COLORADO

Colorado Water Conservation Board

Department of Natural Resources

DIRECTOR'S REPORT

January 2019

Interstate Compact Compliance • Watershed Protection • Flood Planning & Mitigation • Stream & Lake Protection
Water Project Loans & Grants • Water Modeling • Conservation & Drought Planning • Water Supply Planning

STATE OF COLORADO

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

TO: Colorado Water Conservation Board Members

FROM: Rebecca Mitchell
Andrew Rickert

DATE: January 28-29, 2019

SUBJECT: **Agenda Item 5d, January 2019 CWCB Board Meeting Director's Report**

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~STATEWIDE~

CWCB SMALL FEASIBILITY STUDY GRANT FUND UPDATE—
New grant applications approved:

1. Left Hand Water District – Dry Creek Reservoir Expansion ($25,500)
2. Lower Arkansas Water Management Association – West Farm Gravel Pit ($9,500)

Previously approved grants in FY18/19:

1. Logan Irrigation District – Prewitt Reservoir Rehabilitation ($29,512)
2. Town of Oak Creek – Sheriff Dam Rehabilitation ($30,250)
3. Silt Water Conservancy District – Harvey Gap Reservoir Upgrades ($13,400)
4. Evergreen Metro District – Evergreen Dam Evaluation ($50,000)

Total funds approved for feasibility study grants in FY18/19: $158,162.00.(*Anna Mauss*)

WATERS OF THE U.S.— On December 11, 2018, the Environmental Protection Agency and the Army Corps of Engineers proposed a revised definition of "waters of the United States." Commonly referred to as "WOTUS," the proposed definition establishes the scope of federal authority and jurisdiction under the Clean Water Act. CWCB staff is participating in an analysis of the rule through an interagency work group consisting of the Department of Natural Resources' Executive Director's Office, the Division of Water Resources, Colorado Parks and Wildlife, Colorado Department of Agriculture, and the Colorado Department of Public Health and the Environment. The proposed WOTUS rule is available at https://www.epa.gov/wotus-rule/step-two-revise. The agencies will be accepting public comment on the rule for 60 days after publication in the Federal Register. (*Carlee Brown*)

~PLATTE RIVER BASIN~

PLATTE RIVER RECOVERY IMPLEMENTATION PROGRAM — The Governance Committee of the Platte River Recovery Implementation Program (Program or PRRIP) met on December 10 in Denver. The group discussed the strategy for congressional reauthorization of the Program in 2019. Draft legislation that was shared with the three PRRIP partner states congressional delegations in 2018 will be reviewed with the incoming administration in preparation for introduction this year, in coordination with the partner states' shared congressional delegation. CWCB staff is working closely with DNR staff to facilitate this process. (*Carlee Brown)*

~COLORADO RIVER BASIN~

GLENWOOD SPRINGS RICD— CWCB and the Attorney General's Office have been developing amended Findings of Fact for the Glenwood Springs Recreational In Channel Diversion (RICD) water rights application (Case No. 13CW3109) as instructed by the Board at the November 2018 Board meeting. The amended findings are mostly complete with the exception of issues concerning the Horseshoe Bend site. CPW has concerns with the potential development at this site as it holds ecological value for native big horn sheep and fish due to its remote location.

CPW is currently in discussions with Glenwood Springs regarding the site.Amended findings will be completed for Board reviewafter an agreement between the two parties has been reached. (*Erik Skeie, Carlee Brown*)

COLORADO RIVER WATER USE—

2018 Colorado River Storage as of January 14th, 2019			
	Elevation (feet above mean sea level)	Storage (MAF)	Percent of Capacity
Lake Mead	1,083.35	10.290	39%
Lake Powell	3,579.02	9.856	41%
Total System Active Storage		26.967	45%
2018 Total Active Storage		32.011	54%
		Flow (MAF)	Percent of Average
Forecasted Unregulated Inflow into Powell (Forecasted Water Year 2019)		6.980	64%

Forecasted CY 2018 Lower Basin Consumptive Use			
State		Use (MAF)	Total (MAF)
Arizona		**2.644**	
California			
California Agricultural	3.360	**4.259**	**7.145**
Metro. Water District	0.883		
Other	0.016		
Nevada		**0.242**	

*****Note MAF = million acre-feet

ENVIRONMENTAL WATER TRANSACTIONS IN THE COLORADO RIVER BASIN — In November 2018, the Stanford Woods Institute for the Environment issued a report entitled "Environmental Water Transactions in the Colorado River Basin: A Closer Look." This report is a follow-up to the Institute's 2017 "Colorado River Basin Environmental Transfers Scorecard," which ranked the Basin states based upon their levels of clear legal authorization for environmental water transfers, scope of environmental water rights, protection of environmental water rights, and processes for approving environmental water transfers. The Scorecard ranked Colorado highest among the Basin states based upon these factors. The 2018 report reviewed environmental water transactions in five states in the Colorado River Basin: Arizona, Colorado, New Mexico, Utah and Wyoming. That review indicated that irrigators and conservation groups are increasingly using short term transactions that do not require changes of water rights, such as temporary leases and non-diversion agreements. These flexible approaches allow irrigators to make temporary deals that benefit them economically while ensuring the security of their water rights. The 2018 Report and 2017 Scorecard can be found at: http://waterinthewest.stanford.edu/publications/environmental-water-transactions-colorado-river-basin

~ WATER CONSERVATION AND DROUGHT PLANNING UPDATES ~

CWCB WATER EFFICIENCY GRANT FUND PROGRAM (WEGP) UPDATE—

Two grant applications have been received since the November 2018 Director's Report

- **City of Evans** – Water Efficiency Plan Update
- **Town of Eagle -** Water Efficiency Plan Update

Two grants were approved since the November 2018 Director's Report:

- **City of Alamosa** – Water Efficiency Plan Update ($29,969)
- **Town of Firestone** – Drought Management Plan ($30,000)

The following are deliverables sent to the CWCB since the last Director's Report:

- **Resource Central (Center for Resource Conservation) –**Turf Removal Pilot Project – *Final Report*
- **City of Lafayette** – City Hall Fixture Replacement Program – *Final Report*
- **City of Eaton –** Water Efficiency Plan – *50% Progress 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:

Colorado Drought Mitigation and Response Plan: Per FEMA requirements this updated plan was approved by the CWCB Board at the September 2018 meeting and has been integrated into the State's All Hazard Mitigation Plan, the All Hazard Mitigation Plan will be sent to the Governor for approval in the fall and to FEMA following that.

DROUGHT MANAGEMENT PLANS:

Approved Plans

- No Drought Management Plans have been approved since the September Board Meeting

Drought Management Plans In Review:

- No Plans in Review

WATER EFFICIENCY PLANS:

Approved Plans:

- Thornton

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.

- Lafayette
- East Cherry Creek Valley Water & Sanitation District
- Pinery
- St. Charles Mesa Water District

Water Efficiency Plans in Review:

- Widefield Water & Sanitation District
- North Weld County Water District

- City of Evans
- Cortez

(*Kevin Reidy & Ben Wade*)

GOVERNOR'S WATER AVAILABILITY TASK FORCE— There will be a Water Availability Task Force meeting will be on January 22nd from 9:30am-11:30am at the Colorado Parks & Wildlife Headquarters 6060 Broadway, Denver, CO. Please check the website (http://cwcb.state.co.us/public-information/flood-water-availability-task-forces/Pages/main.aspx) for additional information. *(Ben Wade)*

DROUGHT UPDATE— As a result of the persistent drought conditions throughout parts of Colorado, *Governor Hickenlooper activated the State Drought Response Plan for the agricultural sector in 40 Colorado Counties.* This activation remains in effect for Montezuma, La Plata, Archuleta, Conejos, Costilla, Las Animas, Baca, Prowers, Bent, Otero, Huerfano, Alamosa, Rio Grande, Mineral, Hinsdale, San Juan, Dolores, San Miguel, Ouray, Montrose, Saguache, Custer, Pueblo, Crowley, Kiowa, Cheyenne, Lincoln, El Paso, Elbert, Gunnison, Mesa, Delta, Garfield, Rio Blanco, Pitkin, Eagle, Summit, Grand, Moffat & Routt counties until deactivated by the Governor. The USDA has issued primary secretarial drought designations for 47 counties in the state, and contiguous designations for an addition 10 counties.

Snowpack, as of January 6th is 91 percent of normal, however the areas of the state most heavily impacted by persistent drought in the southwest, also have the lowest snowpack in the state. The San Miguel, Dolores, Animas & San Juan combined basins have 68 percent of normal- the lowest in the state. Neighboring basins of the Upper Rio Grande and the Gunnison are at 72 and 89 percent respectively. The Arkansas has the highest snowpack level in the state at 112 percent of normal. The northern basins are all near normal ranging from 99 percent in the Yampa/ White and North Platte to 109 percent in the South Platte. The main stem of the Colorado has 101 percent of normal snowpack.

As of January 1st, exceptional drought, D4, continues to affect southern Colorado covering 11 percent of the state, a three percent decrease since the last board update. Extreme drought, D3, has decreased as well since the last update and now covers 16 percent of the state; severe drought 28 percent and 11 percent is classified as moderate drought. An additional 18 percent of the state is currently experiencing abnormally dry conditions.

An El Niño watch remains in effect, meaning there is a greater than 90 percent chance of an El Niño developing and continuing through the northern hemisphere winter and a 60 percent chance it will continue through spring. Historically El Niño can result in an increased chance of wet extremes for southern Colorado.
The Drought Task Force and the Agricultural Impact Task Force will continue to monitor conditions and respond accordingly. (*Taryn Finnessey*)

CO WATER LOSS INITIATIVE— Kevin has started the CO Water Loss Initiative which will culminate in a 2-year training and technical assistance water loss control program for water providers across Colorado. Kevin convened a small advisory group to weigh in on the scope of work and to assist with the development of the programming. Approximately 82 water providers have signed up so far for the training that will begin in Spring 2019. The first round of 6 workshops have been scheduled for April is 5 different locations across the state. *(Kevin Reidy)*

LAND/WATER PLANNING NEXUS— Kevin Reidy is working with counterparts from DOLA to create trainings and other related projects specified in SB 15-008 (AKA the land use bill). This bill stated that the CWCB and DOLA would

create trainings for land use and water planning professionals in order to incorporate water conservation and demand management best practices into land use planning. Additional work is as follows:

- CWCB and DOLA have worked to hire a full-time short term (2 year) staff position (1/2 funded by the Babbitt Water Center) to staff the Water and Land Use Planning Alliance. This person should start near the end of January and will help with many aspects of the integration of water into land use planning.

- Sonoran Institute, through a CWCB water plan grant, has extended their Colorado Growing Smart initiative to carry out 3 more additional workshops over the nest 18-24 months. Kevin is on the advisory group for these trainings. Next trainings will take place in late April. As part of the same water plan grant, the Sonoran Institute has also issued an RFP for designing a stakeholder process that will evaluate and ultimately select a set of metrics that community and state officials can use to track their progress in meeting the state water plan goal. (*Kevin Reidy*)

DIRECT POTABLE REUSE—Through a water plan grant, Reuse Colorado has convened stakeholders along with CDPHE and CWCB to create a regulatory framework for direct potable reuse in Colorado. This project has also enlisted a panel of experts from across the nation to weigh in on the discussions and make recommendations on how to create the regulations and what should be in them. The third panel meeting will take place in late March or April. (Kevin Reidy)

~WATERSHED AND FLOOD UPDATES~

MAPPING UPDATE—

FY18 Activities: The CWCB was awarded the FY18 FEMA grant funding for Risk Map projects. In total, the CWCB will receive $5.5 million for the Risk Map program for all projects starting this year. The following is a list of the FY18 Risk Map projects:

The CWCB received a $231,823 from FEMA for Project management tasks. This also includes $80,000 allocated to the Division of Water Resources Dam Safety office for a pilot project.

$350,000 was awarded to fund Delta County Risk Map Phase 2, which will include data development tasks such as hydrology, hydraulics, and floodplain mapping throughout Delta County. The CWCB previously funded a scoping project, which includes a high level countywide analysis of flood risk throughout most of the stream reaches within Delta County. The scoping meeting is set to take place in mid-November with local community officials. Delta County Risk Map Phase 2 includes 41.5 river miles of enhanced flood study, post-fire flooding analysis, and an evaluation of sediment-bulked flooding.

The Upper White Watershed Risk Map project will receive an additional $70,000 from FEMA to conduct analysis on two levees that were discovered within Rio Blanco County during the routine hydraulic analysis. The Cache La Poudre Risk Map project is also receiving additional funds to address local community comments. A total of $195,000 of FEMA funding is awarded to resolve the comments and complete the Risk Map project for Cache La Poudre.

Analyzing levees continue to be a challenge for the Risk Map program. Fortunately, FEMA provides funding and resources to help Cooperating Technical Partners (CTPs), such as the CWCB to assess levee pre-certification options. The CWCB will receive $275,000 from FEMA to evaluate the Templeton Gap levee in

Colorado Springs. A portion of this funding will also be used to conduct a high level base level engineering analysis for Teller County.

The CWCB previously funded a Discovery project in the Animas River Watershed. From that effort, the local communities were able to identify several mapping needs. FEMA has awarded CWCB $654,717 to fund Phase 2 in 2017. This year, FEMA has awarded $295,000 to complete this project through effective mapping.

This year, FEMA has awarded the CWCB $620,000 to complete CHAMP Phase 3 projects through data development tasks. The remaining counties from CHAMP Phase 3 that are not updated will remain on the priority list until updated, high quality topographic data becomes available.

The CWCB funded regional hydrology updates for the Arkansas River from the headwaters near Leadville, Colorado to the Kansas State line as well as the Colorado River from Granby to the western border of Mesa County. The CWCB leveraged this work to obtain funds from FEMA this year to study the Arkansas River hydraulics and floodplain mapping. $340,000 was awarded for this effort. Garfield County Phase 3 will receive $346,752 from FEMA and this effort will include completing this Risk Map project through effective maps.

The CWCB will be funding a hydrology update for the Yampa River basin. The scope of work has been approved and we are currently working on the task order.

As the project list continues to expand, the engagement and outreach needs also increase. FEMA is awarding $315,000 to the CWCB for outreach and community engagement activities for ongoing and new projects.

FY17 Activities: The CWCB received a $212,558 grant from FEMA to provide an updated hydrologic and hydraulic engineering and floodplain mapping for the Roaring Fork River and floodplain mapping services for the Colorado River within Garfield County (Phase 2). A kick off meeting was held on April 5, 2018 and survey data has been collected. The hydrology analysis has been approved by FEMA and Wood is currently working on the hydraulic analysis. FEMA has awarded the CWCB funds for Phase 3 of this project in FY 2018.

The CWCB was able to leverage $929,729 from FEMA to continue CHAMP through the FEMA regulatory process. This study involves analyzing streams across seven counties in northeast Colorado and will include 233 FIRM panel updates. The counties include Boulder, Logan, Larimer, Morgan, Weld, Washington, and Sedgwick Counties. A Flood Risk Review meeting was scheduled with Larimer County in mid-November and the preliminary distribution is scheduled for this early spring. The Jefferson County PMR was the first one to go preliminary at the end of 2018. A final meeting with community officials will be scheduled in early February.

The CWCB previously funded a Discovery project in the Animas River Watershed. From that effort, the local communities were able to identify several mapping needs. FEMA has awarded CWCB $654,717 to fund the proposed projects that identified from the Discovery effort. This is Phase 2 and includes updated hydrologic and hydraulic engineering, (including post-fire conditions for Junction Creek), updated floodplain mapping, and sediment-bulked flooding along the Animas River, and an evaluation of ice jamming conditions in Silverton. Field survey work has been completed and additional coordination with local communities has taken place to determine if additional work to include impacts from the wild fires is needed. FEMA has awarded the CWCB funds for Phase 3 of this project, which will cover tasks through effective mapping.

The CWCB is funding a regional hydrology update for the Arkansas River from the headwaters near Leadville, Colorado to the Kansas State line. The CWCB is working with Wood (formerly Amec Foster Wheeler) on this analysis. The final report has been approved by FEMA. The final report is available on the CWCB website.

FY16 Activities: Upper White Watershed Risk Map Phase II preliminary map issuance will be delayed. A revised scope of work was submitted and approved by FEMA to conduct additional analysis, including a levee study, in Rio Blanco County and the Town of Rangely. St. Vrain Risk Map Phase III is also well under way. FEMA has approved the hydraulic and floodplain mapping tasks.

CWCB received $3.4 million FEMA grant for LiDAR acquisition in Colorado for future floodplain mapping projects. This money was used to leverage an additional $1 million from the USGS to supplement a late spring 2018 LiDAR acquisition in Eastern Colorado. This data has been collected and is now in the post-processing phase.

A regional hydrology study update on the Colorado River near Granby to the border with Utah has been completed and the results have been approved by FEMA. The CWCB has met with nearly every local community affected by this update. Final results are available for viewing on the Colorado Hazard Mapping website and on the CWCB website.

FY15 Activities: The Cache La Poudre Phase III project funds will be re-scoped to address comments from Fort Collins, City of Greeley, and the City of Windsor. Comments are now being addressed and an updated schedule for this project will be provided this Fall 2018. FEMA provided additional funds for this effort in FY 2018.

Upper Gunnison Risk Map Project Phase 2 hydraulic tasks were recently submitted to FEMA for review. Draft results show increased flood risk throughout the Town of Crested Butte. The model was done in HEC-RAS 2D and the mapping contractor is working on refining the results. A Flood Risk Review meeting will take place with local community officials sometime in early February 2019.

FY14 Activities: The erosion zone study for the Salt Creek Wash near the Town of Collbran in Mesa County was approved by FEMA. This report is now available on the Risk Map website.

FEMA has provided funding to conduct a countywide approximate floodplain mapping for El Paso County, referred to as a Base Level Engineering (BLE) study. A part of this grant funding will be rescoped to fund the revised preliminary project for the El Paso County DFIRM project, which will become effective at the end of 2018.

Other non-mapping projects funded by FEMA this year included an inventory of the ongoing studies and other data in the post flood areas, developing a technical evaluation of flood forecasting methods using Risk Map products, and developing a model management system to store all available hydrologic and hydraulic models in the post-flood areas. All of these projects are complete and have been approved by FEMA.

FY13 Activities: The El Paso County as a partial Countywide DFIRM project is now in the final compliance period and the effective date of the maps will be December 7, 2018.

Purgatoire Watershed Risk Map project is now in the post appeal period. An additional scope of work will be submitted to resolve tie in issues. This project includes Las Animas County, City of Trinidad, as well as a few other incorporated towns in Las Animas County.

The Pueblo County DFIRM is now in the post-preliminary phase, however, issues were found tying into the effective floodplains. The CWCB is funding a separate LOMR effort to resolve this issue. Field survey work has been completed and work on the LOMR is continuing, awaiting the approval for the State Task order.

FY12 Activities: The grant for Purgatoire Watershed was funded through floodplain mapping and all tasks have been completed under the 2012 grant. A new grant was approved in 2013 to complete the Purgatoire Risk Map project to effective and the progress report is found under FY 13 Activities. The Cache La Poudre Risk Map project was funded in FY 2012 and the hydraulic and floodplain mapping tasks are almost complete. A new FEMA grant was awarded in FY 2015 to complete the Cache La Poudre Risk Map project under Phase III. Additional tie in work is needed and the State Task order is being completed now.

FY11 Activities: Hydrology tasks for St. Vrain and Clear Creek watersheds have been completed and approved. The scope of work for the St. Vrain watershed was revised to include areas that were impacted by the flood. All tasks under this grant have been completed through to floodplain mapping. The FEMA grant for this project has expired and a new grant was approved in 2016 to complete additional tasks to finalize the maps as FEMA effective products. Updates for the St. Vrain Risk Map project will be provided under FY 2016 activities. Some streams updated through the Colorado Hazard Mapping Project will be included in the St. Vrain map update.

Clear Creek Risk Map preliminary maps were distributed on February 8, 2017. The community review meeting was held on March 30, 2017. Clear Creek is now in the post appeal period and FEMA will be taking over this project to completion. (Thuy Patton)

FLUVIAL HAZARD MAPPING UPDATE— The floods of September 2013 reminded Coloradans how quickly rivers and streams in their state can change and morph into extreme storm events. Approximately half of the private structure damages and losses experienced in the 2013 flood were located outside of the regulatory floodplain, or Special Flood Hazard Area (SFHA), designated by the Federal Emergency Management Agency (FEMA). These flood-related risks associated with erosion, deposition, degradation, lateral migration, and avulsion created disastrous outcomes in 2013, and those outcomes may occur again in future flood events in Colorado.

The identification of fluvial hazard zones has become a high priority as Colorado recovers from the September 2013 floods and transitions toward long-term river corridor planning. Planning for erosion hazards is an essential component of effective river corridor management and the prevention of future flood damages. Broadly defined, the Fluvial Hazard Zone (FHZ) is the area a stream has occupied in recent history, could occupy, or could physically influence as it stores and transports sediment and debris.

In early 2015, Colorado's Legislature passed a funding bill for the Colorado Hazard Mapping Program, which aims to provide a mitigation and land use framework in areas likely to be affected by future flooding, erosion, and debris flow events. The fluvial hazard mapping component of the project began in January 2017. The engineering firm Wood. has been contracted to do the work. The program will refine mapping methodology and perform a series of pilot studies on fluvial hazards throughout the State. Communities interested in participating in the pilot

studies submitted applications to the CWCB and selections were made in May of 2017. Community selections were based on physio-geographic location, geomorphic setting, existing data availability, and other technical elements, as well as community support, budget, and time constraints. Communities selected include Boulder, Eagle, Saguache, and San Miguel Counties, and the Town of Castle Rock, City of Delta, Town of Estes Park and Town of Nederland. Fluvial/erosion hazard mapping in these communities is current underway, and map products and a model land use code will be available for voluntary adoption by communities by the end of June 2019. (*Stephanie DiBetitto*)

FLOODPLAIN RULES AND REGULATIONS UPDATE— The State of Colorado, through CWCB action in November 2010, adopted increased standards for floodplain management, which are contained in the Rules and Regulations for Regulatory Floodplains in Colorado (Rules), effective January 14, 2011.
Communities were provided with a three-year transition period to adopt local regulations consistent with the Rules. Through sound floodplain management practices, these standards support enhanced public health, safety and welfare and will help communities reduce future flood risk to people and property.

Staff has been working very collaboratively with communities to assist them with technical questions, model ordinance templates, and transition support. CWCB staff has contacted each community that has not yet provided documentation of adoption of the Rules via phone or email to offer assistance. Staff has also met with several communities to answer questions and review the process for updating floodplain regulations.

Most communities have made adopting the Rules into local floodplain regulations a priority. However, the Town of Holyoke is the last of 252 total communities to adopt or provide documentation to the CWCB. A three-year transition period was provided and all Colorado communities had until January 14, 2014 to adopt floodplain regulations consistent with the Rules. Therefore, the remaining community is considered to be non-compliant.

Non-compliance is taken into consideration by CWCB staff when awarding grant funding, and can prevent a community from receiving CWCB funds. In accordance with the procedure outlined in Rule 16, staff is continuing to provide outreach and technical assistance to the community. The Town of Holyoke has provided the CWCB with an update of their progress to date and are working towards final adoption at the local level. The CWCB anticipates receiving a final ordinance from the community no later than March 2019. (*Stephanie DiBetitto*)

RADIOMETER INSTALLATION IN WALDEN, CO – In late December of 2018, CWCB staff, along with staff from the Boulder based company Radiometrics, and support from North Park High School, installed a Radiometer on the roof of the Walden High School. The radiometer is similar to a NWS weather balloon program. But the radiometer provides real time atmospheric data every five minutes in the basin of focus. The NWS weather balloon program spans decades, but the two a day weather balloon launches are Denver and Grand Junction. In short, abundant super cooled liquid water and cloud temperature are very valuable datasets in determining which clouds to seed or not. This project was designed to give real time atmospheric data in the North Platte basin to aid in seed/no seed decisions. (Joe Busto and Andrew Rickert)

NORTH PLATTE WEATHER MODIFICATION PERMIT APPROVED – On January 3rd, 2019, CWCB Director Becky Mitchell signed and approved Colorado's first commercial wintertime aerial cloud seeding permit. The aerial seeding will take place in the Never Summer Mountain Range located in Jackson County, southeast of the town of Walden. The project sponsors include the Jackson County Water Conservancy District, North Platte Basin Roundtable, State of Wyoming Water Development Office, and the Cheyenne Board of Public Utilities. The permittee, Weather Modification Incorporated, will use a twin-engine turboprop King Air C90 aircraft to drop

flares containing silver iodide into orographic winter storm clouds to augment snowpack. The project hopes to increase water supply in this drainage that feeds into the Upper North Platte River. (Joe Busto and Andrew Rickert)

WATER SUPPLY FORECASTING AUTHORIZATION UPDATE – A few years ago, staff conducted a research and development field campaign in the Rio Grande that used NASA ASO data (aerial LIDAR and spectrometer) data, radar QPE, and new snow data to drive hydrologic models and increase the accuracy of the forecasts for seasonal flow past stream gauges from snowmelt. This program utilizes data, new methods, and new models to try and create value added to volumetric seasonal water supply forecasts (April – October) provided by the NRCS and NOAA River Basin Forecast Centers and for local water users. Recent expenditures were $375,000 to share in the permanent radar in Alamosa with other funding sources, and to purchase and deploy nine new "SNOTEL-lite" data sites on federal lands in the Rio Grande and Gunnison. For this fiscal year, the slated projects are as follows:

- There will be two NASA ASO flights in the Gunnison at a cost of $298,000 paid for by the CWCB. The NASA Snow Ex campaign will match the CWCB and hire NASA ASO for two additional flights for a total of four flights during Gunnison snowmelt season.

