douglas County Project Manager: Andy Moore Sponsor: CGS Beneficiary: Local Water Users

This multi-year effort addresses counties where development pressures are currently straining water resources and where comprehensive county-wide assessments have not been done. Douglas County was identified as a priority county for a groundwater assessment. This county is experiencing considerable development pressure that is dependent on groundwater. The proposed assessment will be comprehensive, addressing all aquifer types within the given county. This would include near-surface unconsolidated aquifers and bedrock aquifers as well as crystalline rocks in the highland areas.

7. <u>Investigation of the Effects of Whitewater Parks on Aquatic Resources in Colorado, Year 2</u>

Water Source: N/A Project Type: Study

Location: N/A Managers: Ted Kowalski/Suzanne Sellers

Sponsor: CSU Beneficiary: CSU

CWCB provided funding for a second year of investigation on the impact of whitewater parks on aquatic resources. CSU will be submitting a report to CWCB that describes the results of the PIT tag study and associated hydraulic measurements. An analysis of the results discussing the impacts whitewater structures appear to be having on aquatic resources have been provided in the report along with practical whitewater park design recommendations.

8. Modeling the Influence of Conjunctive Water Use on Flow Regimes in the South Platte River

Basin using the SPDSS Groundwater Flow Model

Water Source: N/A Project Type: Study

Location: N/A Managers: Ray Alvarado / Andy Moore

Sponsor: CSU Beneficiary: CSU

This is a CSU research project that will focus on the critical linkages between groundwater pumping for irrigation and the coupled groundwater/surface water regimes in the South Platte River Basin. The study will rely on the use of the South Platte Decision Support System (SPDSS) alluvial groundwater flow model. The long-term goal of this project is to provide the Colorado Water Conservation Board (CWCB) with an independent evaluation of the SPDSS groundwater flow model, highlighting model capabilities, strengths and weaknesses. The proposed project will be carried out over three years. Year one of this effort has been completed with the year one technical report being completed.

9. CoAgMet Station at the Paradox Salinity Control Unit

Water Source: N/A Project Type: Equipment purchase

Location: Paradox Valley, western Montrose County Project Manager: Steve Miller

Sponsor: US Bureau of Reclamation

Beneficiary: Colorado R. Salinity Control

In cooperation with CSU's CoAgMet program severance tax funds were used to purchase all necessary equipment for a CoAgMet weather station and regulation evaporation pan to be

located at the USBR's Paradox Valley Colorado River basin Salinity Control Program Facility. The facility intercepts naturally occurring saline brine which would otherwise enter the Dolores River and disposes of it by deep well injection. The injection well has limited remaining life and studies are underway to develop alternate brine disposal alternatives. The CoAgMet and evaporation pan data will be used to evaluate the potential for use of evaporation ponds at Paradox. USBR has agreed to fund station operation during the study period. After the brine alternatives have been developed and implemented the CoAgMet station may continue to be operated as part of the statewide network by other interested parties.

10. Upper Arkansas CoAgMet Equipment

Water Source: N/A Project Type: Data Collection/Planning

Location: Various Project Manager: Andy Moore

Sponsor: CWCB Beneficiary: Statewide

The Colorado Agricultural Meteorological Network (CoAgMet) is a network of weather stations that provide data necessary for many water resources planning applications in Colorado. These funds were used for the operation and maintenance of four relatively new stations in the Upper Arkansas Basin.

11. Gunnison Salinity Study

Water Source: Gunnison River

Location: Delta County

Sponsor: Gunnison Selenium Management Program

Project Type: Education/Outreach
Project Manager: Steve Miller
Beneficiary: SMP Participants

The SMP is a required element for the continued operation of the Aspinall Unit pursuant to recently completed environmental compliance activities. The Board is a committed partner in the SMP in consideration of the benefits it provides to existing and future water users in the basin. The primary Board funding source to assist in controlling selenium loading has been the Species Conservation Trust Fund, but in this case \$5000 of FY2012-13 severance tax funds were used to pay for the services of SC Environmental. SCE conducted community outreach and education to water users with the goal of increasing voluntary participation in the SMP and related activities underway through the Colorado River Basin Salinity Control Program.

12. Extreme Precipitation Analysis Tool Software Verification Project

Water Source: N/A Project Type: Software
Location: Various Project Manager: Anna Mauss
Sponsor: DWR Beneficiary: Statewide

The original software was developed by HDR Consultants under contract with DWR, in order to develop modern meteorological techniques for evaluating the safe spillway size for High and Significant Hazard dams. The West Slope version of the program was released in September 2006. Later EPAT was released for the entire State, excluding areas below 5,500 feet in elevation east of the Continental Divide, and with a basin area upper limit of 500 square miles. After several years of use, DWR staff has identified areas of concern with EPAT results, especially in areas along Colorado's Front Range. The work completed fin FY2012-13 was a software review and documentation phase. This work will lead to further EPAT development. The EPAT software will allow spillways to be optimized for dam safety, resulting in minimizing cost to dam owners.

13. <u>Bull Creek Reservoir #4 Wetlands Study</u>

Water Source: Grand Mesa Project Type: Study

Location: Grand Mesa National Forest Project Manager: Kirk Russell Sponsor: BCRC&PC Beneficiary: Area Reservoir Owners

This funding is to perform monitoring of the effects of a periodic inundation of wetlands and fens associated within the Bull Creek Reservoir #4 rehabilitation, The information can and will be used to develop future requirements for water projects on the Grand Mesa. The work has been completed for this phase of the project.

14. <u>Inundation Mapping for State Engineer's Office Projects</u>

Water Source: Various Project Type: Mapping Study
Location: Various Managers: Kirk Russell / Jonathan

Hernandez

Sponsor: SEO Beneficiary: Local Water Users

These funds were for the preparation of flood inundation mapping for two different entities, totaling three dams. The effort included dam breach modeling to assess the extent of downstream impacts should the dam(s) fail. Deliverables included a letter report for the inundation mapping, digital files of the inundation limits, inundation maps and supporting hydraulic calcs prepared by a licensed professional engineer.

15. DWR Equipment

Water Source: N/A Project Type: Equipment Purchase Location: South Platte Basin Project Manager: Kirk Russell Beneficiary: Local Water Users

This project provides meter equipment and field data collection systems/recorders for integration into DWR's databases. The data collected is used by the DWR staff to avoid routine travel to the well sites around the South Platte Basin

16. Case Management and Litigation Support

Water Source: N/A Project Type: Admin Support Location: Denver Project Manager: Kaylea White

Sponsor: CWCB Beneficiary: Statewide

These funds were used to retain a part-time paralegal to assist the Section with ISF case management, including organizing case files, tracking court deadlines, prioritizing case review, and drafting pleadings, memos, correspondence and other documents as appropriate. The CWCB is a party in approximately 175 active water court cases. In these cases, the Stream and Lake Protection Section staff is responsible for: (1) protecting the CWCB's water rights, (2) obtaining decrees for new ISF water rights; or (3) obtaining decrees for changes of acquired water rights to ISF use. This project enables staff to focus on the substantive aspects of water court cases, and to resolve more cases in a timely manner.