- Denver Water will grant $185,000 in funding to CWCB to use Colorado's contract with NASA for two flights during the snowmelt season in the Blue River Basin.

- The Conejos WCD will receive $67,000 to hire the National Center for Atmospheric Research to service and maintain five new SNO-lites, maintain automatic feed and display of SNOTEL, SNOTEL-lites, SNODAS, and CDWR and USGS streamflow data in the HydroInspector web viewer for water administration, and deploy real time water level sensors in the Conejos River Basin.

- Another $45,000 was used to contract with the NOAA Western Water Assessment to utilize satellite based snow persistence and snow absence data to characterize existing NRCS SNOTEL sites and help plan for future NRCS SNOTEL sites.

- Another $35,000 will be used to partner with the Upper Gunnison River WCD and NRCS Snow Survey Program to pay for the equipment costs two site a brand new SNOTEL site on Kebler pass.

Finally, $25,000 will be used to hire Open Water Foundation to maintain the new online daily SNODAS web display for Colorado both in the CWCB DSS and on the Open Water Website.

These projects will leave the Water Supply Forecast Partnerships authorization with $314,000 left from the original two $1.6M authorization in 2017 and 2018 Construction Fund bills. Additional funding may be requested in an August Construction Fund staff application to continue on with these types of snow projects in addition to partnering on a permanent radar for La Plata County. This new Four Corners area permanent radar project has significant DOLA funding obligated already. However,it is anticipated that there will be additional costs for getting power to the site, permitting, environmental analysis, and site hardening. It is anticipated that the CWCB/DNR will be asked to partner with the local agencies and DOLA/DHSEM with funding and project management for this La Plata County based radar. (Joe Busto)

CWCB STAFF CONTINUE TO AID FIRE-AFFECTED COMMUNITIES DURING RECOVERY ACTIVITIES — The Summer of 2018 represented the worst wildfire year for Colorado since at least 2013. The three most damaging fires included

the 416 Fire in La Plata County (55,000 acres), the Spring Fire in Huerfano and Costilla Counties (108,000 acres and the 3rd largest fire in Colorado history), and the Lake Christine Fire in Eagle County (13,000). Following the destruction caused by the fires themselves, a multi-year period of increased flood threat now exists downstream of each of these burn scars due to hydrophobic soils created by the fire.

Representatives from local governments affected by all three fires have reached out to CWCB staff for technical assistance and advice for recovery activities. Although CWCB does not have a formal recovery role, staff have demonstrated experience in these processes due to activities following the 2012 and 2013 wildfire seasons and the 2013 Front Range floods. For example, CWCB recently completed a $50+ Million recovery effort in partnership with the Natural Resources Conservation Service as part of their Emergency Watershed Protection (EWP) Program. This effort also included partnerships by the Colorado Department of Local Affairs, and the US Housing and Urban Development, among others.

Assistance to the communities affected by the 2018 fires have included site visits to each burn scar to assess flood risk and recommend recovery activities. Lessons learned in working with federal grant programs, landowners, and other partners have been discussed. Resources developed during the 2013 flood recovery effort (which can be found at www.coloradoewp.com) have been shared, and locals have indicated that these have been invaluable resources as they navigate the various funding programs.

In addition, several communities have requested grant dollars for recovery activities through the Colorado Watershed Restoration Program. Recommendations for funding will be presented by staff to the Board at this Board Meeting.

CWCB staff will remain available as a technical resource on an ongoing basis for any communities that need further help. (Kevin Houck)

COLORADO WATERSHED RESTORATION PROGRAM UPDATE — The Colorado Watershed Restoration Program(CWRP) is designed to provide planning and project implementation funding for watershed and stream restoration and protection efforts. The program supports stakeholder driven collaboratives committed to restoring and protecting the ecological processes that connect land and water. The CWRP guidance document and application was approved by the Board in September of 2008. The Board approved revisions to the program in May 2012 and July 2015. The latest revision added Stream Management Plans (SMP) as a specific grant type. Other grant types include Watershed/Stream Restoration, Flood Mitigation, and Monitoring grants.

Since 2008, the program has funded 88 projects with over $5.5 million. This does not include applications chosen for funding in 2019. Every CWCB dollar contributed to the program has leveraged $4.35 from other local, state, and federal sources. The CWRP guidance has served as a template for several other grant programs. This includes the 2014 Special Release of the CWCB Colorado Watershed Restoration Program ($1,925,000), the CWCB Senate Bill 14-179 River Restoration Program ($2,500,000), the Department of Local Affairs Community Development Block Grant – Disaster Recovery, Watershed Resilience Program ($25,000,000), and the NRCS – CWCB Emergency Watershed Protection Program (>$60,000,000).

On January 15, 2019 CWCB staff met to discuss the 29 applications submitted for review in November 2018. Each application was scored by a minimum of five staff members. Stream Management Plan applications were scored by seven staff members, including a representative from Colorado Parks and Wildlife. Applications requesting less than $100,000 are approved for funding by the CWCB Deputy Director. Funding recommendations for applications

over $100,000 will be presented to the Board on January 28, 2019. There are 17 applications requesting less than $100,000 and 12 applications requesting more than $100,000. The funding approvals for the 17 applications are listed in the table below. Sixteen applications were approved for full funding. One application was not approved for funding because the applicant has identified another source of funding. (*Chris Sturm*)

Stream Restoration/Flood Mitigation Plans and Projects + Monitoring Grants

Applicant	Score	Location (Stream, Town or County, Basin)	Project	Funding Request	CWCB Funding Awarded
Mountain Studies Institute		La Plata County	Animas River Removal and Replacement of Invasive Phreatophytes, Phase II	$65,803	$65,803
City of Steamboat Springs		Yampa River in Steamboat	Yampa River Riparian Restoration Project	$50,000	$50,000
Roaring Fork Conservancy		Crystal River - Mouth	Crystal River Management Plan Demonstration and Pilot Projects	$25,000	$25,000
Rocky Mountain Field Institute		Pike National Forest Tributaires	Enhancing Watershed Resiliency in the Pike National Forest Through the Implementation of Multi-Year and Multi-Faceted Watershed Health Improvement Projects	$90,000	$90,000
Wildland Restoration Volunteers		Campbell Creek in the Poudre River Watershed	Campbell Creek Restoration	$51,091	$51,091
Eagle River Watershed Council		Gore Creek in Vail	Sundial Riparian Habitat and Floodplain Restoration	$53,400	$53,400
Fountain Creek Watershed, Flood Control, and Greenway District		Fountain Creek from South Co Springs to confluence with the Arkansas River	Fountain Creek Corridor Floodplain Management Implementation Study	$60,000	$60,000
City of Aspen		Roaring Fork River in Aspen	Riparian Area Assessment and Plan	$28,500	$28,500
Fourmile Watershed Coalition		Big Thompson and St. Vrain Watersheds	Northern Front Range Forestry Network	$68,900	$68,900
Gunnison County		Gunnison River north of City of Gunnison	Shady Island River Park Project	$50,000	$50,000
Estes Valley Watershed Coalition		Estes Valley Watersheds - Fish Creek, Fall and Big Thompson Rivers	Maintenance Services for Thirteen Estes Valley Watershed Restoration Sites	$18,684	$18,684
Central Colorado Conservancy		South Arkansas River in Salida	South Arkansas River Restoration Planning Project, CR 107 to Confluence with Arkansas River	$15,000	$15,000
Huerfano County Water Conservancy District		La Veta - Cucharas River Watershed	Cucharas-Huerfano Restoration and Flood Mitigation Project Phase I	$98,000	
				$674,378	**$576,378**

Stream Management Plans

Applicant	Score	Location (Stream, Town or County, Basin)	Project	Funding Request	CWCB Funding Awarded
Boulder Flycasters		South Boulder Creek - 9 mile reach	South Boulder Creek Stream Management Plan, Phase I - Stakeholder Outreach, River Health Assessment Mehtodology Selection, and Existing Physical Infrastructure Assessment	$55,000	$55,000
The Western Slope Conservation Center		Upper North Fork of the Gunnison River	Integrated Water Management in the North Fork Gunnison River: Phase 2	$66,047	$66,047
Southwest Basin Roundtable		San Miguel River Basin	San Miguel Stream Management Plan: Stakeholder Engagement Process	$25,061	$25,061
Middle South Platte River Alliance		South Platte River, St. Vrain confluence to Poudre River confluence	Middle South Platte Stream Management Plan (Phase I)	$47,202	$47,202
				$193,310	**$193,310**

~AGENCY UPDATES~

FINANCE SECTION MEETING WITH STAFF FROM STATE OF WYOMING— On November 29, 2018 staff visited with Jason Mead, Barry Lawrence, Jodee Pring, and Andrea Odell of the Wyoming Water Development Commission (Commission). The purpose of the meeting was to learn about Wyoming's practices for funding water projects, including information on: the sources of funding, project selection, prioritization, and general process from application to project completion. Similar to Colorado, Wyoming funds water projects using severance tax revenues. The Commission receives approximately $24 million annually and divides the funds into three accounts: one for new projects, one for rehabilitation of existing infrastructure, and one for new dams or enlargement of existing dams. The Commission funds 100% of the cost of master plans, watershed studies, and river basin planning. It also funds 100% of the cost of feasibility studies. Once a project is ready for construction, it typically funds projects at 67% grant to 33% loan. Loan interest rates are fixed at 4.0% and the repayment period varies from 1 to 50 years.

RECENTLY DECREED ISF WATER RIGHTS — On December 19, 2018, the Division 2 Water Court decreed instream flow water rights to the CWCB on a reach of the Apishapa River in Case No. 17CW3065 for 0.5 cfs (09/01 - 04/30), 2.9 cfs (05/01 - 06/30), and 1.1 cfs (07/01 - 08/31), with an appropriation date of January 24, 2017. The upstream terminus is the Apishapa River headwaters, and the lower terminus is the confluence with Herlick Canyon. This ISF reach is approximately 4.52 miles long and flows in a southeasterly direction through parts of Las Animas County. Colorado Parks and Wildlife recommended this reach of the Apishapa River to help protect its self-sustaining populations of brown trout (Salmo truta), and brook trout (Salve linus fontinalis). (*Rob Viehl*)

IMPLEMENTATION OF RIVER DISTRICT LEASE OF RUEDI WATER FOR ISF USE ON FRYINGPAN RIVER — The CWCB's Water Lease Agreement with the Colorado River Water Conservation District (River District) was finalized and became effective on December 14, 2018. Coordination among the CWCB, Colorado Parks and Wildlife (CPW), Roaring Fork Conservancy (RFC), River District, and Bureau of Reclamation on the timing and rate of releases of leased water commenced on December 17, 2018 in response to observations of anchor ice formation on the lower Fryingpan River. On December 27, RFC and CPW staff conducted a site visit and based upon their observations, recommended starting releases of leased water on December 28 based upon river conditions and forecasted low temperatures. The Bureau of Reclamation began releases of leased water at a rate of 23 cfs on December 28, 2018, bringing Fryingpan River flows up to 62 cfs. RFC and CPW will continue to monitor conditions on the River. (*Rob Viehl*)

BEAR CREEK LAKE PROJECTS — CWCB currently has three projects related to Bear Creek Lake: an application for storage rights in Bear Creek Lake, a reallocation study with the Army Corps of Engineers (Corps), and a stream gage installation. CWCB hired the engineering firm Brown and Caldwell in February of 2018 to provide engineering support for a water rights application for storage in Bear Creek Lake. As part of this work, Brown and Caldwell is currently collecting and analyzing data from potential partners in the Bear Creek Lake water rights and reallocation. Modeling of operational needs is expected to be complete by the beginning of February 2019. Staff is also working closely with the Corps on a Feasibility Cost Share Agreement for the reallocation study. It is estimated that the total cost for this study will be $3M, and CWCB's share will be $1.5M. Finally, CWCB staff and the City of Brighton have been discussing a partnership to install a year round stream gage on Turkey Creek above Bear Creek Lake. Currently there is only one stream gage above the reservoir on Bear Creek, and additional data is needed for more precise water management. (*Erik Skeie*)

POND SNOW MEASURING EVENT — Staff has been working with Colorado Water Congress' Professional Outreach, Networking and Development (POND) Committee, Colorado State University, and the University of

Colorado to plan a snow measurement networking event on February 22nd at the University of Colorado's Mountain Research Station. This event will provide opportunity for students to teach professionals in the water industry how to measure snow for water supply forecasting. CWCB Staff and NRCS will share information on how snow data is used in water management. Visit https://www.cowatercongress.org/pond.html for more information on the POND Committee and any upcoming events. (*Erik Skeie, Kara Scheel*)

USFS: GRAND MESA, UNCOMPAHGRE, AND GUNNISON (GMUG) NATIONAL FORESTS' PLAN REVISION — The Grand Mesa, Uncompahgre, and Gunnison (GMUG) National Forests are in the process of revising their joint GMUG Forest Plan. The Department of Natural Resources (DNR) is a cooperating agency in this process. CWCB staff is assisting the DNR Executive Director's office in providing comment, coordinating with the Board members in the GMUG area to evaluate issues.

The GMUG is currently soliciting input on which rivers and streams should be considered eligible for inclusion in the National Wild and Scenic Rivers System (NWSRS). A draft Wild and Scenic River Eligibility Report has been released to cooperating agencies. Eligibility is a required component of the Forest Plan revision and is the first in a three-step process for Wild and Scenic River designation. CWCB staff will coordinate with Board members in evaluating this document in the coming weeks. *(Carlee Brown)*

EFFECTS OF THE FEDERAL SHUTDOWN ON INTERSTATE AND FEDERAL PROGRAMS AND PROJECTS — The partial federal government shutdown began on December 22, 2018, leaving several federal natural resource agencies unfunded. The Bureau of Reclamation was funded for FY2019 through an Energy and Water appropriations bill. However, many of CWCB's state-federal partnerships with other agencies have been affected, including:

- *San Juan River Recovery Program (SJRIP)* — All coordination and planning efforts for the SJRIP have been halted. Both the Acting and Assistant Program Coordinator staff have been placed on furlough. Two program biologists were funded through the Energy and Water Development appropriations bill, thus they are able to continue their work, maintaining minimal biological aspects of the program. Program hatcheries are being operated at a basic level for essential husbandry care, but no spawning or distribution is occurring. However, all aspects of program planning are on hold including spring monitoring, project planning and recovery actions, and post-2023 program planning.
- *Upper Colorado River Endangered Fish Recovery Program (Recovery Program)* — U.S. Fish and Wildlife Service (FWS) personnel working full time for the Recovery Program are considered "exempt" from the current federal furlough. This is because the Recovery Program is currently using fiscal year 2018 carry-over funds, which will last well into February for all program staff. However, without the participation of FWS, major planning and non-native fish removal efforts have been halted. The Program's Ouray National Fish Hatchery is being operated at the minimal level for essential husbandry care but no spawning or distribution is occurring.
- *Platte River Recovery Implementation Program (PRRIP)* — PRRIP has experienced minimal effects from the partial federal shutdown because it receives federal funds through the Bureau of Reclamation, which has received appropriations for FY 2019. However, several upcoming planning and coordination workgroup meetings may be cancelled if FWS is unable to join. All major action items will be postponed until this crucial federal program partner can participate. The next major meeting of the PRRIP Governance Committee will be held in March.
- *Glen Canyon Dam Adaptive Management Program (GCDAMP)* – The Bureau of Reclamation leads GCDAMP administration and has sufficient funding to support its efforts for this fiscal year. The US Geological Survey (USGS) is included in the shutdown, however, and thus all research and monitoring that

USGS conducts to track the resources in the Grand Canyon under the purview of GCDAMP are indefinitely postponed.

- *Colorado River Basin Salinity Control Program (CRBSCP)* – The Bureau of Reclamation administers the CRBSCP and is able to continue most operations through its funding in the Energy and Water Appropriations bill. However, the CRBSCP's major funding program that supports irrigation improvements to reduce salinity—known as the Funding Opportunity Announcement (FOA)—will likely be delayed from its previously scheduled spring/summer start date. This is because all funding programs issued by Reclamation now require approval from leadership at the Department of Interior, and Interior staff have been furloughed due to the shutdown.

~INSTREAM FLOW ATTACHMENTS~

- 01 Instream Flow and Natural Lake Level Program – Summary of Resolved Opposition Cases

~LOAN PROGRAM ATTACHMENTS~

- 01 Water Project Loan Program Interest Rates
- 02 Prequalified Project List and Loan Prospect Summary
- 03 Design and Construction Status Report
- 04 Loan Repayment Delinquency Report

January 28-29, 2019 Board Meeting
Instream Flow and Natural Lake Level Program
Summary of Resolved Opposition Cases

The Board's Instream Flow ("ISF") Rule 8i(1) states:

> 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; the Director has authorized the Attorney General's Office to enter into stipulations that protect the CWCB's water right(s).

A. STATEMENTS OF OPPOSITION

(1) Case No. 11CW0077 (Water Division 2) - Application of Lower Arkansas Valley Water Conservancy District

The Board ratified this Statement of Opposition at its March 2012 meeting. The Applicant sought to change absolute trans-mountain water rights diverting from Water Division 4 to add new uses in the receiving basin in Water Division 2. The water would be used via direct flow or by storage. Applicant withdrew its application on December 6, 2018. The case is closed on Colorado Courts E-Filing.

The CWCB holds instream flow water rights, including the following, in Water Divisions 2 and 4 in the Arkansas Headwaters and Tomichi Watersheds that could have been injured by this application:

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
77W3293 (Div. 4)	Marshall Creek	confl Tank 7 Creek	confl Indian Creek	2 (10/1 - 4/30) 6 (5/1 - 9/30)	11/15/1977
77W3292 (Div. 4)	Marshall Creek	confl Indian Creek	confl Tomichi Creek	4 (10/1 - 4/30) 8 (5/1 - 9/30)	11/15/1977
77W4657 (Div. 2)	Poncha Creek	headwaters in vicinity	confl Silver Creek	5 (1/1 - 12/31)	11/15/1977
77W4675 (Div. 2)	Poncha Creek	confl Silver Creek	confl S Arkansas River	8 (1/1 - 12/31)	11/15/1977
80CW0132 (Div. 4)	Tomichi Creek	confl Marshall Creek	confl Quartz Creek	18 (1/1 - 12/31)	03/17/1980

(2) Case No. 16CW3097 (Water Division 4) - Application of Moonrise Enterprise, LLC

The Board ratified this Statement of Opposition at its March 2017 meeting. Applicant requested an augmentation plan and exchanges for new storage rights and groundwater rights to irrigate greenhouses year-round. 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 instream flow water rights, including the following, in Water Division 4 in the San Miguel Watershed that could be injured by this application:

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
84CW0442	Naturita Creek	confl E & W Naturita Creeks	Norwood Road crossing	3 (1/1 - 12/31)	07/13/1984

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

- The ponds shall be lined as required by the Division Engineer. When the ponds are out-of-priority, flows into the ponds will be bypassed and not stored.
- Once the wells are drilled, decreed glover factors will be used to compute lagged diversion impacts on the stream system.
- By April 30 of each year, Applicant shall assess whether there is enough water stored in the ponds to replace all lagged depletions. If there is not enough water in storage, they applicant shall cease well pumping until adequate storage water is available.

(3) Case No. 17CW3083 (Water Division 4) - Application of Ellen F. Price Trust and Joseph B. Price Trust

The Board ratified this Statement of Opposition at its March 2018 meeting. Applicant requested absolute surface diversion water rights, absolute and conditional storage water rights, and approval of a plan of augmentation with appropriative rights of exchange. 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 instream flow water rights, including the following, in Water Division 4 in the San Miguel Watershed that could be injured by this application:

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
84CW0429	San Miguel River	confl South Fork San Miguel River	conf Fall Creek	20 (1/1 - 12/31)	07/13/1984
02CW0277	San Miguel River	confl Fall Creek	pt immed u/s of confl Horsefly Creek	93 (5/1 - 10/14) 61 (10/15 - 4/30)	01/23/2002
84CW0430	South Fork San Miguel River	confl Howard & Lake Fork San Miguel	confl San Miguel River	9 (1/1 - 12/31)	07/13/1984

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 ponds are filled out-of-priority, depletions will be replaced in the full diversion amount without offsets for return flows from out-of-reservoir uses of stored water.

(4) Case No. 17CW3245 (Water Division 5) - Application of Abundant Acres LLC

The Board ratified this Statement of Opposition at its March 2018 meeting. Applicant requested a conditional water storage right and plan for augmentation including exchange. 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 instream flow water rights, including the following, in Water Division 5 in the Roaring Fork Watershed that could be injured by this application:

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
76W2941	Capitol Creek	outlet Capitol Lake	confl Snowmass Creek	10 (1/1 - 12/31)	01/14/1976
85CW0646	Roaring Fork River	confl Maroon Creek	confl Fryingpan River	30 (10/1 - 3/31) 55 (4/1 - 9/30)	11/08/1985
85CW0639	Roaring Fork River	confl Fryingpan River	confl Crystal River	75 (10/1 - 3/31) 145 (4/1 - 9/30)	11/08/1985
76W2943B	Snowmass Creek	confl Capitol Creek	confl Roaring Fork River	12 (4/1 - 10/15) 11 (10/16 - 3/31)	01/14/1976
92CW0281*	Snowmass Creek	confl Capitol Creek	confl Roaring Fork River	10.5 (4/1 - 10/15)	09/15/1992

* Increase ISF appropriation

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

- Applicant shall not divert more than 1.083 cfs total at the Boram and White Ditch between its senior irrigation water rights and its junior deliveries of water to fill the Abundant Acre

Pond and shall not enlarge the historical diversion season for the Boram and White Ditch senior irrigation water rights.
- Applicant shall not augment irrigation use of water stored in the pond under its 2017 junior priority.
- The pond will be lined if it is found to intercept groundwater.
- During a call within the augmentation by exchange reach, including for the instream flow rights, applicant shall curtail all storage in the pond.

(5) Case No. 17CW3248 (Water Division 5) - Application of Town of Gypsum

The Board ratified this Statement of Opposition at its March 2018 meeting. Applicant requested water rights, changes of water rights, appropriative rights of exchange, and augmentation plans. 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 instream flow water rights, including the following, in Water Division 5 in the Eagle watershed that could be injured by this application:

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
80CW0124	Eagle River	confl Brush Creek	confl Colorado River	50 (10/1 - 4/30) 130 (5/1 - 9/30)	03/17/1980
80CW0117	Gypsum Creek	outlet LEDE Res	confl Red Creek	5 (1/1 - 12/31)	03/17/1980
80CW0116	Gypsum Creek	confl Red Creek	confl Eagle River	6 (1/1 - 12/31)	03/17/1980

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

- During an instream flow call, applicant shall make replacement from its upstream sources in the amount as appropriate for the reach being depleted, as detailed in the decree.

B. LETTERS IN LIEU OF FILING A STATEMENT OF OPPOSITION

The following cases were resolved by Staff through negotiated letters in lieu of filing water court Statements of Opposition. This method of settlement is preferred when facts and time allow such negotiation before the Statement of Opposition period ends. In each case, CWCB staff will continue to monitor the proposed rulings and decrees. In each case, Applicant has agreed to not oppose a motion to intervene if the agreed upon terms are not included. The following were negotiated to resolution:

(1) Case No. 18CW3165 (Water Division 5) - Application of Estate of Robert P. Beattie

During the October 2018 Water Court Resume Review, CWCB staff identified concerns regarding potential injury to CWCB's instream flow water rights decreed in Case No. 76W2938 on Woody Creek. This case was resolved with CWCB by a letter agreement, dated December 27, 2018, by which CWCB agreed not to file a statement of opposition, provided Applicant incorporates the following terms and conditions into any draft and final decrees and Applicant

agrees to not oppose a motion to intervene by CWCB if such terms and conditions are not included.

- The Colorado Water Conservation Board (CWCB) holds instream flow water rights on Woody Creek and the Roaring Fork River that could be impacted by the surface water right and augmentation plan decreed herein. When any of these instream flow water rights is not met and being administered, the Bettie Pump and Pipeline shall be curtailed.

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

1313 Sherman Street
Denver, CO 80203

P (303) 866-3441
F (303) 866-4474

Jared Polis, Governor

Dan Gibbs, DNR Executive Director

Rebecca Mitchell, CWCB Director

TO: Colorado Water Conservation Board Members

FROM: Kirk Russell, P.E., Finance Section Chief

Board Meeting: January 28-29 Board Meeting

Directors Report: Water Project Loans
Interest Rates

Introduction
The CWCB establishes interest rates bi-monthly for the Water Project Loan Program (per Financial Policy #7).

The current rates for a 30-year term are as follows:
1.85% - Agricultural
2.55% - Low-income Municipal
2.95% - Middle-income Municipal
3.30% - High-income Municipal
6.00% - Commercial
2.00% - Hydroelectric

The standard loan term is 30 years. Rates are reduced by 0.25% for 20-year loans, and by 0.60% for 10-year loans. Rates are increased by 0.25% for 40-year loans.

The rates can also be found on the CWCB web site under the “Loans and Grants” tab.
These rates will be applicable for loans presented at this Board meeting.

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Denver, CO 80203

P (303) 866-3441
F (303) 866-4474

Jared Polis, Governor

Dan Gibbs, Executive Director

Rebecca Mitchell, CWCB Director

TO: Colorado Water Conservation Board Members

FROM: Anna Mauss, P.E., Marketing
Finance Section

DATE: January 28-29, 2019 Board Meeting

DIRECTORS REPORT: Water Project Loan Program
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 three 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

BORROWER	PROJECT NAME	APPLICATION DATE	BASIN	PROJECT DESCRIPTION	PROJECT COST/LOAN AMOUNT
Previously Approved Applications					
Schneider Ditch Company	Schneider Ditch Diversion Structure Replacement	Sept 1, 2018	South Platte	The existing Schneider Ditch diversion structure is nearing the end of its useful life. The company would like to replace the existing structure with new Obermeyer gates.	$1,089,000
	Loan to be presented at January 2019 CWCB meeting.				
Total					$1,089,000

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 loan feasibility study.

South Platte River Basin

Borrower	Project	Potential Loan Amount
NISP Participants	NISP	$100,000,000
Upper Platte & Beaver Irrigating Co.	Diversion Structure	$7,000,000
Woods Lake Mutual Ditch Co.	Culvert Replacement	$150,000
Town of Kersey	Raw Water Line	$TBD
Tunnel Water Company	Ditch Rehabilitation	$5,000,000
Riverside Reservoir and Land Co.	Ditch Rehabilitation	$250,000
Town of Bennett	Raw Water Tank	$500,000
Town of Empire	Water Rights Purchase	$100,000
Logan Irrigation District	Prewitt Reservoir Rehab	$TBD
Evergreen Metro District	Evergreen Dam Enlargement	$TBD
Left Hand Water District	Dry Creek Reservoir	$TBD
Subtotal		**$113,000,000**

Arkansas River Basin

Oxford Ditch	Siphon Repair	$1,800,000
Town of Manitou Springs	Raw Water Pipeline	$3,000,000
City of Woodland Park	Storage Project	$1,000,000
Fort Lyon Canal Company	Adobe Creek Enlargement	$8,000,000
Amity Mutual Irrigating Co.	Reservoir Rehabilitation	$TBD
Arkansas Groundwater Users Assoc.	Gravel Pit Purchase	$3,000,000
Deweese Ditch and Reservoir Co.	Reservoir Enlargement	$TBD
Holbrook Ditch Company	Reservoir Enlargement	$TBD
Lake County	New Reservoir	$TBD
Lower Arkansas Water Mgmt Assoc.	Gravel Pit Purchase	$4,500,000
Catlin Canal Company	Canal System Improvement	$1,500,000
Subtotal		**$22,800,000**

San Miguel/San Juan River Basin

Town of Bayfield	Ditch Piping	$500,000
Redmesa Reservoir and Ditch Co.	Reservoir Enlargement	$5,000,000
Subtotal		**$5,500,000**

Colorado River Basin

Town of Breckenridge	Goose Pasture Tarn Dam	$20,000,000
Orchard Mesa Irr. Dist.	Lateral Piping	$300,000
Silt Water Conservancy District	Harvey Gap Reservoir	$300,000
Middle Ditch	Ditch Piping Project	$TBD
Subtotal		**$20,600,000**

Gunnison River Basin

Gunnison County Electric	Hydroelectric Project	**$1,000,000**

Rio Grande Basin

•Manasa Land & Irrigation Co.	Ditch Rehabilitation	$6,000,000
•Baca Grande Water and San District	Water Rights Purchase	$1,000,000
•Sanchez Ditch and Reservoir Co.	Dam Rehabilitation	$4,000,000
•Rio Grande WCD	Water Rights Purchase	$5,000,000
•Trinchera Water Conservancy District	Water Rights	$2,000,000
•Town of Center	Water Meter Project	$200,000
•Town of South Fork	Water Rights Purchase	$450,000
•**Subtotal**		**$18,650,000**

Yampa River Basin

•Town of Oak Creek	Reservoir Rehabilitation	$500,000
•Rio Blanco Water Conservancy Dist	Wolf Creek Reservoir	$100,000,000
•**Subtotal**		**$100,500,000**

North Platte Basin

•No projects at this time

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Jared Polis, Governor

Dan Gibbs, DNR Executive Director

Rebecca Mitchell, Director

TO: Colorado Water Conservation Board Members

FROM: Kirk Russell, P.E., Finance Section Chief
Jessica Halvorsen, Program Assistant

Board Meeting: January 28-29, 2019 Board Meeting

Directors Report: Water Project Loan Program
Design & Construction Status Report

The CWCB Loan Program has Substantially Completed fourteen (14) projects in Calendar Year 2018 as shown in Table 1. There are currently fifty two (52) projects authorized to receive loan funding totaling $396 million. There are forty two (42) projects currently under contract and in the Design and Construction phase totaling $242 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

	Borrower	Project	County	Loan Amount	Complete
1	Riverside Ditch and Allen Extension Company	Phased Canal Improvements	Chafee	$186,345	1/1/2018
2	Lookout Mountain Water District	Upper Beaver Brook Dam Spillway	Clear Creek	$3,099,690	1/1/2018 (a)
3	Supply Irrigating Ditch Company	Emergency Supply Irrigating Ditch Repair Project	Boulder	$324,210	3/1/2018
4	Georgetown, Town of	Outlet Works Modification Project	Clear Creek	$2,976,975	4/1/2018(b)
5	Lake McIntosh Reservoir Company	Lake McIntosh Outlet Works Repair	Boulder	$1,727,100	5/1/2018 (c)
6	Dixon Canon Ditch & Reservoir Company	Dixon Reservoir Dam Improvements	Larimer	$278,100	7/1/2018 (d)
7	Bennett, Town of	Wells #3 and #6 Replacement Project	Adams/Arapahoe	$1,454,000	7/1/2018
8	North Poudre Irrigation Company	Mountain Supply Reservoir No. 10 Repairs	Larimer	$802,950	7/1/2018 (e)
9	Corsentino Dairy Farms, Inc.	Holita Dam Rehabilitation	Walsenburg	$112,716	9/1/2018 (f)
10	Grand Valley Water Users Association	Government Highline Canal Lining	Mesa	$151,500	9/1/2018
11	Sanchez Ditch and Reservoir Company	Sanchez Reservoir Outlet Rehabilitation Project	Costilla	$1,502,476	9/1/2018 (g)
12	Monte Vista, City of	Augmentation Water Rights Acquisition	Rio Grande	1,690,770	9/1/2018
13	Lupton Bottom Ditch Company	Diversion Structure Repair	Weld	606,000	10/1/2018
14	North Poudre Irrigation Company	Fossil Creek Reservoir Diversion Structure Repair	Larimer	$876,680	11/1/2018
			Total	$15,792,512	

Calendar Year 2018 has added or preserved 59,149 acre-feet of reservoir storage (a) 257; (b) 386; (c) 2,476; (d) 412; (e) 344; (f) 274; (g) 55,000

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Phased Canal Improvements Project

Riverside Ditch and Allen Extension Company

Substantially Complete January 1, 2018

Project Description

The Riverside Ditch and Allen Extension Company (Company), located near Buena Vista, owns and operates the Riverside Ditch that provides irrigation water to a 450 acre service area within Chaffee County. Through this loan the Company completed a number of phased improvements to the canal, including: repairs to the river diversion and lining of portions of the canal to reduce seepage.

P R O J E C T D A T A		
Sponsor: Riverside Ditch & Allen Extension Company	*County:* Chaffee	*Water Source:* Arkansas River
Type of Project: Ditch Rehabilitation	*Board Approval Date:* November 2009	
Terms of Loan: 2.75% for 30 years *(Original)* $186,345.00 *(Final)* $159,574.01		
Design Engineer: NRCS and Tessara Water, LLC		
Contractor: Custom Linings, Inc. , Bugling Bulls, and K&S Inc.		

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Upper Beaver Brook Dam Spillway

Lookout Mountain Water District

Substantially Complete January 1, 2018

Project Description

The Lookout Mountain Water District came to the CWCB for a loan to perform repairs and improvements to its Upper Beaver Brook Dam spillway in November of 2015, receiving approval for a loan of $ 3,099,690 in support of anticipated construction costs of $3,410, 000. The project included improvements to the existing rock-cut spillway with a new concrete labyrinth weir spillway, constructed to a level such that reservoir volume will increase by 134 acre-feet for a total storage of 391 acre-feet. Additional components included relocation of the access road due to the higher water level, installation of a new measurement flume, removal of trees in the inundation zone, replacement of the outlet works gate valve stem and staff gauge, and associated grading, monumentation, armoring, and record documentation.

These improvements will help the District provide a reliable supply of drinking water to current customers, with increased reliability for future demand and during times of drought.

P R O J E C T D A T A		
Sponsor: The Lookout Mountain Water District	*County:* Clear Creek	*Water Source:* South Fork Beaver Brook
Type of Loan: Reservoir Enlargement	*Board Approval Date:* November 2015	
Terms of Loan: at 3.25% for 30 years *(Original)* $3,099,690 *(Final)* $2,746,062.16		
Design Engineer: GEI Consultants		
Contractor: SEMA Construction		

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Emergency Supply Irrigating Ditch Repair Project

Supply Irrigating Ditch Company

Project Closeout March 1, 2018

Project Description

During the unprecedented flood of September 2013 in the tributaries to the South Platte River, a significant number of diversion structures and dams along the river corridor were damaged including the Company's ditch system. Floodwaters destroyed the diversion dam, caused heavy sedimentation in the ditch, and damaged 750 LF of ditch. Temporary repairs were completed in order to allow the Company to divert a portion of its water rights during the 2014 irrigation season. This loan provided construction funds for the permanent repairs to the diversion dam. The historic at-grade concrete dam washed out by the flood was replaced with a grouted rock ramp structure that in addition to ensure the Company could divert its full water right, provided added benefits to fish and recreational users. The structure was designed to facilitate fish passage at a variety of flows, including a fish passage notch for low flow fish passage. The design also created hydraulic conditions across the grouted rock ramp and in the tail water pool allowing for recreational use. The Company worked with FEMA to fund a portion of the permanent repairs. Construction occurred from fall 2014 to spring 2015. The final FEMA Project Closeout meeting is pending.

P R O J E C T D A T A		
Sponsor: Supply Irrigating Ditch Repair Project	*County:* Boulder	*Water Source:* Saint Vrain Creek
Type of Loan: Ditch Rehabilitation	*Board Approval Date:* November 2014	
Terms of Loan: $324,210 at 2.25% for 30 years		
Design Engineer: S_2O Design		
Contractor: Environmental Excavation, LLC		

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Outlet Works Modification Project

Town of Georgetown

Substantially Complete April 1, 2018

Project Description

The Town of Georgetown owns and operates Georgetown Lake, located on Clear Creek, along the I70 corridor, east of the continental divide. The Town was required, per a water court mandate related to its augmentation plan, to increase the outlet works capacity. The outlet works could originally release up to 260 cfs. This project was the construction of a new spillway crest gate. As a result, the Town now has the ability to release of up to 500 cfs.

P R O J E C T D A T A		
Sponsor: Town of Georgetown (Water and Sewer Enterprise)	*County:* Clear Creek	*Water Source:* Clear Creek
Type of Loan: Dam Rehabilitation	*Board Approval Date:* July 2011	
Terms of Loan: *(Original)* $2,976,975.00 at 4.5% for 30 years *(Final)* $966,021.96		
Design Engineer: NV5, Inc.		
Contractor: Lillard & Clark Construction		

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Lake McIntosh Outlet Works Repair

Lake McIntosh Reservoir Company

Substantially Complete May 1, 2018

Project Description

Lake McIntosh Reservoir Company is a mutual irrigation reservoir company formed in 2001. The Company owns Lake McIntosh Reservoir which is used as part of an exchange between the Highland Ditch Company and the Oligarchy Ditch Company.

The reservoir was constructed in 1890 and enlarged in 1902. In May 2015, a section of the reservoir's outlet pipe collapsed, creating a sinkhole which deposited soil in the outlet works pipes downstream for approximately 300 feet, rendering the reservoir's outlet works unusable. This Project restored the reservoir's outlet functionality by repairing the damaged outlet works. Phase 1 construction consisted of installing a new pipe from the sinkhole downstream to its outlet. Phase 2 construction consisted of installing a new pipe from the sinkhole upstream, under the roadway and under Platte River Power Authority switch yard to the outlet structure. Phase 1 was completed by April 2017 and Phase 2 was substantially completed in March 2018.

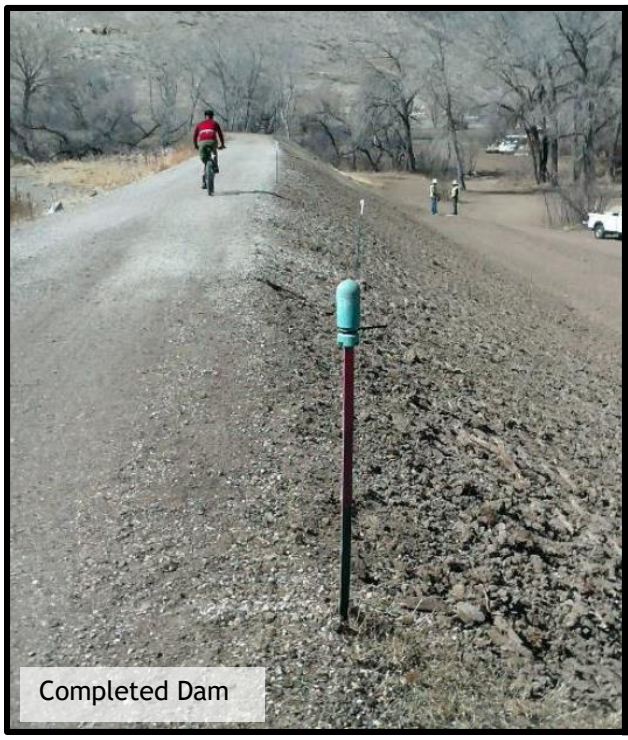
P R O J E C T D A T A		
Sponsor: Lake McIntosh Reservoir Company	*County:* Boulder	*Water Source:* St. Vrain Creek
Type of Project: Reservoir Rehabilitation	*Board Approval Date:* January 2016	
Loan Terms: 2.70% for 30 years *(Original)* $1,727,100 *(Final)* $1,727,100		
Design Engineer: Deere & Ault Consultants, Inc		
Contractor: America West Construction, LLC		

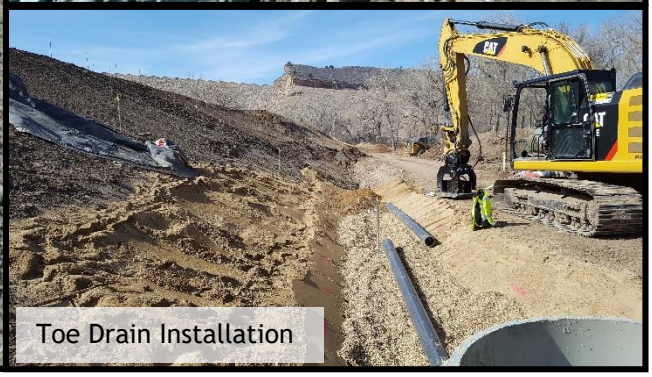
COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Dixon Reservoir Dam Improvements

Dixon Canon Ditch and Reservoir Company

Substantially Complete July 1, 2018





Project Description

Dixon Canon Ditch and Reservoir Company owns and operates the Dixon Reservoir Dam and associated ditch located in Larimer County on the west side of Fort Collins. The ditch diverts water off of Dixon Creek and provides water for outdoor irrigation to a 206-acre service area via approximately 9,000 feet of pipe and ditch. The dam was constructed in 1885 and is classified as a Significant Hazard Dam by the Dam Safety Branch of the Office of the State Engineer (SEO). The Reservoir has a decreed storage volume of 412 acre-feet. Recent SEO inspections identified areas of seepage that need to be addressed in order to maintain the full storage decrees. To address the SEO concerns, this Project installed a seepage filtration and collection system including a sand and gravel filter with a toe drain, cleanouts, and flow monitoring weirs. Construction occurred from January 2018 through April 2018.

P R O J E C T D A T A		
Sponsor: Dixon Canon Ditch and Reservoir Company	*County:* Larimer	*Water Source:* Dixon Creek
Type of Project: Reservoir Rehabilitation	*Board Approval Date:* May 2016	
Loan Terms: 2.55% for 30 years *(Original)* $280,881 *(Final)* $280,881		
Design Engineer: Gauthiere Engineering, Inc.		
Contractor: Zak Dirt, Inc.		

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Well #3 and #6 Replacement Project

Town of Bennett

Substantially Complete August 1, 2018

The Town of Bennett pr[illegible]per Arapahoe and Lower Arapahoe, and Laramie-Fox Hills aquifers. A 2014 study revealed the need to address operational reliability, efficiency, and safety of the Town of Bennett's well #3 and well #6. The replacement of the wells provided the Town with additional supply to meet demands and needed redundancy in its water supply system. Construction activity included drilling the wells, electrical work, testing, and bringing the wells online.

P R O J E C T D A T A		
Sponsor: Town of Bennett	*County:* Adams & Arapahoe	*Water Source:* Non-Tributary Groundwater
Type of Loan: Well Drilling	*Board Approval Date:* November 2014	
Terms of Loan: $1,454,400 at 3.25% for 30 years		
Design Engineer: Jehn Water Consultants and Pure Cycle Corporation		
Contractor: Hydro Resources – Rocky Mountain, Inc. (Fort Lupton, CO)		

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Mountain Supply Reservoir No. 10 Repairs

North Poudre Irrigation Company

Substantially Complete August 1, 2018

Project Description

The North Poudre Irrigation Company is a mutual ditch company established in 1901. The Company's service area encompasses approximately 28,000 irrigated acres in Larimer County north of Fort Collins near Wellington, and includes service to 14 communities and municipal water providers.

The Mountain Supply Reservoir No. 10 is owned and operated by the Company and was constructed in 1905. Major rehabilitation of the reservoir's dam was completed in 1973. In August 2015, the reservoir experienced a failure in its corrugated metal pipe (CMP) outlet, prompting the Company to drain the reservoir and the State Engineer's Office to impose a full storage restriction. Temporary emergency repairs were made in 2016 which permitted the Company to store 80 AF. This project made permanent repairs which resulted in the State Engineer's Office removing all storage restrictions. Repairs to the reservoirs outlet structure included construction of a new gate tower and walkway and lining the length of the outlet pipe using a cured-in-place pipe (CIPP) liner. Additionally, the Company made repairs to the reservoir's inlet structure off the No. 10 ditch, and installed a new spillway cutoff wall. Construction occurred from November 2017 to April 2018.

P R O J E C T D A T A		
Sponsor: North Poudre Irrigation Company	*County:* Larimer	*Water Source:* Cache la Poudre River
Type of Project: Reservoir Rehabilitation	*Board Approval Date:* March 2017	
Loan Terms: 2.50% for 30 years *(Original)* $802,950 *(Final)* $726,213.77		
Design Engineer: Tessara Water, Inc		
Contractor: Zak Dirt, Inc.		

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Holita Dam Rehabilitation

Corsentino Dairy Farms, Inc.

Substantially Complete September 1, 2018

Figure 1 – Reservoir before construction

Figure 2 – Downstream view of dam before construction

Figure 3 – Construction – Dam core

Figure 4 – Embankment reconstruction

Figure 5 – Finished dam

Project Description

Corsentino Dairy Farms, Inc. is located on 1,019 acres located approximately three miles east of the City of Walsenburg, along the north and south sides of State Highway 10. The Dairy has been in the Corsentino family since 1936 and is currently operated as an organic dairy. The primary water for the dairy operation comes from a well. The well is operated in accordance with the Corsentino Dairy plan for augmentation. The replacement water comes from the Holita Reservoir.

Holita reservoir has a storage capacity of 498 acre-feet and was built in 1889. In September of 2014 the Dairy received a letter from the Office of the State Engineer (SEO) that identified the Holita dam as unsatisfactory and restricted the storage level to five feet below the low point of the west dam crest.

Through this loan, the Dairy addressed seepage issues by reconstructing the embankment and permanently lowered the spillway to allow a storage volume of 274 acre-feet.

PROJECT DATA		
Borrower: Corsentino Dairy Farms, Inc.	*County:* Huerfano	*Water Source:* Cucharas River
Type of Loan: Reservoir Rehabilitation		*Board Approval Date:* July 2017
Loan Terms: 0.5% for 10 years (Original) ***$112,716.00*** *(Final)* ***$99,263.32***		
Design Engineer: Nicholas Kock, P.E.		
Contractor: Double M Excavating, Inc., La Veta, CO		

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Government Highline Canal Lining

Grand Valley Water Users Association

Substantially Complete September 1, 2018

Project Description

The Grand Valley Water Users Association (Association), obtained loan and grant funding for the Government Highline Canal Lining Project. The Association is the managing entity of the Bureau of Reclamation's Grand Valley Project. The Grand Valley Project facilities includes the Grand Valley Diversion Dam (also known as the Roller Dam) on the Colorado River in De Beque Canyon and the 55-mile-long Government Highline Canal. The embankment immediately below the Roller Dam is relatively narrow and separates the Government Highline Canal from the Colorado River. This section of canal was constructed around 1915. Over the last 100 years the embankment settled and degraded. Erosion within the embankment led to material loss and sinkholes. As a result of canal degradation, water flow was restricted and the canal cross section was reduced, causing a reduction in capacity of the canal channel. Through this loan the Association lined the upper section of the canal to increase the conveyance capacity.

P R O J E C T D A T A		
Sponsor: Grand Valley Water Users Association	*County:* Mesa	*Water Source:* Colorado River
Type of Project: Ditch Rehabilitation	*Board Approval Date:* September 2016	
Loan Terms: 1.55% for 30 years *(Original)* $151,500 *(Final)* $151,500		
Design Engineer: SGM, Inc.		
Contractor: Mountain Valley Contracting, Inc.		