17. Potential Effects of Future Water Development on Streamflow in Lower Yampa River, Phase 2

Water Source: Yampa River Project Type: Study

Location: Yampa River Basin Project Manager: Jeff Baessler Sponsor: USGS Beneficiary: Statewide Water Users

The lower Yampa River in northwestern Colorado is the largest, relatively unregulated river system in the upper Colorado River basin. Water from the Yampa River basin continues to be sought for a number of municipal, industrial, and energy uses; specifically, development and storage of peak streamflows during the snowmelt-runoff hydrograph. It is anticipated that future water development within the Yampa River Basin above the amount of water development covered under the Upper Colorado River Endangered Fish Recovery Implementation Program and the Programmatic Biological Opinion may require additional National Environmental Policy Act (NEPA) compliance and analysis of the effects of sediment transport on species. It has been shown in previous investigations by Elliott and others (1984) that reductions in peak streamflow magnitude and duration can significantly change the transport and storage of sediments within important reaches of the

Yampa River. This change in transport and storage may lead to changes in channel geometry, riparian vegetation, and aquatic habitat.

The data sets (topographic surveys of the streambed and flood plain, grain-size analysis of streambed sediment, and characterization of streamflow properties such as water-surface elevations and velocity profile) from Phase 1, which was completed in FY 2011, have now been published as a USGS Scientific Investigations Map. In addition, the iRIC (International River Interface Cooperative) two dimensional computational streamflow-hydraulics and sediment transport model flow-scenario calibration and sensitivity analysis will be completed later this Fall. Calibration of the model will involve 14 specific streamflow conditions within the reach (a range from 200 to 26,700 cubic feet per second). For example, base flow conditions will be modeled at flows of: 200; 500; 750; 1,000; and 1,500 cubic feet per second.

A future phase III study would finalize and publish all of the model results and could provide example applications of streamflow model use. One example could be a comparison of water years 2002 and 2011 peak-flow conditions (depth of water, water velocity, flood-plain inundation duration and extent, and sediment-transport conditions). The hydrodynamic model simulations could also be used by stakeholders to understand the potential effects of altered peak streamflow on sediment transport and storage in Deerlodge Park; an important alluvial-park reach of the Yampa River identified by the National Park Service.

18. Instream Flow Outreach and Education

Water Source: N/A Project Type: Education
Location: Denver Project Manager: Jeff Baessler

Sponsor: CWCB Beneficiary: Statewide

This project is directed at increasing public awareness of new instream flow appropriations and acquisitions. As the Basin Roundtables work to address nonconsumptive needs and formulate Basin implementation plans, additional outreach and education activities can result in as increased collaboration and coordination between various stakeholders with regard to the ISF Program. In FY12-13, this project involved the development and distribution of ISF water rights tabulations, and provided a funding mechanism to aid staff in the increase in travel activities that were necessary.

19. Assessing the Movement of Native Fishes Relative to Temperature and Flow

Water Source: Dolores River

Location: Dolores River

Sponsor: Dolores WCD

Project Type: Equipment Purchase
Project Manager: Linda Bassi
Beneficiary: Statewide Water Users

These funds were used to purchase and install a PIT (Passive Integrated Transponder) tag array on the Dolores River above the confluence with Disappointment Creek. In conjunction with this installation, all native fish captured during fish surveys will be PIT tagged. The PIT tag array will track the upstream and downstream movement of tagged fishes. The system will be remotely operated and contain solar panels for a power source and a satellite modem to transmit data acquired when a fish swims over the antennas mounted on the bottom of the river channel. It will operate continuously and can track the date, time, and direction of individually tagged fish when they pass over the antenna. Understanding critical periods of native adult and juvenile fish movement relative to flow may allow water managers to prescribe more finely tuned flow recommendations within the constructs of the Dolores Project that can benefit the native fish community. Local stakeholders provided approximately \$30,000 in matching funds for this project, which will inform the work of the Lower Dolores Plan Working Group.

20. Multi-Objective Watershed Restoration Projects

Water Source: Various Project Type: Restoration Project Location: Statewide Project Manager: Chris Sturm

Sponsor: CWCB Beneficiary: Local Water Users

The Multi-Objective Watershed Restoration Project exists to augment funding for the Colorado Watershed Restoration Program (see Construction Fund – Non-reimbursable #22) and the Colorado Healthy Rivers Fund (Tax Check-off Program). It also exists to fund multi-objective projects in watershed protection, flood mitigation, and water supply of special interest to the CWCB, e.g. projects identified in the Non-Consumptive Needs Assessment. Projects funded in FY 12 – 13 include erosion control/channel restoration on Pikes Peak, Fourmile Fire flood mitigation (Boulder County), Uncompahgre River riparian re-vegetation (Ridgway), Swan River channel restoration (nr. Breckenridge), Colorado River watershed assessment (Eagle County), Chico Basin riparian re-vegetation (Arkansas Basin), and diversion dam design on Coal Creek (Crested Butte). Staff strives to support qualifying Multi-Objective Watershed Protection Projects throughout the entire state.

21. Flood Mitigation and Project Compliance

Water Source: N/A Project Type: Planning and Study Location: Various Project Manager: Kevin Houck

Sponsor: CWCB Beneficiary: CWCB

Funds from this account were used for a number of projects involving both hazard identification and mitigation. Funds were provided to Summit County, Ouray County, Park County, and Teller County to leverage local funds and other state funds to perform an all-hazard mitigation plan to address risks due to flooding and other natural hazards. Funds were also used to analyze the levee structure surrounding the unincorporated town of Elbert and recommend improvements to the structure and changes to the floodplain mapping for the area to more accurately depict the risk associated with the town. Funds were also used in partnership with the Nebraska Community Foundation to analyze various hydroclimatic indices in the North and South Platte River basins for the purposes of early seasonal water supply predictions. Finally, funds were used to produce a post-wildfire flooding and inundation study for the Waldo Canyon burn scar in partnership with El Paso County.

22. Colorado Dust on Snow Program

Water Source: N/A Project Type: Planning and Study Location: Statewide Project Manager: Joe Busto

Sponsor: CSAS Beneficiary: Statewide Water Users

On behalf of the Colorado water management community, the Center for Snow and Avalanche Studies (CSAS), based in Silverton, conducts the Colorado Dust-on-Snow applied science program (CODOS) at its Senator Beck Basin Study Area at Red Mountain Pass and at ten additional sites located throughout the Colorado mountains. Water Year 2013 combined challenging snowpack monitoring, as conditions rapidly diverged in late winter, with alarmingly intense and prolonged dust-on-snow events. CODOS began publishing internet-based Update products in early winter, in the face of sustained drought, followed by several sets of site-specific reports throughout the prolonged spring, providing the CODOS community with timely analyses and forecasts of dust effects on statewide snowpack conditions, snowmelt timing and rates, and snowmelt runoff behaviors. Additional email products informed the CODOS community of new dust-on-snow research publications and NOAA climate forecast products, and provided imminent dust event Alerts. Our final set of Season Summary reports described snowpacks impacted by extensive, and in some cases record, dust deposition. Snowmelt runoff onset timing varied by region but, once underway, most systems eventually exhibited a compressed, or "flashy" runoff cycle ending with a very rapidly declining descending limb to very low flow levels. Research published this spring has verified what our CODOS log of dust-on-snow events has so strongly suggested – over the past 17 years, dust deposition has increased throughout the western US and western Colorado has seen the largest increases of all. Dust-on-snow persists, and perhaps worsens, as a factor in the Colorado snowpack. CSAS wishes to continue to provide, and improve, these CODOS products and services in WY 2014. A complete Water Year 2013 Summary Report is presented at: http://snowstudies.org/dust/SBBSA/summary_2013.html.

23. FEMA Coordinator Matching Program

Water Source: N/A Project Type: Matching Program
Location: Various Managers: Kevin Houck/Jamie Prochno

Sponsor: CWCB Beneficiary: NFIP Interests

These funds are available to match the federal grant (75 federal / 25 non-federal) for the full-time position within the CWCB known as the Community Assistance Program (CAP) coordinator. This position works closely with FEMA and carries out the missions and objectives of the National Flood Insurance Program (NFIP) for Colorado. The CAP position is fully operational at this time and several highly successful workshops have been conducted in addition to the regular programmatic responsibilities and regular coordination with FEMA and local governments

24. Drought Mitigation and Response Plan Update 2013

Water Source: N/A Project Type: Drought Planning Location: N/A Project Manager: Taryn Finnessey

Sponsor: CWCB Beneficiary: Statewide

In compliance with the Federal Emergency Management Agency (FEMA) requirements, CWCB completed a comprehensive revision to the State Drought Mitigation Response Plan, approved by the CWCB Members, Governor Hickenlooper and FEMA in 2010 and is updating that report in 2013. The plan is on track to be adopted by the board in September 2013, the Governor later in 2013 and will be submitted to FEMA in January 2014 as part of the State's natural Hazards Mitigation and Response Plan. The plan has been developed using a stakeholder advisory committee and will undergo a 30 day public comment period July 22-August 20, 2013.

25. Conservation and Drought Planning Program Management

Water Source: N/A Project Type: Drought Planning
Location: N/A Project Manager: Taryn Finnessey

Sponsor: CWCB Beneficiary: Statewide

In response to ongoing and persistent drought conditions the Office of Water Conservation and Drought Planning developed a drought response portal that can be found at www.COH2O.co. This portal features a searchable database of water providers with water restrictions in 2013 and a drought meter developed by CWCB to provide easily accessible drought information to the public. The meter can also be installed on local provider's websites free of charge. The website/portal creation was a collaborative effort between local water providers, DNR and CWCB.

26. CoAgMet Operations and Maintenance

Water Source: N/A Project Type: Planning

Location: N/A Project Manager: Taryn Finnessey
Sponsor: CSU Beneficiary: Statewide / CSU

During the 2012-2013 fiscal year this severance tax grant supplemented the needs of the CoAgMet network to ensure functionality as well as making additional upgrades for drought monitoring capabilities. New sensors were purchased to supplement a depleted supply of aging sensors of various types including: temperature/relative humidity probes, pyranometers, anemometers and precipitation gages. The grant also paid for recalibration of sensors so that they could be redeployed into the network with new calibration to ensure data quality. In addition to the normal suite of sensors, soil moisture monitoring sensors as well as upgraded dataloggers to operate those sensors were also purchased using this grant. Funds helped to ensure that CoAgMet is maintained to the highest of standards for data collection and monitoring in Colorado.

27. Colorado Household Preferences in Meeting Future Water Challenges

Water Source: N/A Project Type: Study

Location: N/A Project Manager: Kevin Reidy

Sponsor: CSU Beneficiary: CSU

State-of-the-art survey methods were employed to conduct a comprehensive investigation of residential Colorado households' water knowledge, preferences for meeting short term scarcity, addressing long term water development challenges and customer's willingness to pay for water initiatives to meet the municipal gap. More than 2,000 Colorado households were surveyed on their preferences for addressing short and long-term water scarcity issues. The central question of the research was "What are the preferences of Colorado households towards the various alternatives for closing the gap?" The summary of results were 1) After residential indoor water use, agricultural ranked as the highest priority to receive water during periods of drought; 2) In ranking the potential impacts of policies to address long-term water scarcity, households were most concerned about the potential dry-up of agricultural land; indicating they were less opposed to substantial price increases (base charges of \$15-\$30 per month and/or increases in the price of water by 25-50%) and reductions in the "greenness" of their communities (both private and public areas); 3)Households indicated a preference for a portfolio of polices that was relatively balanced in terms of the mix of price and non-price conservation, new supply development and ag-transfers. However, they tended to prefer mixes that were less reliant agricultural transfers.



11 WSRA Open Grant Projects - Bo	WSRA Open Grant Projects - Board Approved - Not Yet Contracted					Updated 9/5/2013	2013	LORADO HARANA DE CONTRA DE
TTACHI Basin Applicant	Name of Water Activity	CWCB Meeting	Basin Account Approved	Statewide Amount Approved	Total Request	Type of Water Activity	PM	1937
Gunnison Delta Conservation District	Curry Easements Woody Invasives Removal Project -	Jul-13	\$8,865	\$0	\$8,865	Nonconsumptive	ı	
Gunnison Elmer L. Ferganchick	west Side of the North Fork of the Gunnison River Bonita Reservoir Dam Outlet Pipe Rehabilitation	Jul-13	\$54,285	\$ 0	\$54,285	Agricultural	Jonathan Hem	בַּ
	Replacement of Measuring Devices on Grand Mesa	Jul-13	\$40,000	\$0	\$40,000	Other	Jacob Bornstei	<u>u. </u>
Rio Grande Trout Unlimited	Kerber Creek Restoration Project	Jul-13	\$34,871	\$0	\$34,871	Nonconsumptive		
2013 March Board Approvals								
Arkansas Southeastern Colorado Water	Arkansas River Basin Study	Mar-13	\$59,600	\$238,400	\$298,000	Other	Andy Moore	
Colorado Mr. William Grange	Grace and Shehi Diversion Rehabilitation Project (Phase I	Mar-13	\$40,500	\$0	\$40,500	Agricultural	Jacob Bornstei	<u>v</u> .
Gunnison Colorado Open Lands	Lake San Cristobal Inlet Preservation and Fishing Access	Mar-13	\$16,700	\$150,300	\$167,000	Nonconsumptive	Kirk Russell	
Rio Grande Mogote-Northeastern Consolidated Ditch Company	Quantifying Mogote/Romero Flows & Effects on the Conneios System	Mar-13	\$16,700	\$268,300	\$285,000	Agricultural	Greg Johnson	J
Rio Grande SANGRE DE CRISTO ACEQUIA ASSOCIATION	Culebra Watershed Vallejos Ditch Headgate Replacement	Mar-13	\$10,000	\$90,000	\$100,000	Agricultural	Anna Mauss	
Rìo Grande Santa Maria Reservoir Company	SANTA MARIA RESERVOIR SIPHON & CANAL SYSTEM REHABILITATION	Mar-13	\$23,000	\$440,750	\$463,750	Agricultural	Anna Mauss	
South Platte Ducks Unlimited, Inc.	Prewitt Reservoir Wetland Partnership	Mar-13	\$45,414	\$45,414	\$90,828	Nonconsumptive	Todd Doherty	
Yampa/White Routt County Conservation District	Armstrong Creek Restoration Project	Mar-13	\$15,000	\$35,000	\$50,000	Nonconsumptive	Chris Sturm	
2013 January Board Approvals Arkansas Purgatorie River Water Conservancy District	Purgatorie River Reach 3 Habitat Improvment Project	Jan-13	\$26,200	\$0	\$26,200		Chris Sturm	
2012 September Board Approvals Gunnison Town of Ridgway	Town of Ridgway Lake Otonowanda Renovation Project	Sep-12	\$60,000	\$540,000	\$600,000	Municipal & Industrial	Kirk Russell	
Ф	Sanchez Reservoir Phase 2 - Outlet Rehabilitation and Gate Tower Replacement	Sep-12	\$55,000	\$859,400	\$914,400	Agricultural	Anna Mauss	
2011 September Board Approvals Southwest Lake Durango Water Authority	Lake Durango Water Authority/ Source Water	Sep-11	\$50,000	\$450,000	\$500,000	Municipal & Industrial	Kirk Russell	\$450k Statewide funds approved - May 11,2011 Board
Southwest Lake Durango Water Authority	Lake Durango Water Authority/ Source Water Infrastructure	Sep-11	\$50,000	\$450,000	\$500,000	Municipal & Industrial	Kirk Kussell	\$450k Statewide funds approved - May 11,2011 Board Meeting
2011 July Board Approvals Southwest Pagosa Lake Property Owners Assoication	Pagosa Lakes Area Village Lake Dam Outlet Pipe Repair Project	Jul-11	\$25,000	\$0	\$25,000	Municipal & Industrial	Kirk Russell	
2011 May Board Approvals 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 Bornstei	<u>u. </u>
2011 March Board Approvals Grand Mesa Water Conservancy District, Water Enterprise Fund	The Rehabilitation of Blanche Park Reservoir	Mar-11	\$75,000	\$ 0	\$75,000	Agricultural	Anna Mauss	Todd Doherty & Jacob Bornstein - Project Managers 7/11/13 Per Peg Mason the applicant/grantee can not
								accept funds for this grant until Jan 2014 per Mario Trimble, Bond Council.
South Platte Northern Colorado Water Conservancy District	Data Logger and Telemetry Installation Project	Jul-10	\$46,000	\$0	\$46,000	Agricultural	Ryan Edwards	σ