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Sanchez Reservoir Outlet Rehabilitation Project

Sanchez Ditch and Reservoir Company

Substantially Complete September 1, 2018

Figure 1 –Before construction - original outlet tower

Figure 2 – New staff gage construction

Figure 3 – After construction – new outlet controls

Figure 4 – After construction – new intake

Figure 5 – After construction – new staff gage

Project Description

The Sanchez Ditch and Reservoir 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 original outlet included a 135-foot tall concrete gate tower. In order to operate the dam, a tramway/gondola ran along a cable and was powered by a portable gasoline generator. Because daily operation of the gate is required during irrigation season, the reliability and safety of the gondola system was a concern of the Company. Using loan and grant funds, the Company demolished the gate tower; the installed new control gates and operators; lined the outlet conduit with shotcrete; repaired the downstream outlet structure; and, installed a new perimeter drain and weir along the right side of the outlet structure to control seepage. Additional seepage monitoring was also funded through the project.

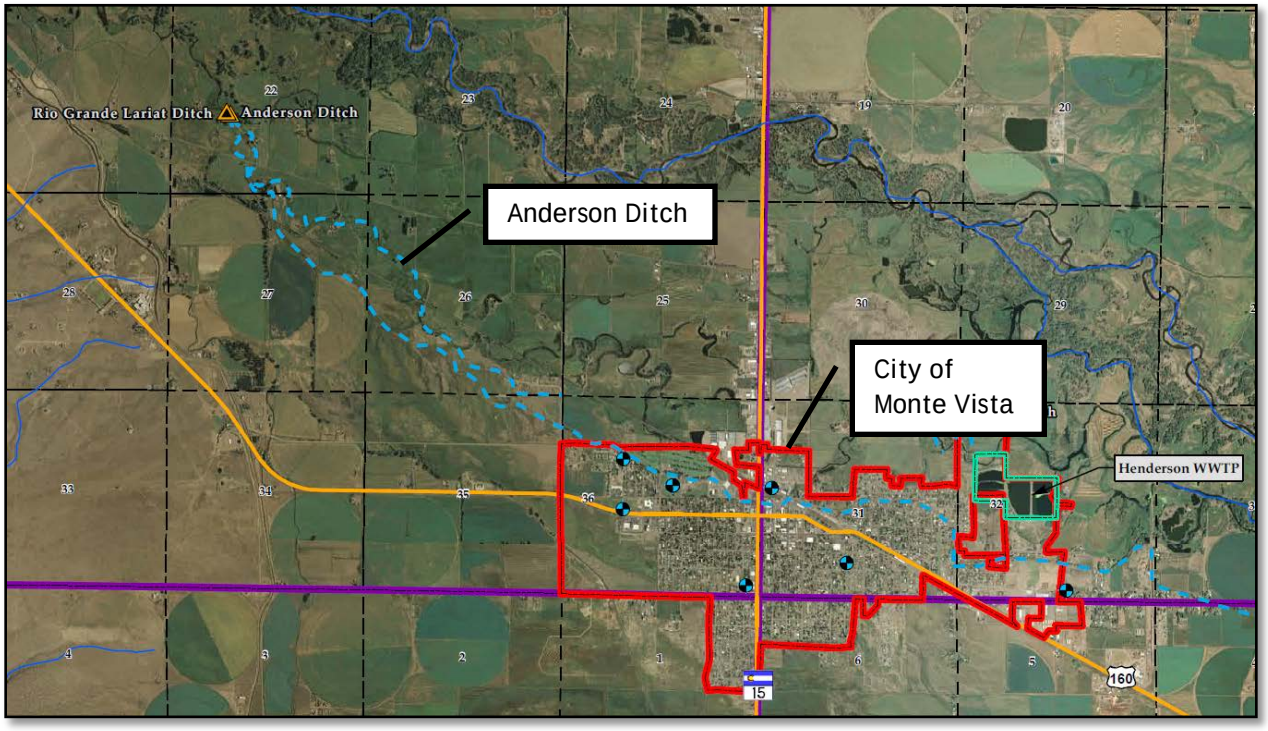
P R O J E C T D A T A		
Sponsor: Sanchez Ditch and Reservoir Company	*County:* Costilla	*Water Source:* Ventero Creek
Type of Loan: Reservoir Rehabilitation	*Board Approval Date:* September 2012	
Loan Terms: 2.0% for 40 years (Original) *$1,502,476.00 (Final)* *$1,502.465.51*	***WSRF Funding**: $914,400*	
Design Engineer: Smith Geotech & AECOM		
Contractor: Moltz Construction, Inc.		

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Water Rights Acquisition Project

City of Monte Vista

Substantially Complete September 1, 2018



Project Description

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. Recent rules from the Office of the State Engineer 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. As a result, the City needed an additional 321 acre-feet of replacement water. In order to meet this need, the City borrowed funds from the CWCB to purchase Anderson Ditch water rights and storage in the Rio Grande Reservoir to store the excess credits from the water it purchased.

P R O J E C T D A T A		
Sponsor: City of Monte Vista	*County:* Rio Grande	*Water Source:* Rio Grande River
Type of Loan: Water Rights Purchase	*Board Approval Date:* May 2010	
Terms of Loan Loan Terms: 4.5% for 30 years (Original) *$1,693,770.00 (Final)* *$1,627,359.48*		
Design Engineer: Bikis Water Consultants, LLC		
Contractor: N/A		

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Diversion Structure Repair Project

Lupton Bottom Ditch Company

Substantially Complete October 1, 2018

Figure 1 – Diversion repair on North side of diversion structure and Lupton Bottom headgate.

Figure 2 – Diversion repair on South side of diversion structure.

Figure 3 – Diversion structure.

Figures 4 & 5 – Bank stabilization upstream and downstream of diversion structure.

Figure 6 – Lupton Bottom Ditch headgate.

Project Description

The Lupton Bottom Ditch Company diverts water from the South Platte River near Wattenberg in Weld County. The original check dam was built in 1949 and the gates were replaced in 2001. Damage to the structure began when high river flows overtopped the rock dam and scoured a large hole on the downstream side and subsequently extended that scour into the structure. The structure was initially damaged during September 2013 flooding and further damaged in subsequent high river flows. This repair work was completed in a two-stage process due to the requirement for construction to occur during low flow conditions within the river. During the first stage, upstream stabilization and installation of sheet piling and the construction of a concrete apron occurred. The downstream side of the structure was stabilized with grouted boulders. The second stage included rebuilding the rock dam on the southern side of the diversion structure.

With this project, the Company repaired and improved the diversion and intake structures, provided water deliveries to the shareholders, and improved operation safety. Design commenced in 2017, project construction occurred in early 2018 through summer 2018 and construction is complete.

P R O J E C T D A T A		
Sponsor: Lupton Bottom Ditch Company	*County:* Weld	*Water Source:* South Platte
Type of Loan: Diversion Structure Repair	*Board Approval Date:* January 2018	
Loan Terms: 1.6% for 10 years (Original) ***$606,000 (Final) $561,832***		
Design Engineer: Civil Resources, LLC		
Contractor: Zak Dirt, Inc.		

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Fossil Creek Res Emergency Inlet Diversion Repair

North Poudre Irrigation Company

Project Closeout November 1, 2018

Project Description

During the unprecedented flood of September 2013 in the tributaries to the South Platte River, a significant number of diversion structures and dams along the river corridor were damaged including the Company's Fossil Creek Reservoir inlet diversion off the Cache la Poudre River. The entire concrete dam spanning the river was undermined and washed out during the flood. This Project repaired the existing diversion structure by rebuilding the check dam, abutment, and bypass gate. Additionally, the Company worked with Colorado Parks and Wildlife to incorporate a fish ladder on the north end of the check structure. Construction occurred from December 2015 to March 2016. The Project was eligible for FEMA public assistance and received grant funding to help offset the construction costs.

P R O J E C T D A T A		
Sponsor: North Poudre Irrigation Company	*County:* Larimer	*Water Source:* Cache la Poudre River
Type of Loan: Diversion Rehabilitation	*Board Approval Date:* October 2013	
Terms of Loan: (Original) $876,680 at 2.35% for 32 years *(Disbursed)* $846,222.20		
Design Engineer: Ronald H. Slosson, P.E.		
Contractor: Naranjo Civil Constructors		

	Projects	County	Loan Amount	Design Status	Const. Start/End	Proj. Status	PM	Status Description/Update
Projects in Design or Construction								
1	Bessemer Irrigation Ditch Company >Landslide Stabilization and Ditch Lining CT2018-2829	Pueblo	$909,000	80%	March 2018 - Dec 2019	50%	RP	Ditch stabilization phase complete. Backfill complete along wall. Winter 2019 design/bid ditch lining.
2	Big Elk Meadows Association > Emergency Raw Water Storage Repair CT2015-039 (C150391)	Boulder/ Larimer	$2,020,000	80%	July 2014 - Sept 2019	60%	JH	Project will rebuild 5 dams damaged in 2013 flood. 3 dams completed: Mirror Dam (2015), Rainbow Dam (2016), Willow Dam (2017). Meadow Dam construction started Oct 2017. Sunset Dam design pending. Loan increased at March 2017 Board meeting, 0% interest thru 2020.
3	Bonus Ditch Company > St. Vrain Diversion Replacement CT2018-2081	Longmont & Boulder	$1,309,970	100%	Dec 2018 - Apr 2019	25%	JH	City of Longmont is performing project management on behalf of the ditch company. Project bid and contractor selected in November. Construction began in of December 2018.
4 - CHATFIELD Reallocation Project - First Cost of Storage								
a	Castle Pines North Metropolitan District >(C150404A) CT2018-1617	Arapahoe Douglas Park Weld	$723,160	N/A	N/A	0%	JH	This contract is to provide reimbursement for the Chatfield Reallocation Project, specific to the "first cost of storage." Payment will be due once storage in the new reservoir pool is allowed (after Phase 1 Mitigation contract is complete).
b	Centennial Water & Sanitation District >(C150405A) CT2016-2053	Arapahoe Douglas Park Weld	$4,978,290	N/A	N/A	0%	JH	
c	Center of Colorado Water Conservancy District >(C150406A) CT2016-2047	Arapahoe Douglas Park Weld	$94,637	N/A	N/A	0%	JH	
d	Central Colorado Water Conservancy District >(C150407A) CT2016-2057	Arapahoe Douglas Park Weld	$3,187,560	N/A	N/A	0%	JH	
5 - CHATFIELD Reallocation Project - Phase 1 Mitigation								$39,334,349
a	Castle Pines North Metropolitan District >(C150404B) CT2018-1616 *$	Arapahoe Douglas Park Weld	$5,462,484	100%	Sept 2017 - Fall 2019	75%	JH	This contract is to provide reimbursement for the Chatfield Reallocation Project, for engineering, recreation facilities construction, on-site mitigation, off-site mitigation, and mitigation monitoring. Phase 1 covers the work required before storage is allowed. Several of the modified recreation areas within the park are already completed and are now open to the public including the North Boat Ramp and the perimeter road. Remaining construction activities and revegetation efforts along the west side of the Park associated with Season One construction are expected to be completed by December 2018. Impacted construction areas in Season Two include the Marina (docks and landside), South Boat Ramp, Roxborough Cove, Plum Creek Day Use Area, Kingfisher, Gravel Pond, and a portion of the Perimeter Road from Jamison
b	Centennial Water & Sanitation District >(C150405B) CT2016-2055	Arapahoe Douglas Park Weld	$37,573,717	100%	Sept 2017 - Fall 2019	75%	JH	
c	Center of Colorado Water Conservancy District >(C150406B) CT2016-2048	Arapahoe Douglas Park Weld	$511,363	100%	Sept 2017 - Fall 2019	75%	JH	

	Projects	County	Loan Amount	Design Status	Const. Start/End	Proj. Status	PM	Status Description/Update
d	Central Colorado Water Conservancy District >(C150407B) CT2016-2058	Arapahoe Douglas Park Weld	$19,812,059	100%	Sept 2017 - Fall 2019	75%	JH	Kingfisher, Gravel Pond, and a portion of the Perimeter Road from Sunrise Day Use Area to the Park Headquarters. Overall, CRMC is anticipating reopening a large majority of the recreational areas impacted by Memorial weekend 2019.
6 - CHATFIELD Reallocation Project - Phase 2 Mitigation								$7,000,310
a	Castle Pines North Metropolitan District >(C150404C) CT2018-1619	Arapahoe Douglas Park Weld	$1,587,720	0%	Fall 2019 - Summer 2020	0%	JH	This contract is to provide reimbursement for the Chatfield Reallocation Project, for engineering, recreation facilities construction, on-site mitigation, off-site mitigation, and mitigation monitoring. Phase 2 covers the work remaining after storage is allowed. It was originally estimated Phase 2 work could last until 2028. However, the on-site mitigation in Phase 1 is proving more effective than planned, lessoning the amount of off-site mitigation in Phase 2. It is currently ancitipated that Phase 2 could be completed by summer 2020.
b	Centennial Water & Sanitation District >(C150405C) CT2016-2056	Arapahoe Douglas Park Weld	$10,934,260	0%	Fall 2019 - Summer 2020	0%	JH	
c	Central Colorado Water Conservancy District >(C150407C) CT2016-2060	Arapahoe Douglas Weld	$7,000,310	0%	Fall 2019 - Summer 2020	0%	JH	
7	Centenial Irrigating Ditch Company >Centenial Diversion Replacement CT2108-1999	Rio Grande	$232,300	100%	Jan 2018 - Feb 2019	95%	JH	This project is part of the Rio Grand Five Ditches WSRF Project and consisted of replacing the existing diversion dam. Contractor mobilized to site in January 2018 and construction was substantially completed by the end of March 2018. Miscellaneous site clean up will occur fall 2018/winter 2019 and then final billing will occur.
8	Central Colorado Water Conservancy District >Shores Lakes Pond C Infrastructure Improvement CT2018-2851	Weld	$2,367,440	100%	Feb 2019 - Dec 2019	0%	JH	This project will increase the efficiency by which the Shores Lakes can capture and release water for augmentation use by making infrastructure improvements at the site of an old gravel pit. Project was bid, contractor selected, but hasn't started yet. Construction to be complete by Dec 2019.
9	Chilcott Ditch Comapny >Chilcott Augmentation Station CT2019-2252	El Paso	$505,000	100%	Fall 2018 - Spring 2019	5%	RP	Construction to begin in Spring 2019. Out for bid November 2018. PreCon 12/18/2018. Construction begins Jan2019.
10	Church Ditch Water Authority >Ditch System Improvements CT2018-1335	Jefferson	$3,615,000	80%	Dec 2017 - Oct 2019	60%	RP	Loan covers 5 individual projects within the Church Ditch system. Leyden Flushing Structure, Headgate 53 Retaining Wall complete. The Area 15 Ditch Lining, Ford Street Siphon, and Legacy Farms Culvert will be completed after the 2018 irrigation season. Area 15 Ditch lining - NTP anticipated Dec 2018.
11	Consolidated Ditch and Headgate Co >Consolidated Diversion and Headgate Replacement CT2018-1017	Rio Grande	$1,010,000	100%	Jan 2018 - Mar 2019	60%	JH	This project is part of the Rio Grand Five Ditches WSRF Project and will consist of replacing the existing diversion dam and headgate. Contractor mobilized to site in January 2018 finished the headgates and trash rack structures by the end of March 2018. Dam scheduled for construction Fall 2018 thru Spring 2019.
12	Duke Ditch Company >Piping the Duke Ditch CT2017-915 CTGG1 2017-212 (WSRF)	Delta	$90,000	100%	No Est.	0%	AM	NRCS finalized the design in August 2018. Federal funding is on hold.
13	Fort Lyon Canal Company >Adobe Creek Dam Rehabiliatation CT2018-1960 CTGG1 2018-806 (WSRF)	Bent	$8,181,000	100%	Fall 2017 - Spring 2020	25%	RP	Waiting Dam Safety conditional approval 8/31/2018. Out for bid 7/31/2018. Award 9/5/2018. PreCon 9/13/2018. Concrete placements for outlet conduits and forming for structure walls 12/2018.

	Projects	County	Loan Amount	Design Status	Const. Start/End	Proj. Status	PM	Status Description/Update
14	Fowler, Town of >Augmentation Pipeline Project C150359 (CT2015-054)	Otero	$277,245	100%	Fall 2018 - Spring 2019	0%	RP	Engineering completed. Easement and appraisal processes causing delay; might result in litigation per disc with Town 5/23/17. Bid process on hold. tt Kelly (Town Clerk) - no updates, project on hold until Fall 2018.
15	Fruitland Irrigation Company >Tunnel and Canal Renvation CT2019- 2019-2848 CTGG1 2019-2449 CTGG1 2475	Delta & Montrose	$1,746,290	25%	Spring 201x - Fall 202x	0%	RP	Contract needed by - 11/30/2018 Sept 2018 letter from Bureau of Reclamation recvd. Require letter prior to CWCB contract.
16	Grand Mesa Water Conservancy District >Peak Res. & Blanche Park Res. Rehabilitation C150354 (CT2015-061)	Delta	$227,250	100%	Mar 2013 - Sept 2019	50%	JH	Construction on Peak Reservoir began in the 2013 season and was completed in Oct 2014. Blanche Park construction was delayed due to Forest Service permit issues. Access road construction began Fall 2018 and dam construction will begin summer 2019.
17	Grand Valley Water Users Association >Grand Valley Power Plant Rehabilitation CT2017-2875 - SCTF	Mesa	$1,717,000	100%	Spring 2019 - Fall 2020	0%	JH	Project was delayed due to a Dept of the Interior review of pending projects nationwide. Design is 100% complete but has not had final approval from Bureau of Reclamation. Final approval on electrical anticipated end of November, for a December go/no-go decision.
18	Huerfano County Water Conservancy District >Regional Augmentation Project C150364 (CT2015-047) CTGG1 2015-528 (WSRF)	Huerfano	$2,222,000	100%	Jan 2014 - Jun 2019	60%	RP	Land and water rights purchase occurred in January 2014. Camp Ranch augmentation site construction is complete. Phase I at Sheep Mountain Ranch augmentation site was completed in Oct 2017. Sheep Mtn. Ph2 construction of access roads and pipeline to Aug. Pond under construction.
19	Lake Durango Water Authority >Source Water Supply Project C150317 (CT2015-013) CTGG1 2015-370	LaPlata	$2,525,000	100%	Oct 2016 - July 2018	100%	KR	Project Complete. Substantial Completion 1/1/2019
20	Lamar, City of >Repurposing of Wells 12 and 13 CT2017-917 CTGG1 2017-211 (WSRF)	Prowers	$101,000	100%	Jun 2017 - Jul 2019	50%	RP	City staff is doing construction. Work has been postponed due to staffing/workload issues. Staffing changes. JVA additional scope approved by CWCB Board Sept2018. Approved scope extension new well pump and interconnecting piping.
21	Larimer & Weld Irrigation Company >Headgate Structure Replacement CT2017-2253	Larimer & Weld	$681,750	100%	Nov 2017 - Apr 2018	98%	JH	Constructin began in November 2017 and was substantially completed in April 2018. Final billing remains.
22	Left Hand Water District >Participation in Southern Water Supply Project II CT2018-2028	Broomfield & Weld	$10,000,000	100%	July 2018 - March 2020	20%	JH	Project is managed by Northern Water with Left Hand Water District paying for its prorata share based on pipeline capacity. Contractor mobilized July 2018 and began laying pipe at the end of August.
23	Missouri Heights Mountain Meadow Irr Company >Ditch Piping Phase B CT2019-2241	Garfield	$303,000	100%	Oct 2018 - Spring 2020	50%	JH	Phase B1 lining began in October 2018 and completed Dec 2018. Phase B2 lining will begin Fall 2019 if NRCS approves grant funds for Phase B2.
24	Orchard Mesa Irrigation District >Grand Valley Power Plant Rehabilitation CT2017-2878 - SCTF	Mesa	$1,717,000	100%	Spring 2019 - Fall 2020	0%	JH	Project was delayed due to a Dept of the Interior review of pending projects nationwide. Design is 100% complete but has not had final approval from Bureau of Reclamation. Final approval on electrical anticipated end of November, for a December go/no-go decision.

	Projects	County	Loan Amount	Design Status	Const. Start/End	Proj. Status	PM	Status Description/Update
25	Orchard Ranch Ditch Company >Orchard Ranch Ditch Pipe Project CT2016-2795 POGG1 2017-493	Delta	$151,500	100%	Dec 2018 - Jun 2020	25%	RP	Design and permitting work is underway. Construction is expected to begin in Fall 2018. PreBid 7/23/18. Material supply issue - JUB redesign and rebid 10/2018. Construction begin 12/2018.
26	Overland Ditch and Reservoir Company >Overland Reservoir Rehabilitation C150206 (CT2015-034)	Delta	$1,141,300	50%	No Est Permitting	0%	KR	Permitting issues are being addressed to enlarge reservoir. Company is concerned about the impact of increased costs to the project. Staff reviewing project with Borrower to determine feasibility.
27	Pueblo Consevancy District > Arkansas River and Wildhorse Creek Levees CT2019-366	Pueblo	$17,170,000	90%	Spring 2015 - Fall 2020	90%	RP	Phases 1-4 complete. KRS awarded Phase 5 Oct 2018. Funds approved June 2018. Phase 5 under construction - removing, replacing concrete where Ph4 ended. Phase 5A under construction - grouting, filling voids in toe of levee for future Ph6.
28	Riverside Reservoir and Land Company >Emergency Spillway Project C150291 (CT2015-026)	Weld	$2,838,100	100%	July 2018 - Jun 2019	99%	RP	Plans SEO approved, preparing bid package. Construction timing non-irrigation season. Contract extension approved through 12/31/2018. Awarded Connell Resources April 2018. Loan extension to 6/30/2019. Final walkthru 12/14/18
29	Roxborough Water and Sanitaion District >Ravenna Development Interconnect CT2019-2250	Douglas	$1,584,690	100%	Nov 2018 - Feb 2019	40%	JH	This Project will connect the Ravenna water service area into Roxboroughs water system. Project bid and awarded in October 2018 for a construction start of November 2018.
30	San Luis Valley Canal Company >San Luis Valley Canal Headgate Construction CT2019-2046	Rio Grande	$303,000	100%	Jan 2019 - April 2019	5%	JH	This project is part of the Rio Grand Five Ditches WSRF Project and consists of replacing the existing diversion dam. Bids were received in October 2018. Contractor selected and mobilized onsite in Jan 2019.
31	San Luis Valley Irrigation District >Rio Grande Reservoir Rehabilitation CT-2018-3303, CTGG1-2018-1805	Hinsdale, Rio Grande	$15,000,000	100%	Aug 2018 - June 2020	15%	KR	Moltz Constructors has mobilized to the site. Batch plant has been built. Reservoir has been lowered. Rock bolting in tunnel and upstream tunnel opening concrete work currently occuring.
32	St. Vrain & Left Hand Water Conservancy District >Lake No. 4 Outlet Pipeline Repair CT2017-3213	Boulder	$619,130	100%	Spring 2019 - Spring 2020	0%	JH	Project is being done in partnership wtih Emergency Rock'n WP Ranch Lake No. 4 Repair, as well as repairs to Boulder County's West Lake and A-Frame Lake. County is lead agency for all projects and plans to bid all projects under one contract in early 2019.
33	St. Vrain & Left Hand Water Conservancy District > Emergency Rock'n WP Ranch Lake No. 4 Repair CT2016-2452	Boulder	$4,545,000	100%	Spring 2019 - Spring 2020	0%	JH	Project is being done in partnership wtih Lake 4 Outlet Pipeline Repair, as well as repairs to Boulder County's West Lake and A-Frame Lake. County is lead agency for all projects and plans to bid all projects under one contract in early 2019.
34	Southeastern CO Water Conserv. District >Pueblo Dam Hydroelectric Project CT2018-833	Pueblo	$16,725,600	100%	June 2017 - Fall 2019	95%	RP	Construction beginning fall 2017. District anticipates power production by fall of 2018. Tie-in to SDS complete April 2018. Turbines delivered. Waiting on transformer approval from Black Hills. Siding powerhouse complete. Turbine and generator placement and fiber optic line approval.
35	Town of Firestone >Storage Development and Water Rights Purchase CT2017-2880	Weld	$10,000,000	95%	May 2018 - Dec 2019	50%	RP	LG Everist to complete mining and reclamation of future reservoir in Fall 2017/Winter 2018. Lower Boulder water rights purchased in July 2017. Final design pending - engineer looking at filling reservoir via wells/pipelines instead of diversion off river. Change case application to be filed 2nd half of 2017 for reservoir water rights. Want to look at addtl water supply.

	Projects	County	Loan Amount	Design Status	Const. Start/End	Proj. Status	PM	Status Description/Update
36	Trinchera Irrigation Company >Mountain Home Dam Outlet Rehibilitation Phase III CT2018-3122 CTGG1 2018-1773 (WSRF)	Costilla	$756,490	100%	Oct 2018 - Feb 2019	60%	JH	This is a loan/grant project to replace outlet valves at Trinchera Reservoir. Company received a loan increase to add outlet lining. Construction started October 2018 and is schedule to finish by February 2019.
37	Tunnel Water Company >Laramie-Poudre Tunnel Rehabilitation CT2016-2001	Larimer	$1,717,000	100%	Sept 2015 - Fall 2019	55%	JH	Phase 1 (Inlet) complete in 2016. Phase 2 (outlet) construction was dealyed due to need to reroute access road. Construction of Phase 2 started fall 2018, stopped for winter, and will resume fall 2019. Company received a loan increase at March 2018 meeting to fully cover expected Phase 2 costs.
38	Walsenburg, City of > City Lake Dam Rehabilitation & Enlargement CT2019-648 Grant CTGG1 2019-094	Huerfano	$6,889,210	100%	Jan 2019 - May 2019	0%	AM	Construction scheduled to begin January of 2019. Kirkland Construction out of Rye, CO was awarded the contract.
39	Wiggins, Town of >Wiggins Recharge Facility at Glassey Farms CT2018-892	Morgan	$2,408,850	95%	Spring 2018 - Summer 2019	0%	JH	Town purcahsed Galssey Farms in 2017. Final design of the project is pending, looking for spring construction. Town is finishing agreement with Morgan Community College to allow land to be used for an experimental precision agricultural program.
40 -WISE Project - Phase 1 Infrastructure								$16,802,501
a	Cottonwood W&S Dist - C150408B (CT2015-106)	Douglas/ Arapahoe	$2,636,100	100%	Spring 2015 - Dec 2018	80%	RP	Infrastructure to treatment plant completed. 42-inch Pipeline construction on Ridgeway line continues. E470 bore complete. All lines in ground and connections in place. Next step, testing. Waiting on water treatment piece before startup testing in May 2018. Ridgegate pipeline complete - punchlist items. WISE system has been delivering water since August of 2017 as connection come online. All but 2 members connected to the pipeline and those connections have been tested. Centennial Water and Sanitation has built their connection and is working on finalizing the controls programing. Anticipate CWSD start up around Fall 2018. Pinery working on physical connection and anticipate accepting water Fall 2018.
b	Inverness W&S Dist - C150409B (CT2015-118)	Douglas/ Arapahoe	$1,181,700	100%	Spring 2015 - Dec 2018	40%	RP	
c	Parker W&S Dist - C150410B (CT2015-108)	Douglas/ Arapahoe	$6,785,321	90%	Spring 2015 - Dec 2018	60%	RP	
d	Pinery (Den SE WSD)C150411B (CT2015-085)	Douglas/ Arapahoe	$6,199,380	90%	Spring 2015 - Dec 2018	60%	RP	
41 - WISE Project - Phase 2 Infrastructure								$7,400,078
a	Cottonwood W&S Dist - C150408C (CT2015-105)	Douglas/ Arapahoe	$1,127,160	0%	Spring 2018 - Fall 2021	0%	RP	Binney Connection Pipeline of Water Infrastructure and Supply Efficiency project will increase WISE flow capacity to 30MGD and provide infrastructure from Aurora Binney Facility to SMWA. Prebid 11/15/18.
b	Inverness W&S Dist - C150409C (CT2015-119)	Douglas/ Arapahoe	$1,427,130	0%	Spring 2018 - Fall 2021	0%	RP	
c	Parker W&S Dist - C150410C (CT2015-109)	Douglas/ Arapahoe	$3,418,658	0%	Spring 2018 - Fall 2021	0%	RP	

	Projects	County	Loan Amount	Design Status	Const. Start/End	Proj. Status	PM	Status Description/Update
d	Pinery (Den SE WSD)C150411B (CT2015-086)	Douglas/ Arapahoe	$1,427,130	0%	Spring 2018 - Fall 2021	0%	RP	
42 - WISE Project - DIA Connection								
a	Cottonwood W&S Dist - C150408D (CT2015-104)	Douglas/ Arapahoe	$363,600	35%	N/A	35%	RP	Annual disbursment to be made on this loan through 2021.Design Status indicates percent of funds disbursed to date.
b	Inverness W&S Dist - C150409D (CT2015-120)	Douglas/ Arapahoe	$454,500	35%	N/A	35%	RP	
c	Parker W&S Dist - C150410D (CT2015-110)	Douglas/ Arapahoe	$1,099,890	60%	N/A	60%	RP	
d	Pinery (Den SE WSD)C150411B (CT2015-087)	Douglas/ Arapahoe	$454,500	60%	N/A	60%	RP	
	Projects Under Contract		$242,047,744	100%				
	Approved Projects - Not Under Contract							
a	Florida Consolidated Ditch Company >Hess Lateral Improvement CT2019-XXXX CTGG1 2016-XXXX (WSRF)	La Plata	$1,085,750	0%	Spring 201x - Fall 202x	0%	AM	Contract need by - unknown (Waiting on CDOT contract) Loan contract in their hands since 12/2017 - Peg
b	San Juan Water Conservancy District >Dry Gultch Reservior Land Acquistion CT2018-XXXX	Archuleta	$2,000,000	0%	Spring 201x - Fall 202x	0%	JH	Contract needed by - Postponed Indefinitely CWCB approval is conditioned on voters approving debt. Debt approval failed at November 2017 election. District is regathering to determine if/how/when to move the project forward.
c	Southeastern CO Water Conserv. District > Arkansas Valley Conduit C150238	Crowley	$40,000,000	0%	Spring 201x - Fall 202x	0%	KR	Contract needed by - > 12months Pending Federal Appropriation. Southeastern's Pueblo Dam Hydro project was taken out of these loan funds.
d	Municipal Subdistrict >Windy Gap Project CT2019-XXXX	Larimer	$90,000,000	0%	Spring 201x - Fall 202x	0%	JH	Contract needed by - April 2018? Contracts waiting on participant water storage agreements with Northern.

	Projects	County	Loan Amount	Design Status	Const. Start/End	Proj. Status	PM	Status Description/Update
e	Julesburg Irrigation District >Diversion Structure Rehabilitation CT2019-XXXX	Sedgwick	$3,341,080	0%	Spring 201x - Fall 202x	0%	RP	Contract needed by - unknown Per Rachel-there is a delay before Julesburg is ready to execute a loan contract. The District seeking additional funding. They plan to gather additional funding sources prior to holding special election. This project is not a rush in any way at this point./no BOL needed just AOL
f	Ogilvy Irrigating and Land Comapny >Seely Reservoir Dredging CT2019-XXXX CTGG1 2019-XXXX (WPG)	Weld	$2,274,520	0%	Spring 201x - Fall 202x	0%	RP	Contract needed by - unknown (permitting considerations being made) Permitting/Eval Jul 2018 and Construction Aug 2018 Peg waiting on AOL all contracts signed by borrower.
g	Central Colorado WCD >Walker Recharge CT2019-XXXX	Weld	$2,272,500	0%	Fall 2019 - Spring 2020	0%	JH	Contract needed by - Contract Pending 2019 Projects Bill
h	Groundwater Management Subdistrict of CCWCD >Walker Recharge CT2019-XXXX	Weld	$9,847,500	0%	Fall 2019 - Spring 2020	0%	JH	Contract needed by - Contract Pending 2019 Projects Bill
i	Well Augmentation Subdistrict of CCWCD >Walker Recharge CT2019-XXXX	Weld	$3,030,000	0%	Fall 2019 - Spring 2020	0%	JH	Contract needed by - Contract Pending 2019 Projects Bill
j	Arabian Acres >Automatic Meter Implementation CT2019-XXXX	Teller	$404,000	50%	Fall 2018 - Fall 2019	0%	RP	Contract needed by - January 30, 2019
	Not Under Contract SubTotal =		$154,255,350					
	Grand Total =		$396,303,094					

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Landslide Stabilization and Ditch Lining Project

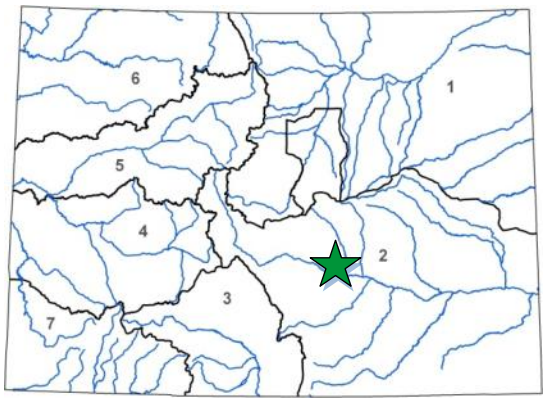
Bessemer Irrigation Ditch Company

January 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$900,000
CWCB Loan (with Service Fee):	$909,000
Loan Term and Interest Rate:	20 years @ 1.65%
Funding Source:	Construction Fund

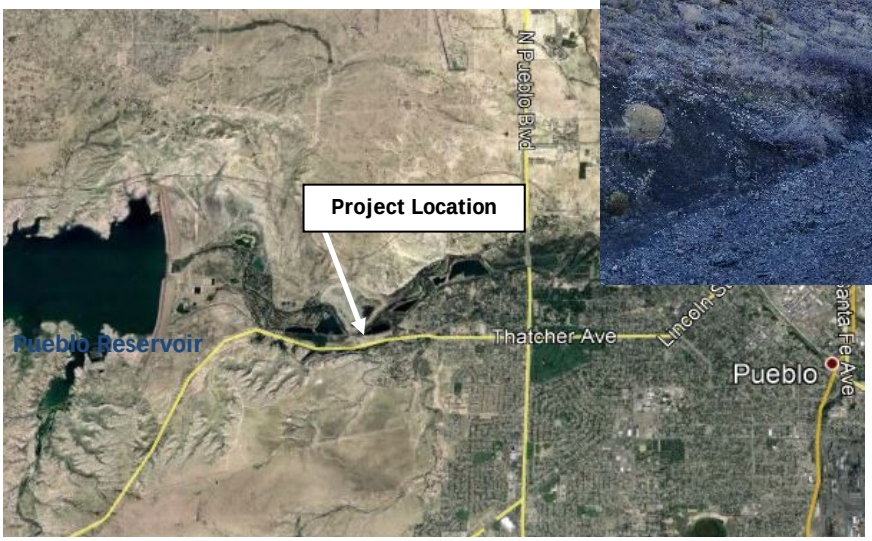
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
62%	38% Low - 0% Mid -0% High	0%

PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Diversions:	71,600 AF



LOCATION			
County:			Pueblo
Water Source:			Arkansas River
Drainage Basin:			Arkansas
Division:	2	*District:*	14

The Bessemer Ditch Company was incorporated in 1888 and construction of the ditch began in 1889. It serves nearly 20,000 irrigated acres in Pueblo County and provides water for municipal use. In the summer of 2017, land along limestone bluffs, approximately 2 miles east of Pueblo Dam, started sliding away from the Bessemer Ditch canal. The landslide area is approximately 200 feet wide. Stabilization and corrective work will occur in two stages; mechanical stabilization and ditch lining. Mechanical stabilization of the slide area will protect the canal and provide width for access and maintenance. The second stage of work includes synthetic liner installation, extending upstream and downstream from the slide area 1200 lineal feet to control canal seepage. Construction is expected to begin in January 2018.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Emergency Raw Water Storage Repair

Big Elk Meadows Association

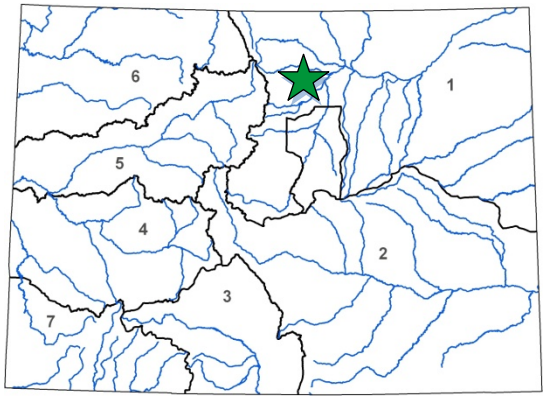
March 2017 Board Meeting

(Loan Increase)

LOAN DETAILS	
Project Cost:	$4,162,453
CWCB Loan:	$2,020,000
Loan Term and Interest Rate:	6-Yrs @ 0%, 30-Yrs @ 2.75%
Funding Source:	Severance Tax PBF

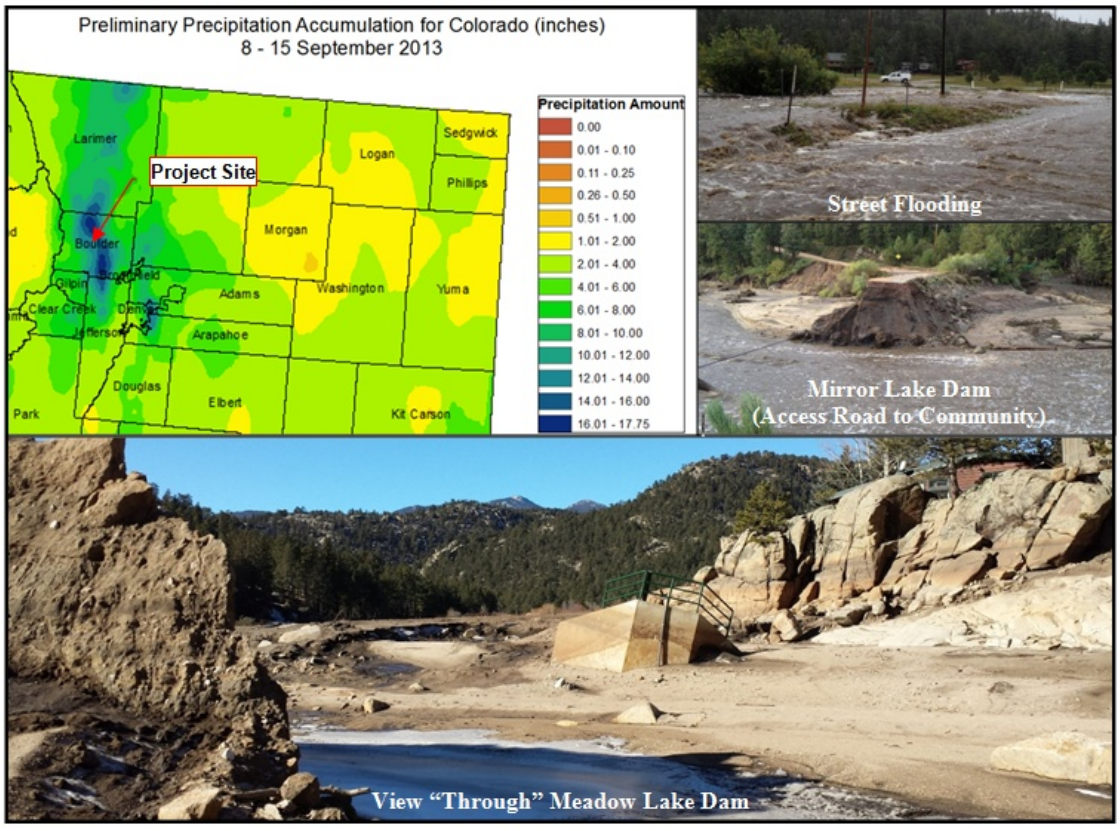
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	0% Low - 100% Mid - 0% High	0%

PROJECT DETAILS	
Project Type:	Reservoir Rehabilitation
Water Storage Preserved:	108 AF



LOCATION			
County:	Boulder/Larimer		
Water Source:	W. Fork Little Thompson R.		
Drainage Basin:	South Platte River		
Division:	1	*District:*	4

During the unprecedented flood of September 2013 in the tributaries to the South Platte River, a significant number of diversion structures and dams along the river corridor were damaged. Measured rainfall in and around Big Elk Meadows exceeded the 1,000-year Average Recurrence Interval for rainfall. Flow along the West Fork reached historic levels and resulted in the destruction of all five dams; both flow monitoring stations; the community's access road (CR-47); the majority of interior roads; and the water, power, and telephone services. The purpose of this project is to restore the community's water supply by reconstructing the five dams and two monitoring stations. Two of the five dams have been rebuilt and the Association is seeking an increase to the emergency loan to help with its cash flow during construction and through the FEMA grant reimbursement period.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

St. Vrain Diversion Replacement

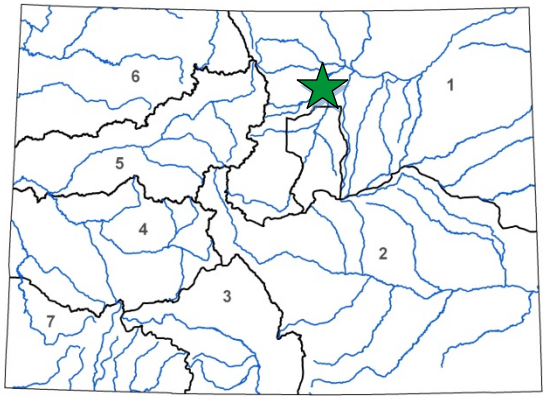
Bonus Ditch Company

September 2017 Board Meeting

LOAN DETAILS	
Project Cost:	$1,297,000
CWCB Loan (with Service Fee):	$1,309,970
Loan Term and Interest Rate:	30 Years @ 2.90 %
Funding Source:	Severance Tax PBF

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
2%	0% Low - 52% Mid -46% High	0%

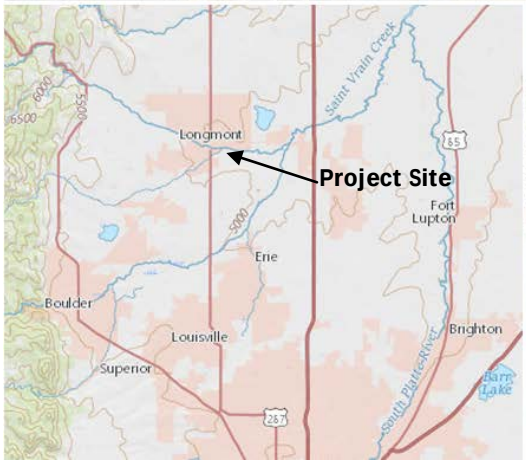
PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Delivery:	2,221 AF

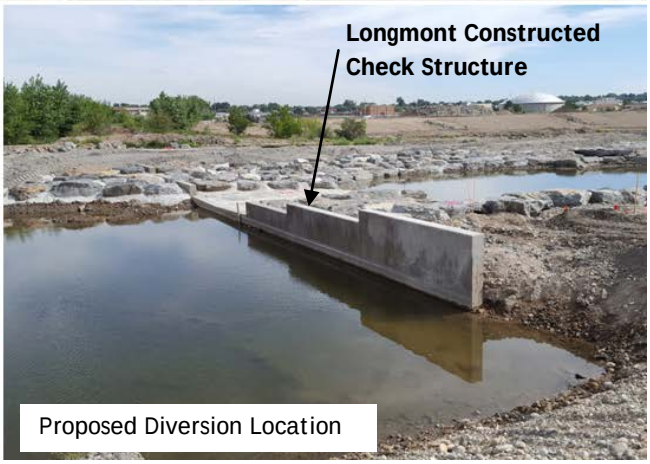


LOCATION			
County:			Boulder
Water Source:			St Vrain Creek
Drainage Basin:			South Platte
Division:	1	*District:*	5

The Bonus Ditch irrigates open space property leased to farmers in Boulder County and Weld County. Its diversion structure on St. Vrain Creek was destroyed during the September 2013 flood in the South Platte Basin.

The Company is working with Longmont under the Resilient St. Vrain (RSV) project, a multi-year project to fully restore the St. Vrain Greenway trails and improve the St. Vrain Creek channel to protect people and property from future flooding. The Company's diversion structure is located with the "City Reach" of the RSV project. The selected alternative for repairing the diversion structure fits with the goals of the RSV project. The Company has an approved Project Worksheet with FEMA to cover the "like for like" replacement cost of the project. Construction of the repair project is on hold until FEMA acts on a funding request to instead fund an "improved project" as replacing the diversion like for like is no longer feasible due to the post flood channel condition, and does not fit with the goals of the RSV project.





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Colorado Water Conservation Board
Department of Natural Resources

Castle Pines North Metropolitan District

Chatfield Reallocation Project

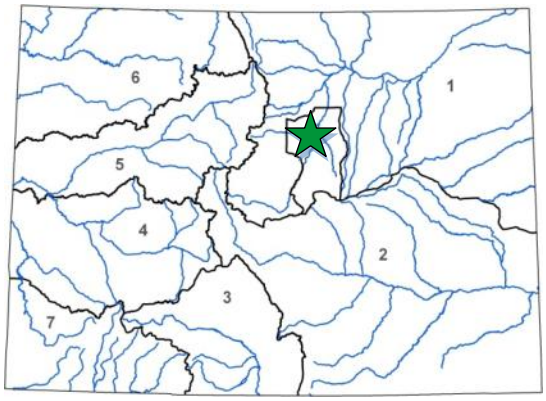
January 2018 Board Meeting

(Loan Increase)

LOAN DETAILS	
Project Cost:	$8,350,776
CWCB Loan (with Service Fee):	$7,773,364
Loan Term and Interest Rate:	30 years @ 3%
Funding Source:	Severance Tax Perpetual Base Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	0 % Low - 0% Mid -100% High	0%

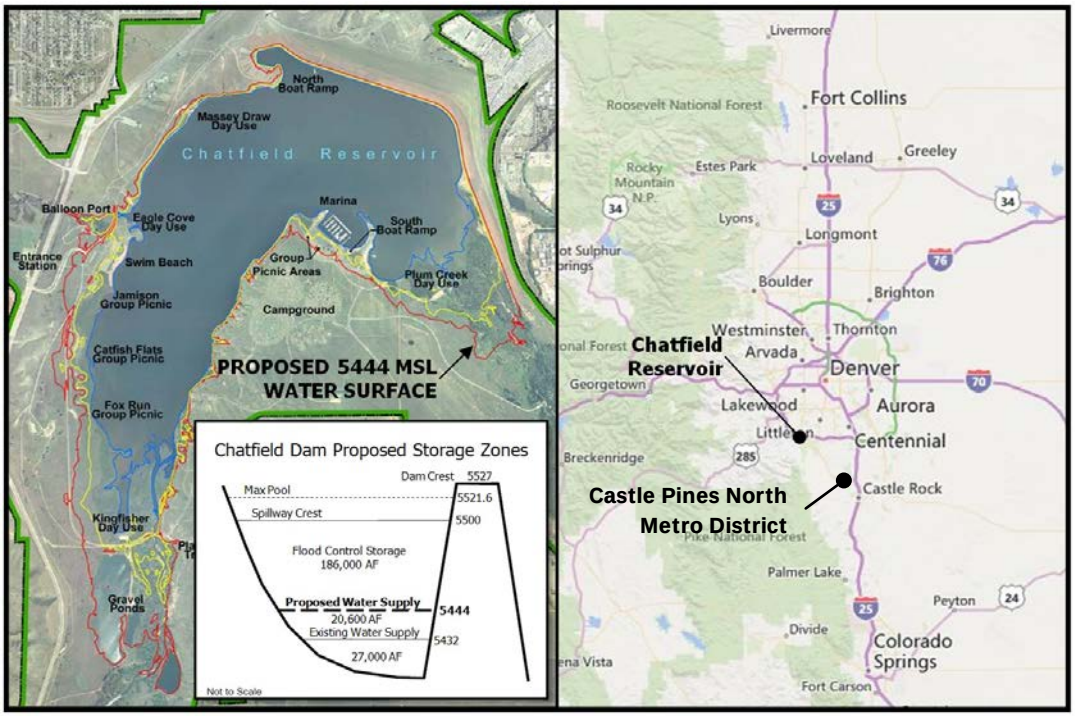
PROJECT DETAILS	
Project Type:	Reservoir Storage
New Storage:	1,006 AF



LOCATION			
County:			Douglas
Water Source:	S. Platte River & Plum Creek		
Drainage Basin:			South Platte
Division:	1	*District:*	2

The Castle Pines North Metropolitan District provides water and wastewater services to the residents and businesses in the City of Castle Pines, Douglas County. The District is participating in the Chatfield Reallocation Project in order to increase the permanence and reliability of its water supply. Successful completion of the Project would result in the District securing renewable water rights that on average would supply 32% of its average annual water demand. Of the 20,600 acre-feet proposed to be reallocated, the District would receive 1006 AF of storage, or 4.88% of the total reallocation. The District will use Chatfield storage through exchanges as authorized in water court Case Nos. 04CW308 and 09CW279.