2009 July Board Approvals
Southwest Town of Saw

Town of Sawpit

Domestic Water System Construction

Jul-09

\$25,000

\$0

\$25,000

Municipal & Industrial

Anna Mauss

\$0

\$0

\$0

Gunnison	2010 N	A1 Basin	TTACHMENT 11
son	2010 May Board Approvals	_	SRA O
Lake San Cristobal Water Activity Enterprise (LSCWAC)	pprovals	Applicant	oen Grant Projects - Bo
Lake San Cristobal Outlet Structure		Name of Water Activity	WSRA Open Grant Projects - Board Approved - Not Yet Contracted
May-10		CWCB Meeting	
May-10 \$150,000		Account Approved	Basin
\$0		Amount Approved	Statewide
\$150,000		Total Request	
Municipal & Industrial		Type of Water Activity	Updated 9/5/2013
Kirk Russell		PM	<i>\(\)</i> /2013
		Actions/Comments/Notes	
			COLORADO ANTINES COLORA



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Gunnison	Gunnison	Number of Projects	Colorado Basin Total Request	Colorado	Colorado	Colorado	Colorado	Colorado	Colorado	Colorado	Colorado	Colorado	Colorado	Colorado	Colorado	Number of Projects	Arkansas/South	Arkansas/South Platte/Metro	Number of Projects	Alkalisas basili lotal keduest	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Arkansas	Basin			WSRA IN
Gunnison County	North Fork Water Conservancy District (NFWCD) and Fire Mountain Canal and Reservoir Company (FMCC)	cts 12	otal Request	Grand County	Tamarisk Coalition	Roaring Fork Water Conservancy	Eagle River Watershed Council, Inc.	Blue River Watershed Group	Robinson Ditch Company	Eagle River Watershed Council, Inc.	Colorado State University	Colorado Mesa University	Mesa Conservation District	Town of Gypsum	Basalt Water Conservancy District	cts 1	Arkansas/South Platte/Metro Basin Total Request	Water Environment Research Foundtion	cts 12	or veduest	McClave Water Association Inc.	Arkansas Groundwater Users Assoiciation (AGUA)	Crowley County Board of Commissioners	Fountain Creek Watershed Greenway and Flood Control District	Colorado Water Institute	Upper Arkansas Water Conservancy District	Pisgah Reservoir and Ditch Company	Cross Creek Metropolitan District	El Paso County by its Board of County Commissioners	City of Trinidad	Lower Arkansas Valley Water Conservancy District	Colorado State Parks	Applicant			WSRA IN PROGRESS PROJECTS
75 Ditch Diversion Improvement and Feature Enhancements	Sedimentation Management Study For Paonia Reservoir - North Fork of the Gunnison			Gore Canyon Whitewater Park at pumphouse - Colorado River	Grand Valley Riparian Restoration Collaborative (GVRRC) Project	Crystal River Watershed – Assessment and Design of Restoration Projects	Colorado River Restoration and Conservation Projects	Tenmile Creek Restoration Project	Robinson Ditch Piping Improvements	Colorado River Inventory & Assessment	Investigation of Water Savings, Water Quality benefits and Profitability of Sub Surface Drip on Alfalfa in Grand Valley	Colorado Water 2012	Small Acreage Irrigation Audit Program	L.E.D.E. Ditch and Reservoir Reconstruction	Missouri Heights			Demonstration of Membrane Zero Liquid Discharge Process for Drinking Water Systems			Water Tank Replacement	A Multi-Media Program for Reporting Crop and Turf Water Use Estimates from the Colorado Agricultural Meteorological Network (CoAgMet	Ordway Cattle Feeders Water Line Extension, Phase II	Fountain Creek Bank Restoration at the Frost Ranch	Agricultural Economics and Water Resources: Methods, Metrics and Models - A Speciality Workshop	Build, Assess, and Document Accounting and Administration Tools for Lease Fallowing in the Arkansas River Valley	Mount Pisgah Dam/Wrights Reservoir Outlet Works Rehabilitation	Hale Reservoir Renovation – Final Design & Permitting	Groundwater Quality Study - Phase 2 - Upper Black Squirrel Creek Alluvial Aquifer in the Arkansas River Basin	North Lake Dam Rehabilitation Project	Super Ditch Delivery Engineering	Helena Diversion Structure/BV Boat Chute Improvement Project	Name of Water Activity			. S
May-10	Sep-07			Jan-13	Sep-12	Sep-12	Sep-12	Sep-12	Sep-12	May-12	Mar-12	Jan-12	Mar-11	Sep-10	Sep-07			Sep-08			Jul-13	Mar-13	Mar-13	Mar-13	Mar-13	Sep-12	Sep-12	Sep-12	May-12	Mar-12	Mar-11	Mar-11	CWCB Meeting			
\$46,100	\$79,000		\$455,947	\$100,000	\$42,726	\$15,854	\$20,000	\$17,500	\$60,000	\$30,000	\$46,894	\$29,700	\$18,273	\$50,000	\$25,000		\$25,000	\$25,000		6010,440	\$64,300	\$9,394	\$50,000	\$30,000	\$9,746	\$20,000	\$25,000	\$20,000	\$35,000	\$12,000	\$0	\$35,000	Basin Account Approved			
\$0	\$230,000		\$1,493,384	\$400,000	\$207,274	\$288,610	\$90,000	\$332,500	\$0	\$ 0	\$ 0	\$0	\$0	\$175,000	\$0		\$700,000	\$700,000		\$1,000,700	\$0	\$37,577	\$22,500	\$75,000	\$0	\$39,215	\$136,345	\$100,000	\$ 0	\$727,235	\$225,837	\$290,000	Statewide Amount Approved			
\$46,100	\$309,000		\$1,949,331	\$500,000	\$250,000	\$304,464	\$110,000	\$350,000	\$60,000	\$30,000	\$46,894	\$29,700	\$18,273	\$225,000	\$25,000		\$725,000	\$725,000		\$1,504,145	\$64,300	\$46,971	\$72,500	\$105,000	\$9,746	\$59,215	\$161,345	\$120,000	\$35,000	\$739,235	\$225,837	\$325,000	Total Request			
Nonconsumptive	Agricultural			Nonconsumptive	Nonconsumptive	Nonconsumptive	Nonconsumptive	Nonconsumptive	Agricultural	Needs Assessment	Agricultural	Education	Agricultural	Municipal & Industrial	Needs Assessment			Municipal & Industrial			Municipal & Industrial		Agricultural	Nonconsumptive	Education	Agricultural	Other	Municipal & Industrial		Municipal & Industrial	Agricultural	Nonconsumptive	Type of Water Activity			Updated 9/5/2013
12IBC000002	C150414			C150518	C150513	C150520	C150506	CC150523	13IBC000014	13IBC000003	12IBC000019	12IBC000018	12IBC000001	C150494	8000000049			C150456			14IBC000006	13IBC000024	C150515	150521	C13IBC000025	13IBC000017	C150505	C150504	13IBC000018	C150502	C150490	C150507	Number			2013
6/30/15	8/22/13			8/31/15	1/30/17	1/31/17	6/30/14	7/31/15	1/31/15	12/31/13	4/30/16	6/30/14	6/30/14	12/31/13	3/31/14			9/30/14			12/31/13	12/31/15	4/16/14	6/1/14	12/31/13	1/31/15	9/1/14	12/31/13	3/31/15	12/31/13	12/31/13	1/15/14	Project Expiration Date	1000		

ATTACHME ABasin Applicant Gunnison Leroux Cre Association Gunnison Upper Gun Conservan Gunnison Colorado N Gunnison Colorado N Gunnison Delta Cons Gunnison Delta Cons Gunnison Leon Park Gunnison Leon Park Gunnison Lake Fork N Umber of Projects Number South Metro South Metro	assin Applicant Leroux Creek Water Users Association (LCWUA) Upper Gunnison River Water Conservancy District (URRWCD) unnison Colorado State University unnison Delta Conservation District unnison Delta Conservation District unnison Leon Park Reservoir Company unnison Leon Park Reservoir Company unnison Lake Fork Water Conservancy District unnison Basin Total Request 9 South Metro Water Supply		CWCB Meeting Jul-10 Mar-11 Sep-11 Mar-12 May-12 Jul-12 Mar-13	Basin Account Approved \$50,000 \$24,500 \$77,000 \$19,750 \$71,372 \$28,975 \$376,887	Statswide Amount Approved \$0 \$98,000 \$35,000 \$35,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Total Request \$50,000 \$122,500 \$112,000 \$119,750 \$20,000 \$20,000 \$20,000 \$20,000	Type of Water Activity Agricultural NONE Agricultural Education Other Agricultural Agricultural Agricultural Agricultural	5/2013 Number 1100000068 C150497/C150522 C150499 12/BC000020 13/BC000007 13/BC000002 C150521 C150474
Metro	South Metro Water Supply Authority	Aquifer Recharge Pilot Study	Sep-09	\$0	\$550,000	\$550,000	Municipal & In	dustrial
Metro Metro	Douglas County Water Resource Authority Rural Water Authority of Douglas	Rotary Sprinkler Nozzle Retrofit Rural Douglas County groundwater-level monitoring	Sep-10 Sep-10	\$0 \$28,263	\$250,000 \$84,792	\$250,000 \$113,055	Municipal & Industrial Municipal & Industrial	dustrial dustrial
Metro Basin Total Request	County Request	network	ı	\$28,263	\$884,792	\$913,055	Ī	
North Platte	JSFS	Effects of Mtn pine beetle and forest mgmt on water quantity, quality, and forest recovery N.P. and Upper CO	Sep-08	\$212,306	\$164,618	\$376,923	Other	
North Platte	Colorado Climate Center-CSU	Monitoring the effects of weather conditions on the evaportranspiration in N.P. Basin	Sep-08	\$50,409	\$50,409	\$100,818	Agricultural	
North Platte	Ducks Unlimited, Inc.	North Park Irrigated Meadow Conservation Program - Phase I	May-10	\$20,000	\$0	\$20,000	Nonconsumptive	
North Platte	Loban, Hackleman and Olsen LLC	Seneca Ditch - Structure for Water Control	Jul-12	\$57,539	\$ 0	\$57,539	2	
North Platte Basin Total Request	Total Request	Chacing to Male Colling	way-10	\$382,194	\$215,027	\$597,220) Girdinia	
Number of Projects	ts 5							
Rio Grande	Lower Willow Creek Restoration Company	Lower Willow Creek Restoration Project	Sep-09	\$50,000	\$200,000	\$250,000	Nonconsumptive	Φ
Rio Grande	Colorado Rio Grande Restoration Foundation	2009 Rio Grande Riparian Stabilization Project - Phase 4	May-10	\$50,000	\$0	\$50,000	Nonconsumptive	v
Rio Grande	Colorado Rio Grande Restoration Foundation	McDonald Ditch - Plaza Project - Phase 2	Sep-11	\$20,000	\$275,000	\$295,000	Nonconsumptive	σ
Rio Grande	Terrace Reservoir Irrigation Company, Inc.	Terrace Reservoir Spillway Replacement	Mar-12	\$75,000	\$1,425,000	\$1,500,000	Agricultural	
Rio Grande	Conejos Water Conservancy District	Conejos River System Gauging Stations Project	Mar-12	\$20,000	\$387,280	\$407,280	Agricultural	
Rio Grande	Rio Grande Headwaters Land Trust	Rio Grande Initiative: Haywood Ranch Conservation Easement	Sep-12	\$25,000	\$400,000	\$425,000	Agricultural	
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	
Rio Grande Colorado Po Committee (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	
Number of Projects	∞ ∞							
South Platte South Platte	Ducks Unlimited, Inc. Ducks Unlimited, Inc.	Weld County School Dist RE1 Wetland Partnership S.P. Water protection and restoration	Jul-08 Sep-08	\$42,110 \$0	\$0 \$825,552	\$42,110 \$825,552	Nonconsumptive Nonconsumptive	ve e
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	