The US Army Corps of Engineers issued the Project's final Feasibility Report and Environmental Impact Statement (FR/EIS) and the Record of Decision on May 29, 2014. The Selected Alternative recommended in the FR/EIS will provide 20,600 acre-feet of storage in Chatfield between the elevations 5432 and 5444 msl for M&I water supply and other purposes including agriculture, environmental restoration, and recreation and fishery habitat protection and enhancement. Construction cost in October 2015 estimated the overall Reallocation Project to cost to $134 million. An October 2017 cost estimate revised this cost to be $171 million. The District is seeking an increase to its Chatfield loan to cover its share of the cost difference.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Centennial Water and Sanitation District

Chatfield Reallocation Project

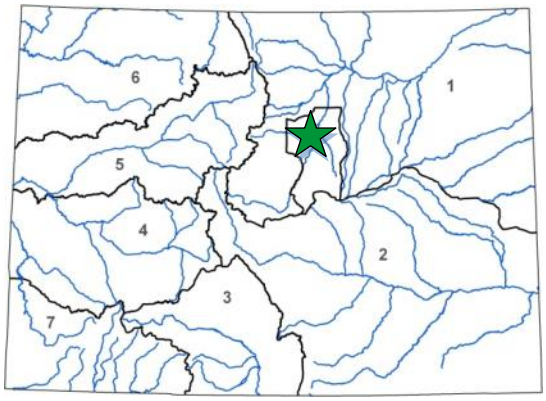
January 2018 Board Meeting

(Loan Increase)

LOAN DETAILS	
Project Cost:	$57,459,314
CWCB Loan (with Service Fee):	$53,486,267
Loan Term and Interest Rate:	30 years @ 3%
Funding Source:	Severance Tax Perpetual Base Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	0 % Low - 0% Mid -100% High	0%

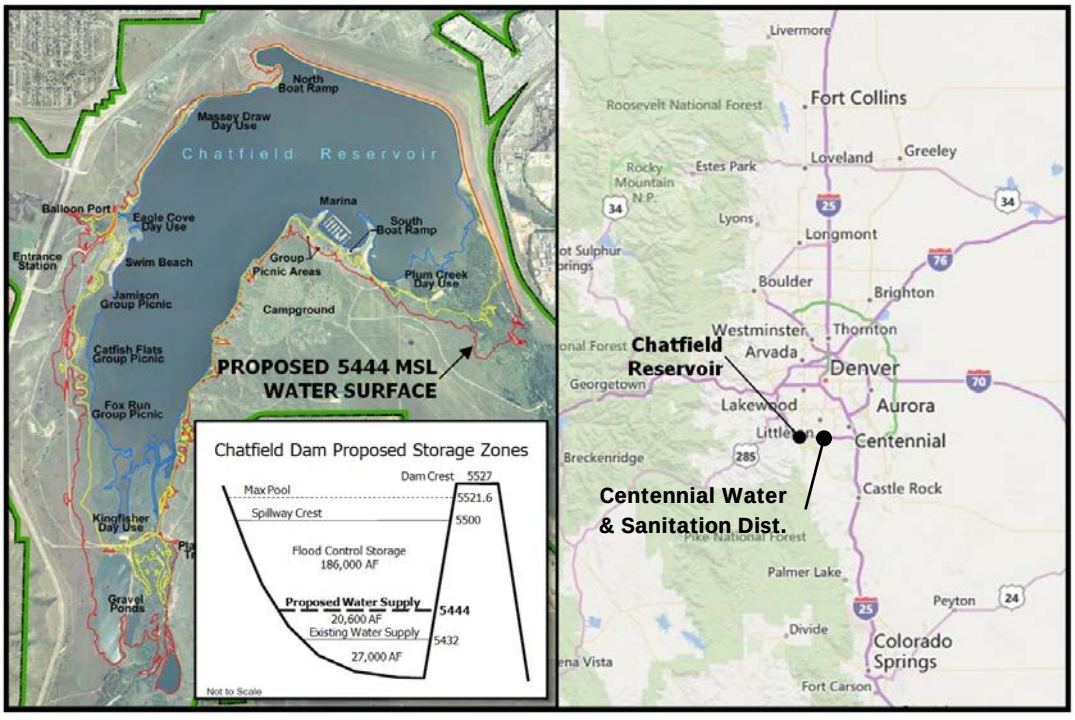
PROJECT DETAILS	
Project Type:	Reservoir Storage
New Storage:	6,922 AF



LOCATION			
County:			Douglas
Water Source:	S. Platte River & Plum Creek		
Drainage Basin:			South Platte
Division:	1	*District:*	2

The Centennial Water & Sanitation District provides water and wastewater services to the residents and businesses of Highlands Ranch in Douglas County. The District is participating in the Chatfield Reallocation Project in order to increase the permanence and reliability of its water supply. Successful completion of the Project would result in the District securing renewable water rights that on average would supply 16% of its average annual water demand. Of the 20,600 acre-feet proposed to be reallocated, the District would receive 6,922 acre-feet of storage, or 33.6% of the total reallocation. The District will store Chatfield water in accordance with water court Case Nos. 83CW184, 84CW411, and 85CW314.

The US Army Corps of Engineers issued the Project's final Feasibility Report and Environmental Impact Statement (FR/EIS) and the Record of Decision on May 29, 2014. The Selected Alternative recommended in the FR/EIS will provide 20,600 acre-feet of storage in Chatfield between the elevations 5432 and 5444 msl for M&I water supply and other purposes including agriculture, environmental restoration, and recreation and fishery habitat protection and enhancement. Construction cost in October 2015 estimated the overall Reallocation Project to cost to $134 million. An October 2017 cost estimate revised this cost to be $171 million. The District is seeking an increase to its Chatfield loan to cover its share of the cost difference.



CWCB Water Project Loan Program
Project Data Sheet

C150406

Borrower: Center of Colorado Water Conservancy District

County: Park

Project Name: Chatfield Reallocation Project

Project Type: Reservoir Storage

Drainage Basin: South Platte

Water Source: South Platte River
Plum Creek

Total Project Cost: $931,000

Funding Source: Severance Tax Perpetual Base Fund

Type of Borrower: Middle-income Municipal

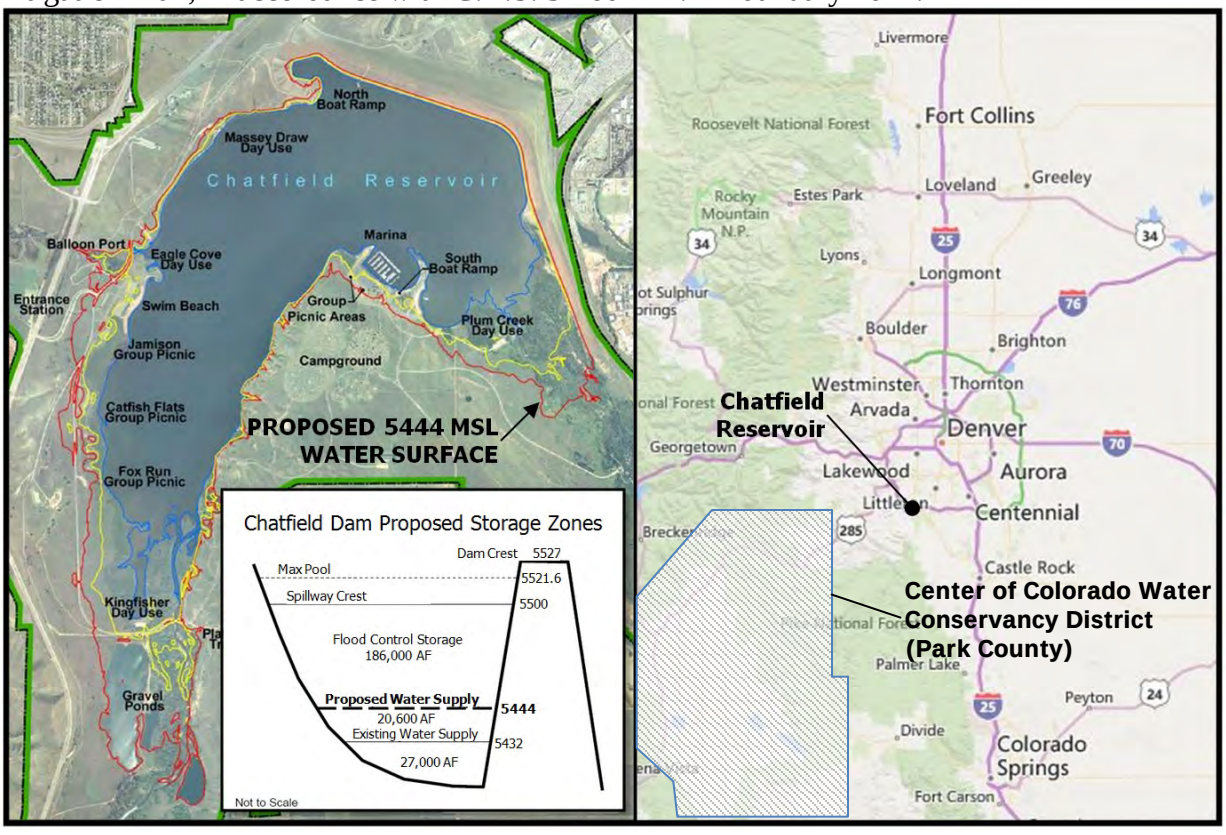
Average Annual Diversion: 700 AF

Added Water Supply Storage: 131.3 AF

CWCB Loan: $606,000 (with 1% service fee) **Interest Rate:** 2.5% **Term:** 15-years

The Center of Colorado Water Conservancy District co-owns and manages a blanket augmentation plan with the Upper South Platte Water Conservancy District through the Headwater Authority of the South Platte. The District is participating in the Chatfield Reallocation Project in order to improve its augmentation operations by needed storage space at the lower reaches of its augmentation plan. Of the 20,600 acre-feet proposed to be reallocated, the District would receive 131.3 acre-feet of storage, or 0.64% of the total reallocation. The District will use Chatfield storage to store senior and junior rights as authorized in water court Case Nos. 12CW50 and 13CW3148.

The US Army Corps of Engineers issued the Project's Feasibility Report and Environmental Impact Statement (FR/EIS) in July 2013 and a Record of Decision is expected in 2014. The Selected Alternative recommended in the Final FR/EIS will provide 20,600 acre-feet of storage in Chatfield between the elevations 5432 and 5444 msl for M&I water supply and other purposes including agriculture, environmental restoration, and recreation and fishery habitat protection and enhancement. Project participants completed the Project's Fish, Wildlife and Recreation Mitigation Plan, in accordance with C.R.S. 37-60-122.2 in January 2014.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Central Colorado Water Conservancy District

Chatfield Reallocation Project

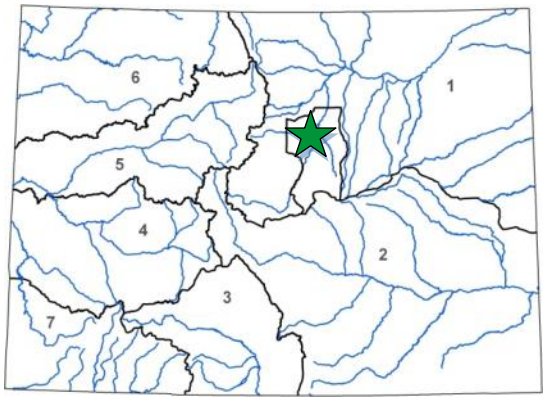
January 2018 Board Meeting

(Loan Increase)

LOAN DETAILS	
Project Cost:	$35,478,346
CWCB Loan (with Service Fee):	$29,999,929
Loan Term and Interest Rate:	30 years @ 1.75%
Funding Source:	Severance Tax Perpetual Base Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0 % Low - 0% Mid - 0% High	0%

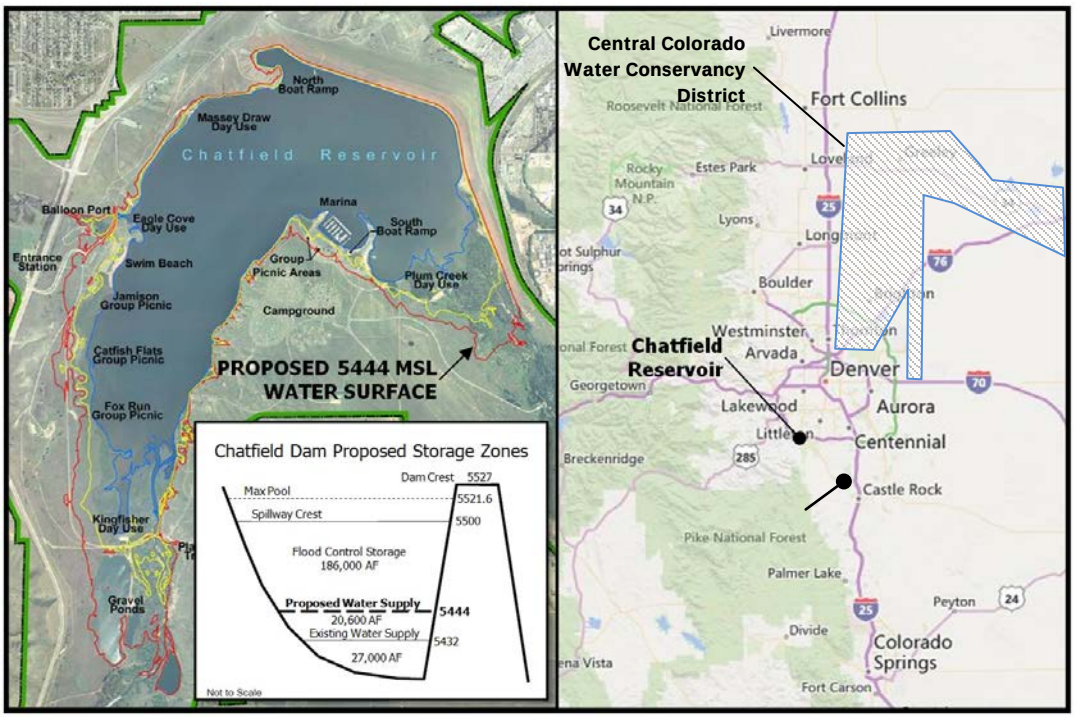
PROJECT DETAILS	
Project Type:	Reservoir Storage
New Storage:	4,274 AF



LOCATION			
County:			Douglas
Water Source:	S. Platte River & Plum Creek		
Drainage Basin:			South Platte
Division:	1	*District:*	2

The Central Colorado Water Conservancy District is located in the South Platte River basin between Denver and Fort Morgan including Beebe Draw, and the lower portions of the Box Elder Creek and Lost Creek drainages. Approximately 210,000 acres of irrigated agricultural lands are served by the District. The District is participating in the Chatfield Reallocation Project to increase the availability of augmentation water for users within its District. Of the 20,600 acre-feet proposed to be reallocated, the District would receive 4,274 acre-feet of storage, or 20.75% of the total reallocation. The location of Chatfield provides the ability to replace well depletions to all locations within the District.

The US Army Corps of Engineers issued the Project's final Feasibility Report and Environmental Impact Statement (FR/EIS) and the Record of Decision on May 29, 2014. The Selected Alternative recommended in the FR/EIS will provide 20,600 acre-feet of storage in Chatfield between the elevations 5432 and 5444 msl for M&I water supply and other purposes including agriculture, environmental restoration, and recreation and fishery habitat protection and enhancement. Construction cost in October 2015 estimated the overall Reallocation Project to cost to $134 million. An October 2017 cost estimate revised this cost to be $171 million. The District is seeking an increase to its Chatfield loan to cover its share of the cost difference.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Centenial Diversion Replacement

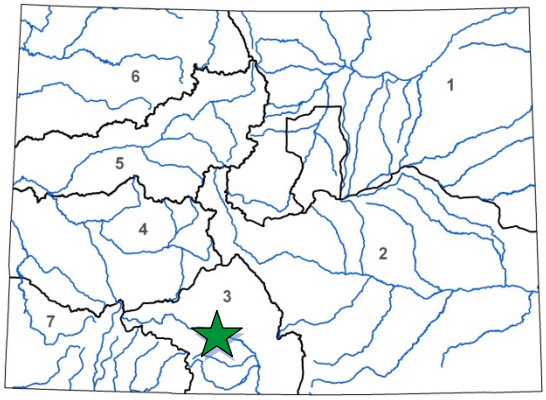
Centenial Irrigating Ditch Company

September 2017 Board Meeting

LOAN DETAILS	
Project Cost:	$512,000
CWCB Loan (with Service Fee):	$232,300
Loan Term and Interest Rate:	20 Years @ 1.50%
Funding Source:	Severance Tax PBF and WSRF Grant

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0% Low - 0% Mid - 0% High	0%

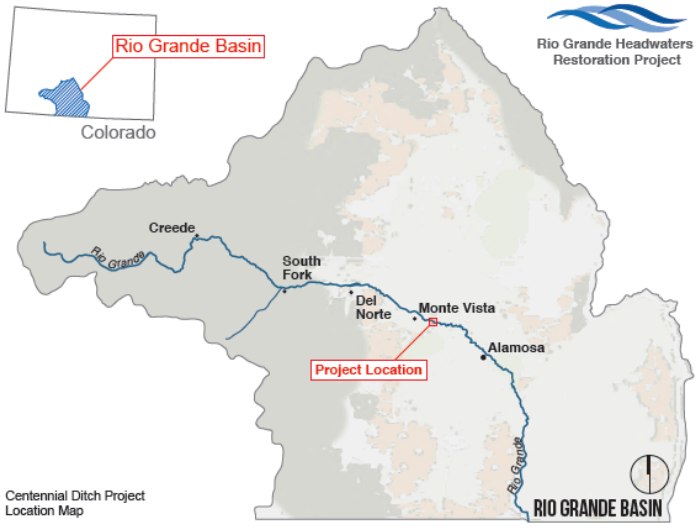
PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Delivery:	21,700 AF



LOCATION			
County:			Rio Grande
Water Source:			Rio Grande
Drainage Basin:			Rio Grande
Division:	3	*District:*	20

The Company's diversion and headgate structures are located four miles east of Monte Vista on the Rio Grande. 8,500 acres are irrigated under the system. The diversion was highlighted as a river rehabilitation priority in a 2001 study titled "Rio Grande Headwater Restoration Project." That 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, and was sponsored by the San Luis Valley Water Conservancy District and funded with a grant from the CWCB. A 2007 Rio Grande Watershed Restoration Strategic Plan highlighted the importance of continued efforts to implement the 2001 study recommendations.

The Company partnered with the Colorado Rio Grande Restoration Foundation, the fiscal agent for the Rio Grande Headwater Restoration Project, to organize and raise funds for the Project. The Foundation similarly worked with four other ditch companies and consolidated those needs into one WSRF grant request ("Five Ditches: Rio Grande Diversion and Headgate Improvement"). That grant request will also be heard at the September 2017 Board Meeting. The existing diversion dam will be replaced with a grouted rock diversion dam spanning the width of the river. The dam will include a low flow channel to allow for sediment transport. Project stakeholders worked with Colorado Parks and Wildlife, and at CPW's request, final design will incorporate a partial fish barrier to protect native fish upstream from downstream non-native predators such as the pike.



Centennial Ditch Project Location Map


Diversion Structure

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Shores Lakes Ponds C Infrastructure Improvement

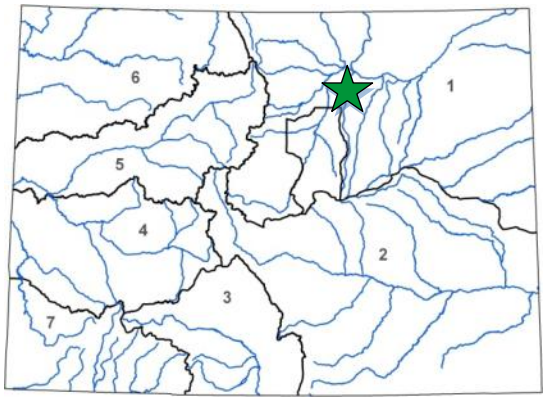
Central Colorado Water Conservancy District

January 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$3,430,000
CWCB Loan (with Service Fee):	$2,367,440
Loan Term and Interest Rate:	30 years @ 1.65%
Funding Source:	Construction Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0 % Low - 0% Mid -0% High	0%

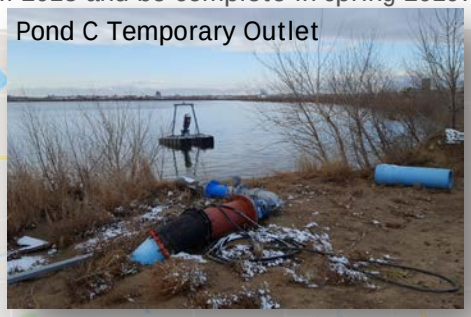
PROJECT DETAILS	
Project Type:	Reservoir Rehabilitation
Storage Maintained:	4,500 AF



LOCATION			
County:			Weld
Water Source:			South Platte River
Drainage Basin:			South Platte
Division:	1	*District:*	2

The Well Augmentation Subdistrict (WAS) was formed in 2004 to develop a permanent augmentation plan for well owners who were previously members of the Groundwater Appropriators of the South Platte (GASP), and covers land in Adams, Weld, and Morgan counties. There are currently 275 wells contracted for coverage in the WAS Augmentation Plan, covering 78 square miles, for a total of 15,250 AF. WAS issues an annual pumping quota to its member wells based on WAS overall augmentation supplies. The first seven years the quota was set to 0%, but in recent years the quota has ranged from 35%-60%.

The Shores Lakes is a gravel pit complex located near Firestone in Weld County and consists of four lined cells (Ponds A, B, C, D), which are interconnected via pipelines. Shores Lakes has all planned infrastructure installed except Pond C's inlet and outlet structures. This Project will install the inlet and outlet infrastructure for Pond C, thereby allowing WAS to efficiently store and release water under its augmentation plan. Construction is anticipated to being in fall 2018 and be complete in spring 2019.


Pond C Temporary Outlet

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Chilcott Augmentation Station

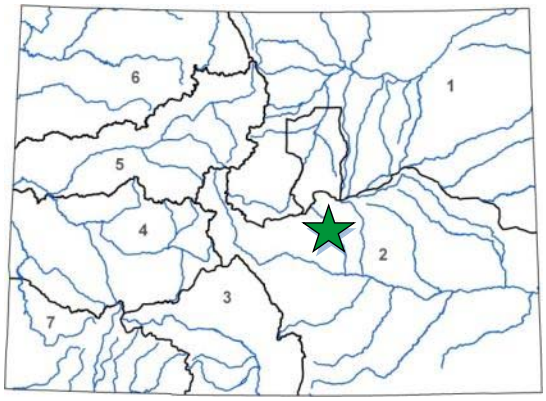
Chilcott Ditch Company

July 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$500,000
CWCB Loan (with Service Fee):	$505,000
Loan Term and Interest Rate:	20 Years @ 2.55%
Funding Source:	Construction Fund

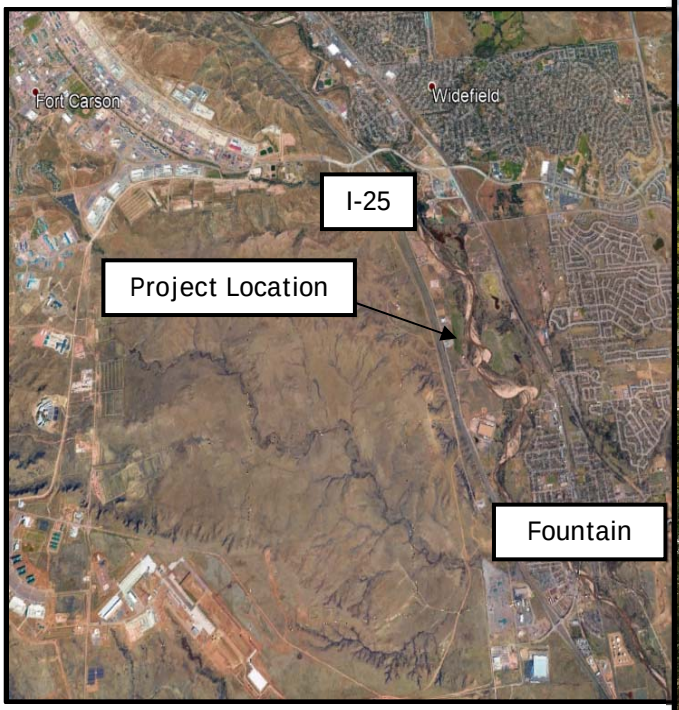
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	0% Low - 100% Mid -0% High	0%

PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Diversions:	4,961 AF



LOCATION			
County:			El Paso
Water Source:			Fountain Creek
Drainage Basin:			Arkansas
Division:	2	*District:*	10

The Chilcott Ditch Company operates the Chilcott Ditch for the benefit of its shareholders by providing direct flow irrigation water. The ditch diverts from Fountain Creek, just north of the Town of Fountain, and water travels through the Company's eight-mile-long ditch to land under the ditch as well as to an augmentation station that measures return flow to Fountain Creek on behalf of shareholders taking delivery of their pro-rata share through the augmentation station. Over time the streambank near the augmentation station has eroded and undercut the augmentation station flume. This has caused concern about the structural stability and discharge functionality and operation of the augmentation station. The Company has concluded that the protection of the augmentation station is needed. The Company desires to stabilize the embankment and reconstruct the outfall and sand discharge line considering a 100-yr flood recurrence interval and associated streamflow and water surface profile. Construction is scheduled for the fall of 2018/winter of 2019.