			\$553.540	\$162.978	\$390.562		vvorksnops lours	Yampa/White Basin Total Request	Yampa/White Ba
11/30/15	14IBC000008	Education	\$30,000	\$0	\$30,000	Jul-13	Development & Implementation of Water Education & Networking 3 year Program of Discussions, Forums,	Community Agriculture Alliance, Inc.	Yampa/White
12/31/13	13IBC00000015		\$12,500	\$0	\$12,500	Jan-13	Rangely Irrigation System Master Plan Study	Town of Rangely	Yampa/White
12/31/13	ISIBCOOOOO	Nonconsumptive	\$50,000	9 8	\$50,000	oeb-11	rampa River Structures Project	The Flielius of the rampa	rampa/vrinte
10/01/10	0.0040	Carrie	9 6 70 00 00	9 0,000	9 60 00		Variable Prince Desired Projects and Incarded Principals	The Friends of the Western	Yampa willo
12/31/13	C150481	Other	\$190,000	\$152 000	\$38,000	Mar_11	Vamna-White Rasin Drojects and Methods Analysis	Moffat County	Vampa/Mhite
900	11000000000	Agricultul al	\$20,870	\$10,970	610,000	0	improverient or Lysineter Operations and Consumptive Use Quantification in High-Altitude, Irrigated Meadows in the Yampa (White Basin	Colorado Cilinate Center—Coo	Tallipa/Willie
6/30/15	11000000058	> 0 	\$20 079	£10.078	\$10,000	Sp. 10	Improvement of Licinoter Operation and Consumption	Colorado Climato Center CSII	VampaMhita
8/20/15	C150469	Agricultural	\$189,000	\$0	\$189,000	Sep-09	upgrades Stillwater Reservoir Seepage Project	Bear River Reservoir Company	Yampa/White
6/30/14	900000090	Municipal & Industrial	\$61,062	\$0	\$61,062	Sep-08	Town of Yampa Water Facilities Plan and storage tank	Town of Yampa	Yampa/White
								cts 7	Number of Projects
			\$874,563	\$723,163	\$151,400			Total Request	Southwest Basin Total Request
12/31/13	13IBC000023	Agricultural	\$14,500	\$0	\$14,500	Mar-13	Amimas River Diversion Headgate Montoring Study	Animas Consolidated Ditch Company	Southwest
12/31/13	13IBC000021	Municipal & Industrial	\$20,000	\$0	\$20,000	Jan-13	Animas Airpark Water Distributution System	Animas Airpark Property Owners Association	Southwest
9/30/13	13IBC000009	Agricultural	\$19,400	\$0	\$19,400	Sep-12	Red Mesa Dam & Reservoir – Spillway Alternatives Analysis	Red Mesa Dam & Reservoir Company	Southwest
12/31/14	13IBC000012	Agricultural	\$52,500	\$ 0	\$52,500	Sep-12	Improved Water User, Conservation, Management and Operations through the Implementation of Water Accounting Software	Montezuma Valley Irrigation Company	Southwest
3/1/15	C150511	Nonconsumptive	\$119,340	\$99,340	\$20,000	Sep-12	Mancos River Habitat and Diversion Project - Phase 2	Mancos Conservation District	Southwest
3/31/14	C150517	Municipal & Industrial	\$500,000	\$475,000	\$25,000	Sep-12	Construction of Municipal Water Distribution Pipeline and Related Facilities	La Plata Archuleta Water District	Southwest
12/31/13	C150477	Agricultural	\$148,823	\$148,823	\$0	Mar-11	La Plata River Water Resources Operations Model	La Plata Water Conservancy District	Southwest
								cts 1	Number of Projects
			\$500,000	\$300,000	\$200,000			South Platte/Metro Basin Total Request	South Platte/Met
12/13/13	C150509	Nonconsumptive	\$500,000	\$300,000	\$200,000	Sep-12	Denver South Platte River Implementation Project - Frontier/Overland Final Design	The Greenway Foundation	South Platte/Metro
								cts 7	Number of Projects
			\$1,578,980	\$1,420,909	\$158,071			in Total Request	South Platte Basin Total Request
8/31/14	13IBC000004	Nonconsumptive	\$65,000	\$30,000	\$35,000	Sep-11	South Platte River Phreatophyte Control Pilot	Ducks Unlimited, Inc.	South Platte
5/31/14	C154209	Other	\$200,000	\$200,000	\$0	Mar-11	Alluvial Aquifer Accretion/Depletion Analysis Tool	Division of Water Resources	South Platte
9/30/13	12IBC00023	Nonconsumptive	\$85,421	\$85,421	\$0	Sep-10	Development of Decision Support Model for Identifying & Ranking Waterfow and Wildlife Related Recharge Projets along the South Platte River	Ducks Unlimited, Inc.	South Platte
6/30/14	C150476	Agricultural	\$260,977	\$200,000	\$60,977	Sep-10	Lower South Platte Water Cooperative Organizational Analysis	Lower South Platte Water Conservancy District	South Platte
Expiration Date	Number	Type of Water Activity	Request	Approved	Approved	Meeting	Name of Water Activity	Applicant	
Project			Total	Statewide Amount	Basin Account	СМСВ			ATTACHN
	Updated 9/5/2013	Update					TS	WSRA IN PROGRESS PROJECTS	
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Number of Projects

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Basin	Applicant	Name of Water Activity	Meeting	Approved	Approved	Request	Type of Water Activity	Number	Expiration Date	Final Date Closed
Arkansas	Southeastern Colorado Water Activity Enterprise	Arkansas Valley Conduit		\$64,300	\$0	\$64,300	Municipal & Industrial	C150406		
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	City of Las Animas	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	City of Pueblo	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	Purgatorie 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 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	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	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	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 Basi	Arkansas Basin Total Request			\$1,247,411	\$2,670,802	\$3,918,213				
Number of Projects	ojects 24									
Arkansas/Colora do/Gunnison/No rth Platte/Rio Grande/Southw est/South	ra Pikes Peak Regional Water to Authority w	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/	rrado/Gunnison/North Platte/Rio Grande/S ojects 1	Arkansas/Colorado/Gunnison/North Platte/Rio Grande/Southwest/South Platte/Metro Basin Total Request Number of Projects	ı	\$23,000	\$50,004	\$73,004				