Current streambank and outfall conditions

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Ditch System Improvements

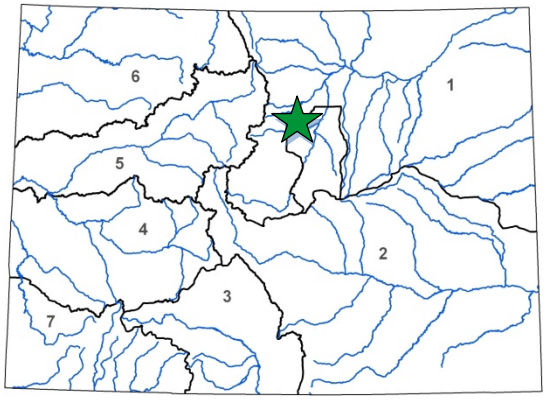
Church Ditch Water Authority

July 2017 Board Meeting

LOAN DETAILS	
Project Cost:	$3,580,000
CWCB Loan (with Service Fee):	$3,615,800
Loan Term and Interest Rate:	30 Years @ 3.0%
Funding Source:	Construction Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	0% Low - 33% Mid - 67% High	0%

PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Delivery:	10,500 AF

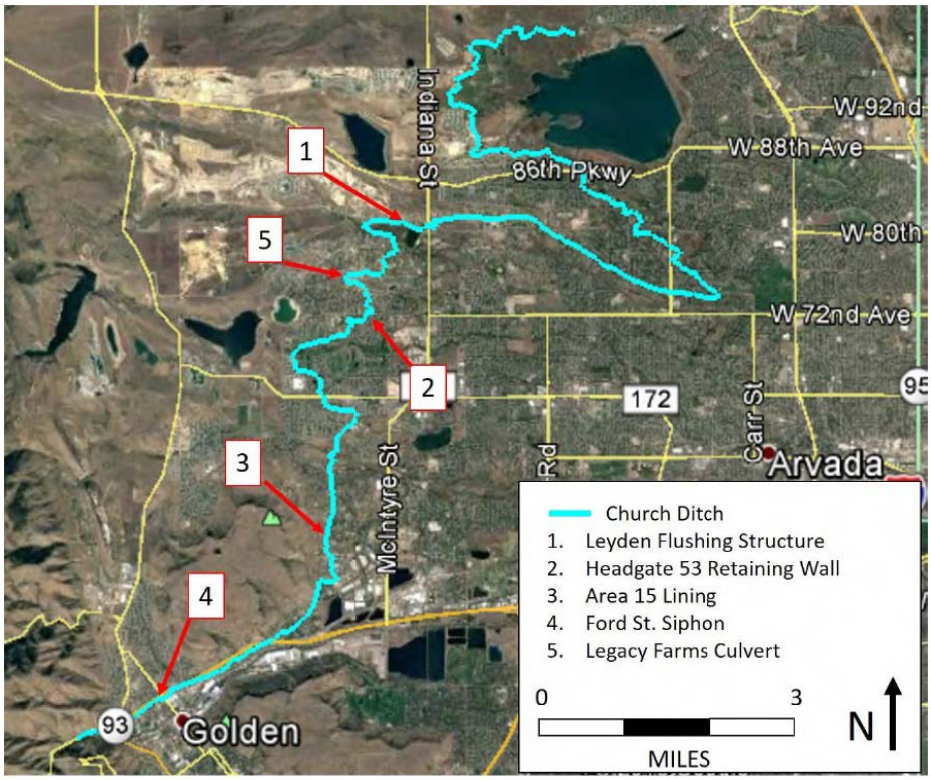


LOCATION			
County:	Jefferson		
Water Source:	Clear Creek		
Drainage Basin:	South Platte		
Division:	1	*District:*	7

The Authority was formed in 2004 by the cities of Northglenn and Westminster to operate the Church Ditch. The ditch is 26-miles long and carries water from its headgate in Clear Creek, near Golden, through Jefferson County until it ends near the intersection of 100th Ave and Simms St at the Wilson Flume. There are 97 Contractual Users who receive water from the ditch.

The Authority and Ecological Resource Consultants (ERC) created a Master Plan in 2009 to identify areas in need of maintenance, modification, or replacement. Since 2009, the Authority has been completing identified projects as time and budgets have allowed. Currently, the following five projects have been identified as the highest priority for the Authority over the next two years. (1) The Leyden Creek Flushing Structure will replace the aging structure and improve efficiency, safety, and maintenance. (2) The Headgate 53 Retaining Wall project will repair a concrete block wall which was installed as an emergency fix due to the 2013 flood. (3) The Area 15 Ditch Lining will line a section of ditch where the dewatering by new homes and businesses adjacent to the ditch are causing increased water loss in the ditch. (4) The Ford Street Siphon will address a 75 year old culvert that is at or near the end of its expected lifespan. Finally (5) the Legacy Farms Culvert will replace an undersized culvert which is currently creating a bottleneck.

All projects will be constructed during the non-irrigation season and are planned to be complete by spring of 2019.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Consolidated Diversion and Headgate Replacement

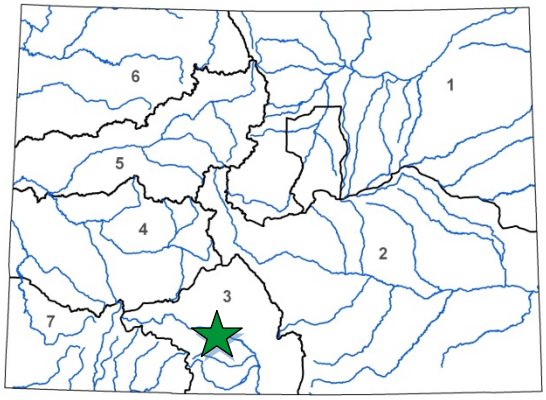
Consolidated Ditch and Headgate Company

July 2017 Board Meeting

LOAN DETAILS	
Project Cost:	$1,862,000
CWCB Loan (with Service Fee):	$1,010,000
Loan Term and Interest Rate:	30 Years @ 1.8%
Funding Source:	Severance Tax Perpetual Base Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0% Low - 0% Mid - 0% High	0%

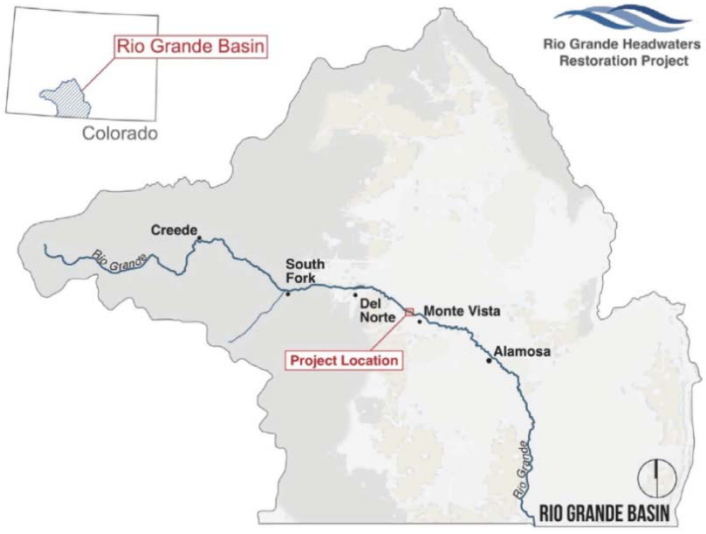
PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Delivery:	33,500 AF



LOCATION			
County:			Rio Grande
Water Source:			Rio Grande
Drainage Basin:			Rio Grande
Division:	3	*District:*	20

The Company is a Mutual Ditch Company formed in 1910. Its diversion and headgate structures are located five miles northwest of Monte Vista on the Rio Grande. The company serves 38 shareholders made up of water right owners who use the ditch as a carrier ditch. The diversion dam and headgate structures are at the end of its service life and are no longer effective at low or high river flows. These structures were highlighted as river rehabilitation priorities in 2001 study titled "Rio Grande Headwater Restoration Project." That 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.

The Company has partnered with the Colorado Rio Grande Restoration Foundation, the fiscal agent for the Rio Grande Headwater Restoration Project, to organize and raise funds for the Project. The Natural Resources Conservation Service is providing design and construction oversight for the project, as well as a $750,000 grant from its Environmental Quality Incentive Program (EQIP). The Foundation will be including this Project as part of a WSRF grant request that, if approved by the Rio Grande Roundtable, will be heard at the CWCB September 2017 Board Meeting. The EQIP grant funds are subject to forfeiture if the Project does not begin construction in Fall 2017. Therefore, to ensure construction can begin as soon as river conditions allow, the Company is seeking this CWCB loan to cover its full cost share. Any WSRF grant funds obtained for this Project will reduce the final loan amount.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Piping the Duke Ditch

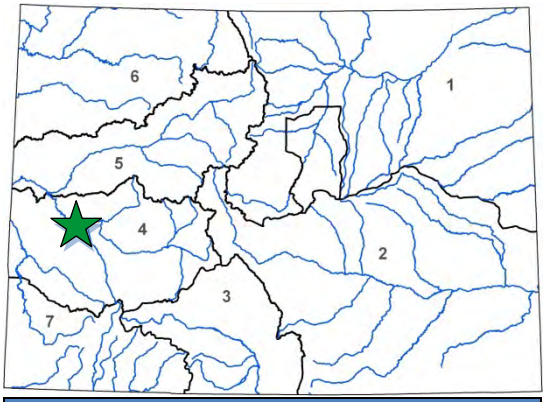
Duke Ditch Company

March 2016 Board Meeting

LOAN DETAILS	
Project Cost:	$749,374
CWCB Loan (with Service Fee):	$90,900
Loan Term and Interest Rate:	30 years @ 2.0%
Funding Source:	Construction Fund, WSRA, Salinity Control

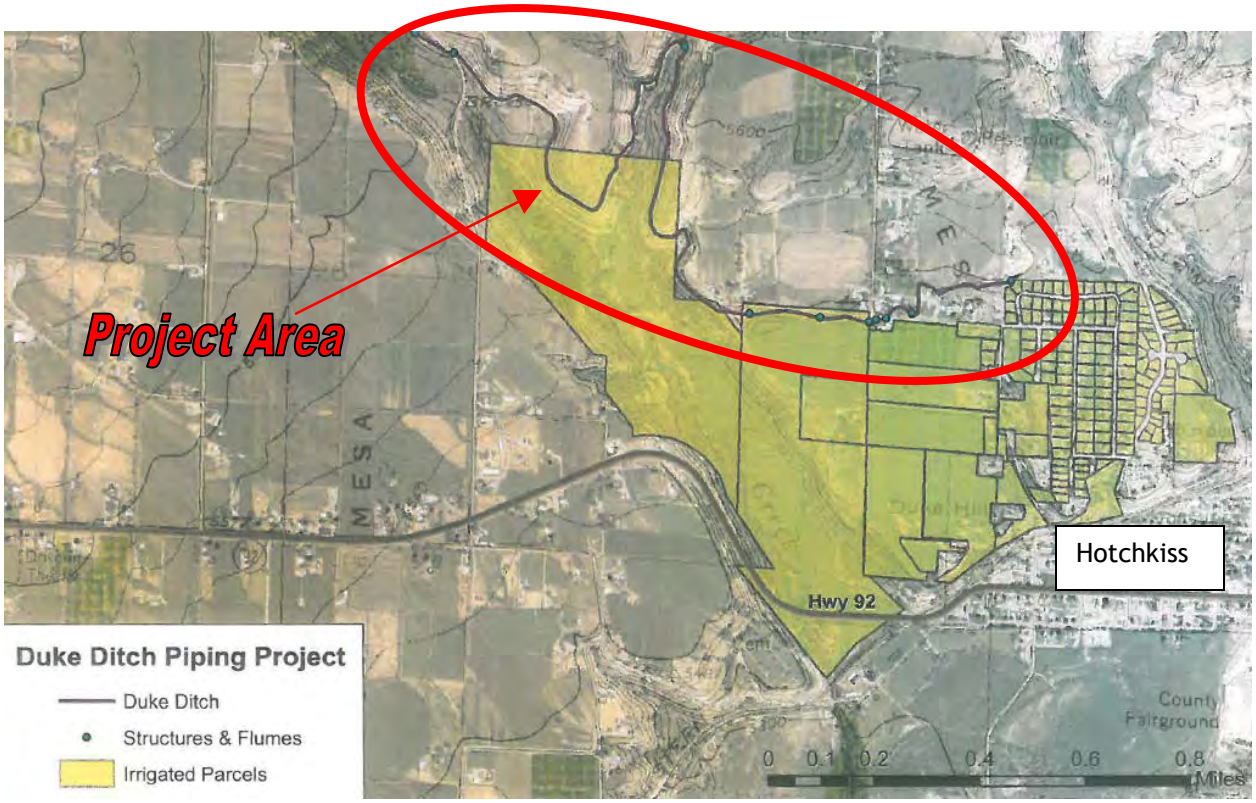
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
68%	32% Low - 0% Mid - 0% High	0%

PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Delivery:	2,424 AF



LOCATION			
County:			Delta
Water Source:			Leroux Creek
Drainage Basin:			Gunnison
Division:	4	*District:*	42

The Duke Ditch Company diverts from Leroux Creek and Barrow Gulch, west of the Town of Hotchkiss, and delivers water through the Company's ditch to a 380-acre service area. The earthen ditch traverses a steep hillside in the Leroux Creek canyon where it is prone to washout and is subject to significant seepage and evaporative losses. As a result of the location, it has significant maintenance and aquatic vegetation growth issues. The deep percolation of irrigation water in this area contributes salinity and selenium to the Colorado River system; therefore, the Company obtained a $464,000 Salinity Control Program grant (61% of project costs) and a $100,900 NRCS grant (13% of project costs), as the project is expected to reduce salt loading to the Colorado River system by 395 tons/year. In addition, the Company is applying for a $47,237 basin grant and a $47,237 statewide grant from the Water Supply Reserve Account Grant Program to pipe the entire 2.7 miles of ditch. Construction is scheduled for the fall/winter of 2016/2017.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Adobe Creek Dam Rehabilitation

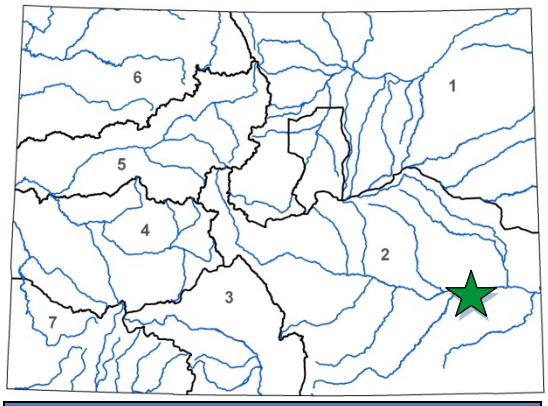
Fort Lyon Canal Company

September 2017 Board Meeting

LOAN DETAILS	
Project Cost:	$9,200,000
CWCB Loan (with Service Fee):	$8,181,000
Loan Term and Interest Rate:	40 years @ 1.50%
Funding Source:	WSRF & Severance Tax Perpetual Base Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
99.1%	<1% Low - TBD% Mid -0% High	<1%

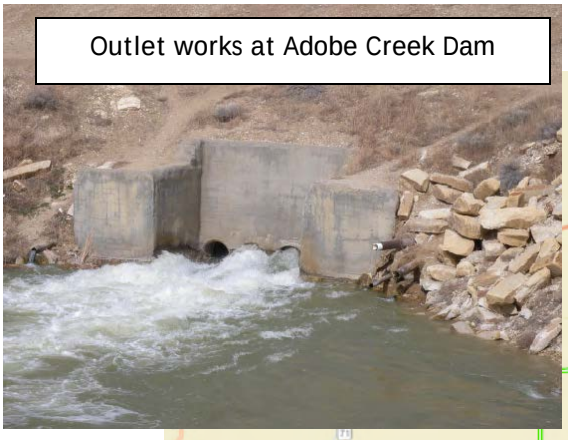
PROJECT DETAILS	
Project Type:	Dam Rehabilitation
Average Annual Diversions:	221,000 AF
Recovered Storage:	32,560 AF
Preserved Storage:	81,692 AF



LOCATION			
County:			Bent
Water Source:			Arkansas River
Drainage Basin:			Arkansas
Division:	2	*District:*	17

Adobe Creek Reservoir (also known as Blue Lake) is owned by the Fort Lyon Canal Company. The dam is a 32-foot-high, high hazard dam that impounds approximately 77,400 acre-feet of active storage and 4,292 acre feet of dead storage. The water is used to irrigate approximately 93,000 acres of land in Bent, Otero, and Prowers County.

A storage restriction was issued by the Dam Safety Branch of the Office of the State Engineer on May 5, 2017 due to adverse seepage conditions in the dam's foundation and deteriorated conditions in the 112-year-old, vitrified clay outlet works. Through this loan, the Company intends to design and construct new outlet works and seepage control systems in Adobe Creek Dam to regain the approximately 32,560 acre-feet of storage that was lost due to the storage restriction. The project will also be funded by a $100,000 Water Supply Reserve Fund (WSRF) Arkansas Basin grant and a $1,000,000 Statewide WSRF grant. Construction is expected to being in late 2018.



Outlet works at Adobe Creek Dam

CWCB Water Project Loan Program
Project Data Sheet

C150359

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
(with 1% Service Fee)

Interest Rate: 2.25% **Term:** 30 years

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.

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Tunnel and Canal Renovation

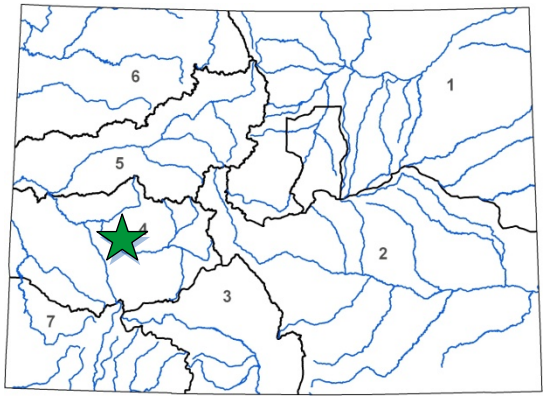
Fruitland Irrigation Company

September 2017 Board Meeting

LOAN DETAILS	
Project Cost:	$10,509,000
CWCB Loan (with Service Fee):	$1,746,290
Loan Term and Interest Rate:	40 Years @ 2.0%
Funding Source:	Severance Tax PBF and WSRF Grant

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0% Low - 0% Mid -0% High	0%

PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Diversions:	10,103 AF



LOCATION			
County:			Delta & Montrose
Water Source:			Crystal Creek
Drainage Basin:			Gunnison
Division:	4	*District:*	40

The Company owns and operates the 17.7 mile-long earthen Fruitland Highline Canal, the 22 mile-long earthen Gould Canal including 0.8 miles through two rock tunnels, and the 10,168 AF Gould Reservoir. The Fruitland Highline Canal diverts from Crystal Creek, 13 miles south of the Town of Crawford and provides irrigation water to approximately 5,900 acres in Delta and Montrose Counties.

The Company is seeking a CWCB Loan and a WSRF Grant as part of an overall funding package for the Tunnel and Canal Renovation Project. The two tunnels in the Gould Canal are over 100 years old and have eroded to the point that its structural integrity is threatened. A collapse would eliminate the ability to deliver irrigation water after the junior direct flow rights are out of priority, typically in mid-June. Additionally, the Fruitland Highline and Gould Canals are located within the Colorado River salinity control area. The seepage losses are estimated to be 12.5 cfs, or 1856 AF annually which equates to approximately 6,053 tons of salt to the Colorado River system.

CWCB funding will be used to pipe the Gould Canal from Gould Reservoir through the two tunnels, a distance of approximately 2.1 miles and line the earthen canal for approximately 10.3 miles.


Canal to be piped


Canal to be lined

CWCB Water Project Loan Program
Project Data Sheet

Borrower: Grand Mesa Water Conservancy District

County: Delta

Project Name: Peak Reservoir and Blanche Park Reservoir Rehabilitation

Project Type: Reservoir Rehabilitation

Drainage Basin/ District: Gunnison / 40

Water Source: Surface Creek

Total Project Cost: $640,000

Funding Source: Construction Fund/ WSRA Gunnison Basin Funds

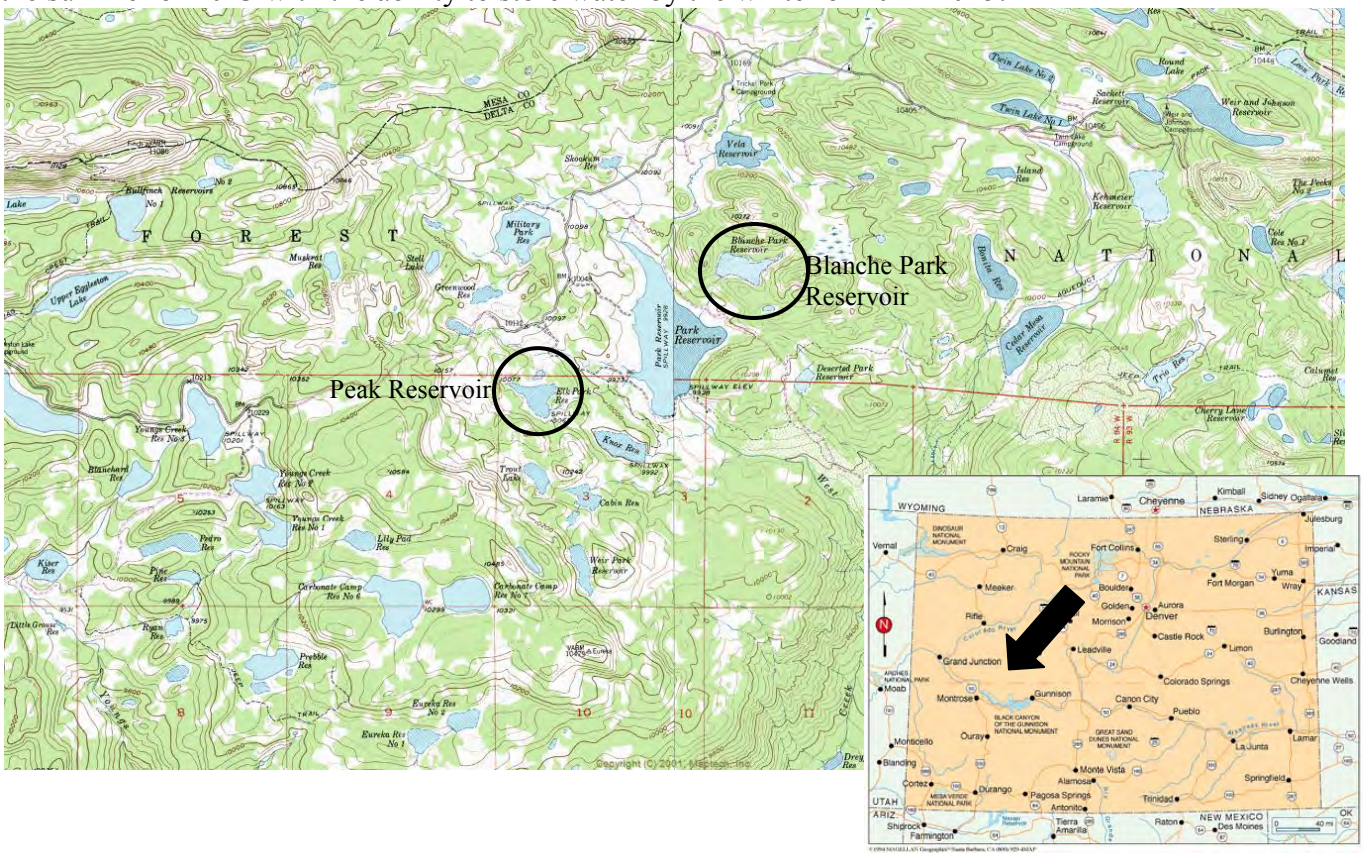
Type of Borrower: Municipal/Agricultural

Average Annual Diversion: 400 AF
Storage Added: 155 AF

CWCB Loan: $227,250
(with 1% Service Fee)

Interest Rate: 1.55%* **Term:** 20 years
(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.