Tallibor of the	Jeco									

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Arkansas/Metro	Basin	WSRA CO
El Paso County Water Authority	Applicant	WSRA COMPLETED PROJECTS
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Rio Grande	Rio Grande	Rio Grande	Number of Projects	North Platte Basin Total Request	North Platte	Notification	North Tlatte	North Platte	North Platte	North Platte	North Platte	Number of Projects	Metro Basin Total Request	Metro	Metro	Metro	Metro	Metro	Metro	Metro	Number of Projects	Gunnison Basin Total Request	Gunnison	Gunnison	Gunnison	Gunnison	Gunnison	Gunnison	Gunnison	Gunnison	Gunnison	Gunnison	Basin	
Colorado Rio Grande Restoration Foundation	San Luis Valley Irrigation District	El Paso County Water Authority	s 7	Total Request	Jackson County Water Conservancy District	Conservancy District	Education Letter Court Wife.	Walden Reservior Company	Colorado State University	Town of Walden	Silver Spur Land & Cattle	s 7	Request	Colorado Foundation for Water Education	Douglas County Water Resource Authority	The Greenway Foundation	South Metro Water Supply Authority	Parker Water and Sanitation District	East Cherry Creek Valley Water and Sanitation District	The Greenway Foundation	s 18	tal Request	Upper Gunnison Water Conservancy District and Hinsdale County	North Delta Irrigation Company	Grand Mesa Reservoir Company	Painted Sky Resource Conservation and Development Council, Inc.	Gunnison Gorge Anglers - Trout Unlimited	Valley View Irrigation Association	City of Ouray	Painted Sky Resource Conservation and Development Council, Inc.	Enterprise Fund	Town of Ridgway	Applicant	
Rio Grande Basin Conservation Reserve Enhancement Program	Preliminary Design Multi-use Rio Grande Reservoir Rehabilitation and Enlargement	Alamosa River In-stream Flow Project			Structures for Water Control: Headgates and Diversion - Additional Funds Request	Sincines of water control freadyates and Diversion	North Platte Basin education package Structure for Water Destroit Landerton and Discosion	Structure for Water Control	Identification and assessment of important wetlands in N.P. River watershed	Town of Walden Water Supply Improvement Project	New Pioneer Ditch Diversion Reconstruction Project			Educating Denver Metro elected officials and decision makers on solutions-oriented water supply planning	Feasibility Study for Bureau of Reclamation Funding from the National Rural Water Supply Act	South Platte River Recreation and Habitat Feasibility Study	South Metro Water Supply Authority - Regional Aquifer Supply Assessment	Parker Water & San. & CO. State Univ Joint Project on the Rural/Urban Farm Model	Zero Liquid Discharge Pilot Study	Chatfield Reallocation EIS/FR (South Platte BRT contributing \$27,000)			Lake San Cristobal Controlled Outlet Structure	Tunnel Reconstruction Project	Lining Outlet for Grand Mesa Reservoir #6	Hartland Diversion Dam — Partial Dam Removal and Stabilization	Relief Ditch Diversion Dam Design	Valley View Irrigation Improvement	Development of Augmentation Supplies	Hartland Diversion Dam Fish Passage Feasibility Study	Juniata Reservoir Spiliway Modification	Ridgway Ditch and Lake Otonawanda Improvement Project	Name of Water Activity	
May-07	Mar-07	Mar-07			May-12	- G	S 3	Jan-11	Sep-08	Jul-08	Mar-08			Jan-11	Sep-09	Sep-08	Jul-08	Sep-07	Sep-07	Mar-07			Jul-13	Mar-12	Nov-11	Sep-11	May-11	Mar-11	May-09	May-09	Mar-09	Mar-09	Meeting	сwсв
\$36,750	\$0	\$64,500		\$820,923	\$55,055	\$120,020	2,000	\$36,000	\$86,000	\$385,000	\$116,000		\$818,360	\$14,820	\$100,000	\$150,000	\$100,540	\$150,000	\$200,000	\$103,000		\$699,055	\$40,000	\$40,000	\$19,840	\$ 0	\$20,650	\$0	\$50,000	\$22,100	\$97,000	\$109,500	Approved	Basin Account
\$0	\$288,000	\$0		\$96,000	\$0	6	9 6	\$0	\$96,000	\$0	\$0		\$700,000	\$0	\$500,000	\$ 0	\$0	\$ 0	\$200,000	\$0		\$1,421,770	 \$ 0	\$690,110	\$0	\$ 0	\$ 0	\$0	\$0	\$0	80	s (s)	Approved	Statewide Amount
\$36,750	\$288,000	\$64,500		\$916,923	\$55,055	\$120,020	4, c,	\$36,000	\$182,000	\$385,000	\$116,000		\$1,518,360	\$14,820	\$600,000	\$150,000	\$100,540	\$150,000	\$400,000	\$103,000		\$2,120,825	\$40,000	\$730,110	\$19,840	\$0	\$20,650	\$0	\$50,000	\$22,100	\$97,000	\$109,500	Request	Total
Agricultural	Agricultural	Nonconsumptive				Agricultural	Agicultural	Agricultural	Nonconsumptive	Municipal & Industrial	Agricultural			Education	Municipal & Industrial	Nonconsumptive	Municipal & Industrial	Municipal & Industrial	Municipal & Industrial	Municipal & Industrial			Municipal & Industrial	Agricultural	Agricultural	Nonconsumptive	Agricultural	Agricultural	Municipal & Industrial	Nonconsumptive	Municipal & Industrial	Municipal & Industrial	Type of Water Activity	
8000000006	C150402	7000000076			C150488	00000	0150488	11000000087	C150433	C150431A	C150421			11000000083	C150470	C150442	C150430	C150413	C150412				8000000021	C150498	12IBC000022	12IBC000008	12IBC0000004	11000000127	10000000041	900000144	88000000	C150455	Number	
	6/30/10				12/31/13	200	0/30/12	11/30/11	6/30/10	9/30/11	12/31/09			6/30/12	6/30/13	6/30/10	12/31/09	12/31/09						4/1/13	12/31/12	3/31/12	6/30/12	12/31/11	6/30/11	6/30/10	6/30/10	6/30/11	Expiration Date	Project
	6/30/10	6/30/08			12/10/12	12/10/12	42/40/42	11/7/11	6/30/10	9/30/11				4/30/12	6/30/13	6/30/10	12/31/10	10/2/09	1/8/09					4/1/13	11/13/12	3/31/12	6/30/12	7/26/11	6/30/11	1/25/10	12/15/09	6/30/11	Final Date Closed	1937

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6/30/12	6/30/12	C150454	Nonconsumptive	\$150,000	\$0	\$150,000	Mar-09	Central South Platte Wetland Partnership	Ducks Unlimited, Inc.	South Platte
6/30/10	6/30/10	C150436	Municipal & Industrial	\$101,740	\$76,305	\$25,435	Sep-08	Halligan Seaman Water Mgmt project share vision	City of Greeley	South Platte
6/28/11	6/30/11	80000000120	Agricultural	\$48,800	\$0	\$48,800	Jan-08	Stage Discharge Data Loggers and Telemetry	Northern Colorado Water Conservancy District	South Platte
7/31/09	7/31/09	C150415	Nonconsumptive	\$278,476	\$278,476	\$0	Sep-07	Lower South Platte Wetland Initiative Phase I South Platte River, CO	Ducks Unlimited, Inc.	South Platte
4/13/12	12/31/11	C150417	Agricultural	\$176,000	\$0	\$176,000	Sep-07	Ovid Reservoir Comprehensive Feasibility Study	District 64 Reservoir Company	South Platte
		C8000000037	Municipal & Industrial	\$52,000	\$0	\$52,000	May-07	Clear Creek Water Banking/High Altitude Storage	Clear Creek County	South Platte
			Municipal & Industrial	\$27,000	\$0	\$27,000	Mar-07	Chatfield Reallocation EIS/FR (Metro BRT contributing	The Greenway Foundation	South Platte
									octs 25	Number of Projects
				\$4,353,251	\$3,092,400	\$1,260,851			n Total Request	Rio Grande Basin Total Request
6/30/13	10/31/13	13IBC000016	Education	\$33,237	\$ 0	\$33,237	Jan-13	Solicitation of Stateholders Input & Advice through publication of a Rio Grande Edition of Headwaters Magazine	Colorado Foundation for Water Education	Rio Grande
12/31/12	12/31/13	13IBC000008	Other	\$99,564	\$0	\$99,564	Jul-12	Rio Grande County Hydrogeologic Study	Rio Grande County	Rio Grande
12/19/12	12/31/12	12IBC000017	Education	\$15,600	\$0	\$15,600	Nov-11	Water 2012: The Rio Grande Basin Partnering for Colorado's Water Future	Rio Grande Watershed Conservation and Education Initiative	Rio Grande
6/13/12	7/31/12	12IBC000013	Agricultural	\$95,000	\$85,000	\$10,000	Sep-11	Sanchez Reservoir Rehabilitation - Phase I Assessment &	Sanchez Ditch & Reservoir	Rio Grande
10/20/12	12/31/12	C150495	Agricultural	\$150,000	\$135,000	\$15,000	Sep-11	Platoro Reservoir Crest of Dam Repair	Conejos Water Conservancy	Rio Grande
12/30/11	12/30/11	C150489	Nonconsumptive	\$70,000	\$55,000	\$15,000	Mar-11	Rio Grande Initiative: North Rio Grande Ranch Conservation Easement	Rio Grande Headwaters Land Trust	Rio Grande
12/22/11	12/31/11	11000000102	Agricultural	\$40,000	\$0	\$40,000	Jan-11	The McDonald Ditch and Plaza Project, Phase I Planning	Colorado Rio Grande Restoration Foundation	Rio Grande
6/25/12	6/30/12	11000000109	Agricultural	\$75,000	\$0	\$75,000	Jan-11	Conejos North Branch Water Conservation and Management	Manassa Land and Irrigation Company	Rio Grande
9/7/11	6/30/11	11000000053	Agricultural	\$40,000	\$0	\$40,000	May-10	San Luis Peoples Ditch Upgrade and Rehabilitation Project - Phase I	San Luis Peoples Ditch Company	Rio Grande
10/17/11	6/30/12	11000000059	Education	\$25,000	\$ 0	\$25,000	May-10	Educating Today to Balance Tommorow's Water Supplies & Needs	Rio Grande Watershed Conservation and Education Initiative	Rio Grande
7/31/12	7/31/11	C150458	Agricultural	\$54,000	\$0	\$54,000	Jan-10	Shortfall Request - Sangre de Cristo Trinchera Diversion Canal Restoration	Trinchera Irrigation Company	Rio Grande
			A self-self-self-self-self-self-self-self-		3		- (Foundation	
10/22/10	7/31/11 12/31/12	C150458	Agricultural Agricultural	\$250,000 \$31,500	\$200,000 \$0	\$50,000 \$31,500	Sep-09	Sangre de Cristo Trinchera Diversion Canal Restoration Conservation Reserve CREP Phase II	Trinchera Irrigation Company Colorado Rio Grande Restoration	Rio Grande
12/8/09	12/31/09	1000000001	Agricultural	\$65,000	\$0	\$65,000	May-09	San Antonio River - El Codo Ditch Diversion and Rehabilitation	El Codo Ditch Company	Rio Grande
12/21/11	12/31/11	C150437A	Agricultural	\$100,000	\$ 0	\$100,000	Nov-08	Rio Grande Reservoir Multi-Use Rehabilitation: Refinement and Enhancement of Reservoir Reoperation and Optimization Model	San Luis Valley Irrigation District	Rio Grande
6/30/10	6/30/10	C150446	Agricultural	\$383,700	\$333,700	\$50,000	Sep-08	Conejos River and North Branch Diversion and Stabilization	Manassa Land and Irrigation Company	Rio Grande
2/3/11	6/30/11	C150448	Agricultural	\$250,000	\$200,000	\$50,000	Sep-08	Platoro Reservoir Restoration	Conejos Water Conservancy District	Rio Grande
12/31/12	12/31/12	C150452	Nonconsumptive	\$285,000	\$250,000	\$35,000	Sep-08	2008 Rio Grande Riparian Stabilization Project	Colorado Rio Grande Restoration Foundation	Rio Grande
6/30/12	6/30/12	C150443	Agnoultural	\$213,700	\$141,700	\$72,000	Sep-08	Santa Mana and Continental Reservoirs: Renabilitation and Multiple Use Studies	Santa Mana Reservoir Company	Rio Grande
		C150420	Nonconsumptive	\$1,500,000	\$1,300,000	\$200,000	Mar-08	Rio Grande Initiative	Rio Grande Headwaters Land Trust	Rio Grande
9/17/08		8000000060	Agricultural	\$83,700	\$0	\$83,700	Sep-07	Romero-Guadalupe Channel Rectification Project	Romero Irrigation Company	Rio Grande
Tillal Date Closed	Expiration Date	C150419	Other	\$104,000	\$104,000	\$0	Sep-07	Alamosa River Watershed Restoration Project	San Luis Valley Resource Conservation and Development Council	Rio Grande
1937	Project			Total	Statewide Amount	Basin Account	СМСВ	None and Market Australia		ATT
N BOARD	COLORAA									ACHM
CONSERVED	00	5/2013	Updated 9/5/2013						WSRA COMPLETED PROJECTS	
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				\$710,737	990,000	\$611,902			Number of Projects	Number of Projects
				1100	200	200		Watershed Flow Evaluation Tool	Colorado	Vanna Militaria I
6/30/12	6/30/12	C150466	Nonconsumptive	\$169,002	\$0	\$169,002	Jan-10	Yampa White Basin Nonconsumptive Needs Assessment	The Nature Conservancy of	Yampa/White
	6/30/13	C150472	Agricultural	\$220,800	\$ 0	\$220,800	Jan-10	Yellow Jacket Water Storage Feasibility Study	Colorado River Water Conservation District	Yampa/White
12/31/10	6/30/11	10000000046	Education	\$10,000	\$0	\$10,000	Sep-09	Development and Implementation of Water Forums, Workshop, and/or Tours	Community Agriculture Alliance, Inc.	Yampa/White
6/30/10	6/30/10	10000000050	Education	\$20,000	\$ 0	\$20,000	Sep-09	Headwaters Magazine - January 2010	Colorado Foundation for Water Education	Yampa/White
6/8/11	6/30/11	C150435	Municipal & Industrial	\$118,835	\$98,835	\$20,000	Sep-08	Sandwash basin coalbed methane production depletive effects on water resources	Moffat County	Yampa/White
	12/31/08	9000000039	Agricultural	\$16,000	\$0	\$16,000	Jul-08	Sparks Reservoir	Vermillion Ranch	Yampa/White
12/29/10	6/30/10	C150423	Other	\$106,600	\$0	\$106,600	Jan-08	Common Data Repository	City of Steamboat Springs	Yampa/White
12/31/10	12/31/10	C150418	Needs Assessment	\$0	\$0	\$0	Jan-08	Agricultural Water Needs Assessment	Moffat County	Yampa/White
	3/31/08	8000000058	Municipal & Industrial	\$49,500	\$0	\$49,500	Jul-07	Morrison Creek Reservoir Feasibility Study	Upper Yampa Water Conservancy	Yampa/White
									ects 30	Number of Projects
				\$3,947,211	\$2,750,000	\$1,197,211			Southwest Basin Total Request	Southwest Basi
3/16/12	6/30/12	11000000122	Municipal & Industrial	\$100,000	\$80,000	\$20,000	Mar-11	Town of Rico Alluvium Pipeline Water Supply Project - Well Drilling and Water Quality Testing	Town of Rico	Southwest
6/30/12	6/30/12	12IBC000003	Agricultural	\$0	\$0	\$ 0	Mar-11	Groundhog Reservoir Bathymetric Survey	Montezuma Valley Irrigation Company	Southwest
6/30/13	7/31/13	13IBC000002	Municipal & Industrial	\$30,000	\$0	\$30,000	Nov-10	Aspen Springs Metro Water Filling Station	Aspen Springs Metro District	Southwest
6/11/12	8/31/12	12IBC000014	Agricultural	\$25,000	\$0	\$25,000	Nov-10	La Plata Cherry Creek Ditch Headgate Improvement Project	La Plata River and Cherry Creek Ditch Company	Southwest
10/21/11	12/31/11	12IBC000005	Nonconsumptive	\$25,000	\$ 0	\$25,000	Nov-10	Recreational Plan for Lake Nighthorse	Animas La Plata Water Conservancy District	Southwest
3/16/12	12/31/12	1218C0000011	Nonconsumptive	\$25,000	8 6	\$25,000	Nov-10	A Way Forward: I ne Dolores River Below McPnee Reservoir	San Juan Citizens Alliance	Southwest
12/26/11	12/31/11	10000000114	Agricultural	\$28,500	8 8	\$29,500	. NOV-	ionen keservoir nydrograpino survey	District	Ooutnwest
12/28/11	12/31/11	110000000114	Agricultural	\$20 A00	? 5	\$20 A00	Nov-10	Totten Reservoir Hydrographic Survey	Dolores Water Conservancy	Southwest
6/30/13	6/30/13	C150475	Agricultural	\$775,000	\$775,000	\$0	Sep-10	Canal Seepage Reduction Program	Florida Mesa Canal Companies (Florida Canal, Florida Farmers Ditch, Florida Enlargement Ditch, and the Florida Co-operative Ditch Company)	Southwest
6/30/11	6/30/11	10000000085	Municipal & Industrial	\$58,458	\$0	\$58,458	Jan-10	Raw Water System Update and Future Needs Study	Town of Norwood	Southwest
6/30/11	6/30/11	C150463	Agricultural	\$225,000	\$225,000	\$	Nov-09	Canal Seepage Reduction Project	Florida Mesa Canal Companies (Florida Canal, Florida Farmers Ditch, Florida Enlargement Ditch, and the Florida Co-operative Ditch Company)	Southwest
Final Date Closed	Project Expiration Date	Number	Type of Water Activity	Total Request	Statewide Amount	Basin Account	CWCB	Name of Water Activity	Applicant	ATTACHM
A CONSTRUCTION		5/2013	Updated 9/5/2013						WSRA COMPLETED PROJECTS	
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