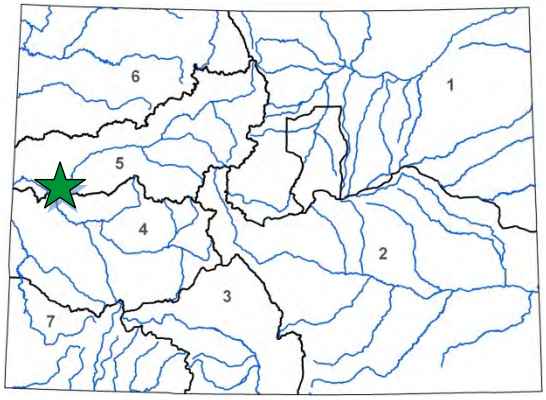
COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Grand Valley Power Plant Rehabilitation

Grand Valley Water Users Association

November 2016 Board Meeting

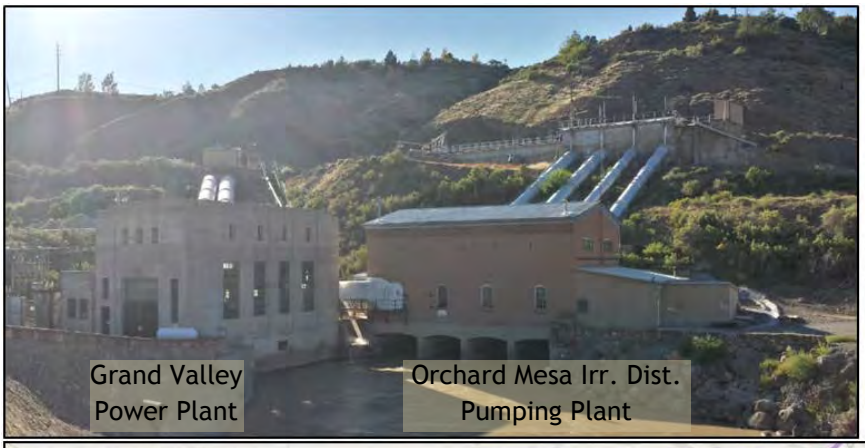
LOAN DETAILS	
Project Cost:	$5,200,000
CWCB Loan (with Service Fee):	$1,717,000
Loan Term and Interest Rate:	30 Years @ 2.0%
Funding Source:	Construction Fund
BORROWER TYPE	
Hydropower	
PROJECT DETAILS	
Project Type:	Hydroelectric
Average Annual Power Production:	17M kWh



LOCATION			
County:			Mesa
Water Source:			Colorado River
Drainage Basin:			Colorado
Division:	5	*District:*	72

The Grand Valley Water Users Association (Association) and Orchard Mesa Irrigation District (District) are each seeking a loan to cover its cost share for the Grand Valley Power Plant (GVPP) Rehabilitation Project. The GVPP is owned by the Bureau of Reclamation and originally operated by Public Service Company of Colorado (Xcel Engergy) in conjunction with the Cameo coal fired power plant. The Association and District took operational control of the plant when Xcel decided to cease its operations. The Association and District equally split costs and revenues from the GVPP under a Lease of Power Privilage with Reclamation and a Power Purchase Agreement with Xcel. In addition to being a revenue source, the GVPP serves an importnant role in providing water to the "15-Mile Reach" which has been designated by the Upper Colorado River Endangered Fish Recovery Program as critical habitat. The non-consumptive hydropower water right ensures continued flows for this important stretch of river.

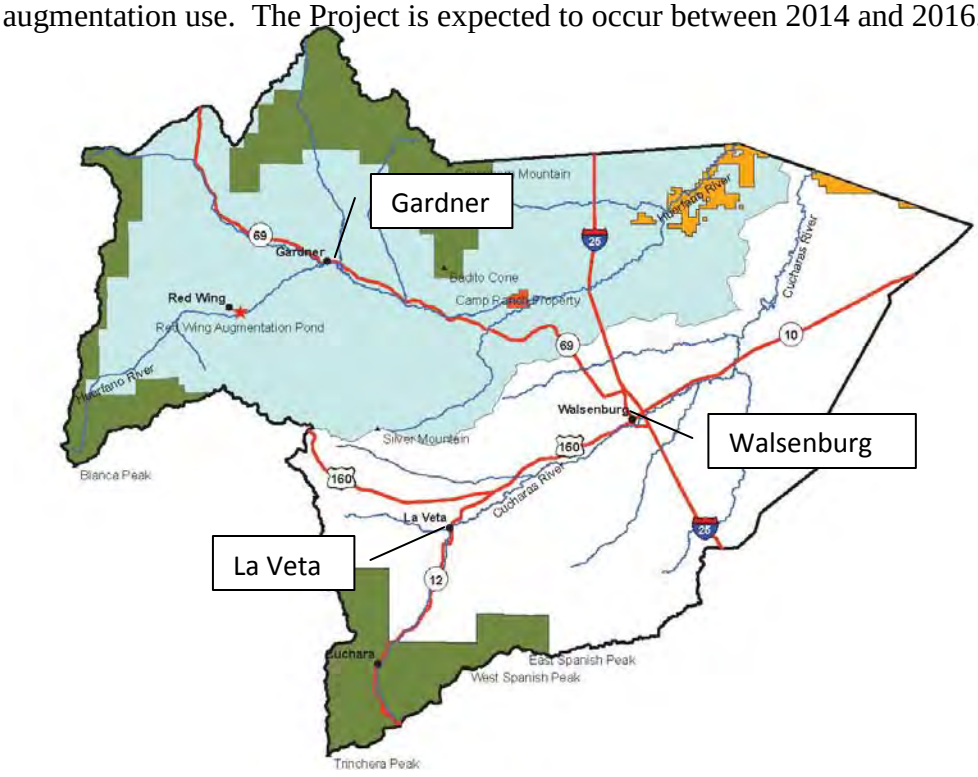
The goal of the Project is to bring the GVPP up to a sustainable operating condition and meet current electric and safety standards. The GVPP was built in the early 1930s and has seen no major upgrades or modernization to date. Under current operations, the "water-to-wire" efficiency is approximately 54% with a maximum generation output of 2.5 MW. Calculations show as much as 4.1MW production should be feasible based on flow rate and available head.



Water Project Loan Program
Project Data Sheet

Borrower:	Huerfano County Water Conservancy District	**County:**	Huerfano
Project Name:	Regional Augmentation Project	**Project Type:**	Water Rights Acquisition and Augmentation
Drainage Basin:	Arkansas / District 67	**Water Source:**	Huerfano River
Total Project Cost:	$3,050,000	**Funding Source:**	Construction Fund
Type of Borrower:	Low-Income Municipal	**Avg. Annual Diversions:**	19.5 AF
CWCB Loan:	$2,222,000 (w/ 1% service fee)	**Interest Rate:**	2.25% **Term:** 30 years

The Huerfano County Water Conservancy District is applying for a CWCB loan to develop a regional augmentation program to replace depletions of wells in unincorporated communities in Huerfano County through a regional augmentation program. Within Huerfano County there are many water users that are at risk of being curtailed due either to being out of priority or due to failing (or failed) augmentation plans. The users include schools and domestic, commercial, and agricultural users. The District has utilized a Substitute Water Supply Plan and Regional Rule 14 Replacement Plan from 2009 to 2013 to provide augmentation water to five entities that were in danger of having water use curtailed due to out of priority usage. The District believes that other water users will find it necessary to join the regional augmentation plan and the Division Engineer has indicated an urgent need for such a plan. Project components include: the purchase of land and water rights, the construction of a recharge reservoir, and the construction of a reservoir for augmentation use. The Project is expected to occur between 2014 and 2016.



CWCB Water Project Loan Program
Project Data Sheet

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 Statewide Grant: ~~$500,000~~ **$450,000**

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).

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Repurposing of Wells 12 and 13

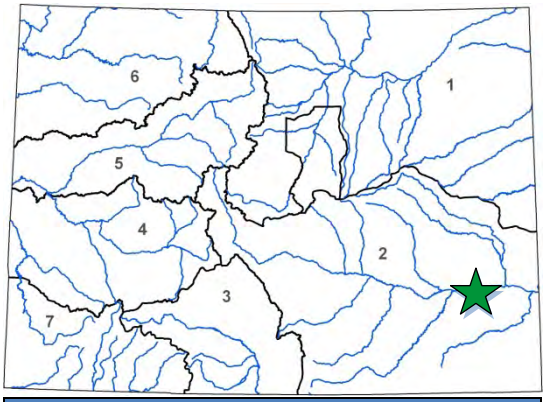
City of Lamar

September 2015 Board Meeting

LOAN DETAILS	
Project Cost:	$400,000
CWCB Loan (with Service Fee):	$101,000
Loan Term and Interest Rate:	10 Years @ 1.95%
Funding Source:	WSRA & Sev. Tax Perpetual Base Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	100% Low - 0% Mid - 0% High	0%

PROJECT DETAILS	
Project Type:	Municipal & Industrial
Average Annual Delivery:	2,005 AF



LOCATION			
County:			Prowers
Water Source:			Arkansas River
Drainage Basin:			Arkansas River
Division:	2	*District:*	67

The City of Lamar, through its Water and Wastewater Department, has been providing the city with water and sewer services for over 135 years. Although the City has undertaken numerous upgrades, rehabilitation, and expansion projects over the years, most of the existing infrastructure was funded and built during New Deal-era programs. The City's Wells 12 and 13 were developed in the 1950s and used for municipal potable water supply until 2012, when Microscopic Particulate Analysis water quality testing was conducted, resulting in a reclassification of both wells as Ground Water Under Direct Influence of Surface Water (GWUDI) by the Colorado Department of Public Health and Environment (CDPHE). The wells were taken out of service at that time. A Feasibility Study conducted in 2014 concluded that it is feasible to redevelop both wells for non-potable irrigation use. Once this project is completed, water can be used for any non-potable municipal application, including irrigation of a city-owned cemetery and a golf course, both of which are currently watered with potable water.

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Headgate Structure Replacement

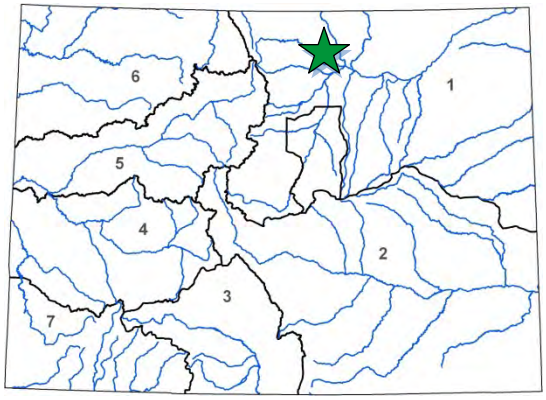
Larimer and Weld Irrigation Company

September 2016 Board Meeting

LOAN DETAILS	
Project Cost:	$750,000
CWCB Loan (with Service Fee):	$681,750
Loan Term and Interest Rate:	30 Years @ 1.5%
Funding Source:	Construction Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
96%	0% Low - 4% Mid - <1% High	0%

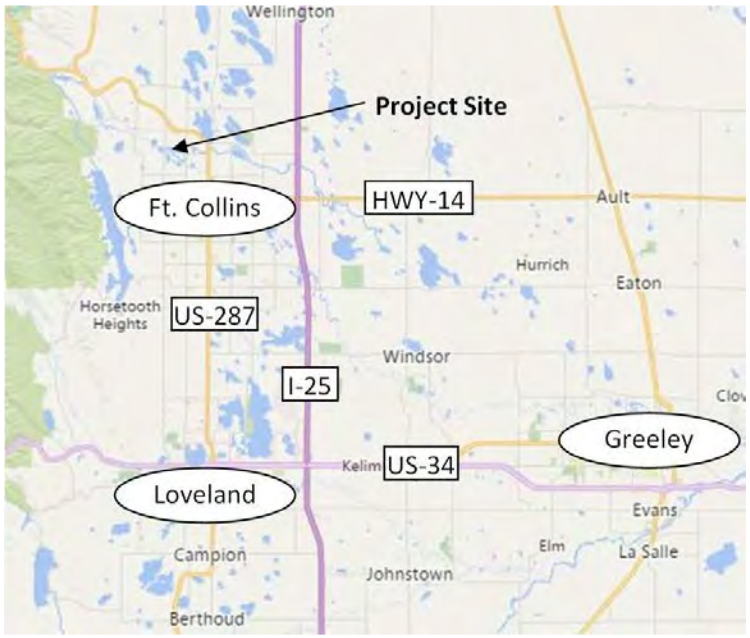
PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Delivery:	85,000 AF

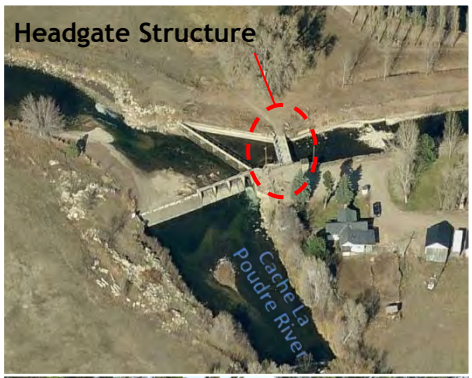


LOCATION			
County:			Larimer & Weld
Water Source:			Cache la Poudre River
Drainage Basin:			South Platte
Division:	1	*District:*	3

The Larimer and Weld Irrigation Company is a Colorado Mutual Ditch Company and a nonprofit corporation. The Company's service area extends from the Cache la Poudre River diversion north of Fort Collins, east to near the town of Galeton, encompassing approximately 61,000 acres of irrigated land in Larimer and Weld Counties. The Company's diversion off the Cache la Poudre River is aging and in need of repair. This Project will focus on replacing the headgate structure, including the concrete structure, gates, and gate operators. The replacement of the trash rack and forebay structure, and repairs to the diversion structure, are planned to take place within the next few years and are not a part of this Project.

The City of Fort Collins has developed a flood control plan for the Dry Creek Basin, which in part uses the Larimer & Weld Ditch as a conveyance for flood flows in Dry Creek. Therefore, should a flood occur in the Dry Creek Basin, it is of great importance for life, safety, and prevention of property damage, that the ditch's upstream headgate off the Poudre River be able to close so there is capacity available in the ditch to handle flood flows. Construction activities will include the replacement of the concrete structure, new gates and operators, and a new control building. Construction is expected to occur between the 2016 and 2017 irrigation seasons.





COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Participation in Southern Water Supply Project II

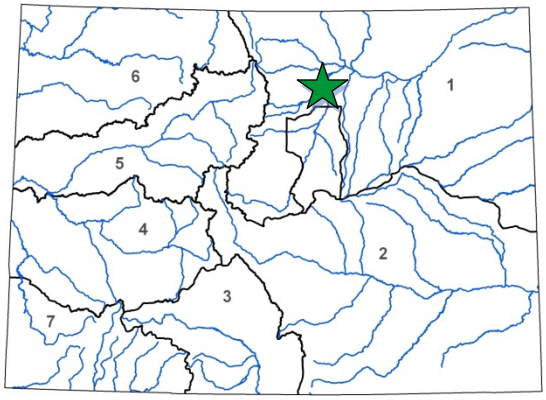
Left Hand Water District

September 2017 Board Meeting

LOAN DETAILS	
Project Cost:	$10,735,300
CWCB Loan (with Service Fee):	$10,000,000
Loan Term and Interest Rate:	20 Years @ 2.75%
Funding Source:	Construction Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	0% Low - 30% Mid -70% High	0%

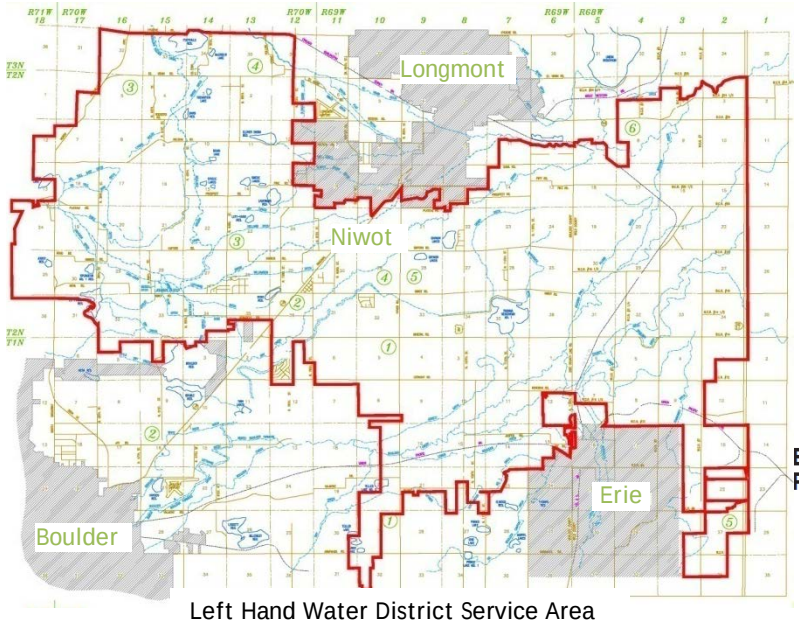
PROJECT DETAILS	
Project Type:	Municipal Water Supply System New
Average Annual Delivery:	4,400 AF



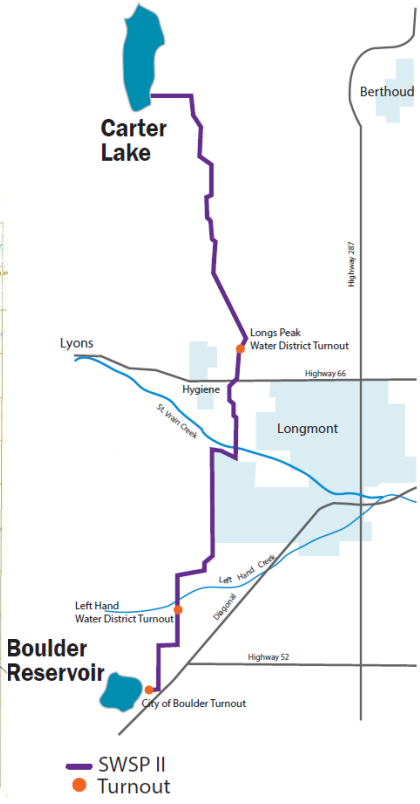
LOCATION			
County:			Broomfield, Weld
Water Source:			
Drainage Basin:			South Platte
Division:	1	*District:*	5

The District provides potable water service within a 108 square mile service area within unincorporated areas of Boulder and Larimer Counties; serving approximately 20,000 people through 7,154 individually metered taps. Water is treated at the Spurgeon Water Treatment Plant (WTP) and Dodd WTP. Spurgeon WTP is operated year-round while Dodd WTP is operated only during the irrigation season. By participating in the Southern Water Supply Project (SWSP) II, the District will be able to supply Dodd WTP with a year-round water supply, significantly reducing the risk associated with having only one water supply during the non-irrigation season, as well as reducing the maintenance associated with an open canal supplying water for treatment.

The SWSP II, proposed by Northern Colorado Water Conservancy District, is a 20-mile pipeline from Carter Lake to the Boulder Reservoir. The pipeline will deliver raw water for municipal use to Left Hand Water District (Borrower), Longs Peak Water District, and the City of Boulder. The full cost of the project is estimated to be $43,890,000. The Districts participation cost is estimated to be $10,735,000.The $10,000,000 CWCB loan will cover a majority of the District's participation cost. The District will use its cash reserves for any cost exceeding that exceeds the CWCB loan.



Left Hand Water District Service Area



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Ditch Piping Phase B

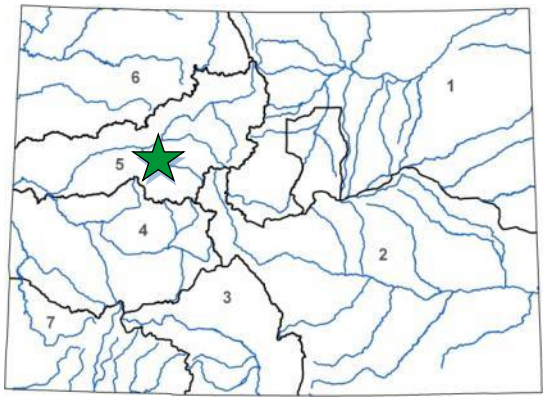
Missouri Heights Mountain Meadow Irrigation Company

July 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$400,000
CWCB Loan (with Service Fee):	$404,000
Loan Term and Interest Rate:	30 Years @ 2.05%
Funding Source:	Construction Fund

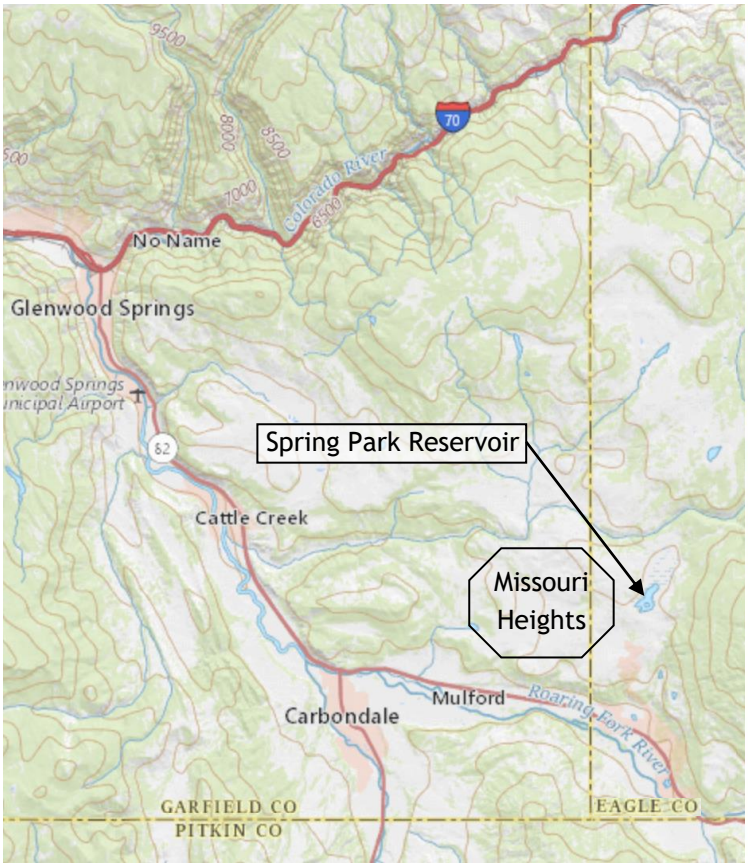
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
78%	0% Low - 0% Mid -22% High	0%

PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Diversions:	5,500 AF



LOCATION			
County:			Garfield
Water Source:			Cattle Creek
Drainage Basin:			Colorado
Division:	5	*District:*	38

The Company operates the Missouri Heights Mountain Meadow Irrigation Ditch to provide irrigation water from the Spring Park Reservoir to approximately 2,000 acres of ranch land located 12 miles northeast of Carbondale. The Company worked with the Natural Resources Conservatio service (NRCS) to evaluate water losses within its ditch. Previous construction activity lined 3,500 LF of ditch and piped 5,750 LF of ditch. This Project will pipe 9,120 LF of ditch, a section where water losses are estimated to be as high as 20%. Construction for Phase B-1 is scheduled for fall of 2018. Construction for Phase B-2 is planned to occur in fall 2019.




Existing Lined Ditch Section


Existing Piped Ditch Section


Ditch Section To Be Piped

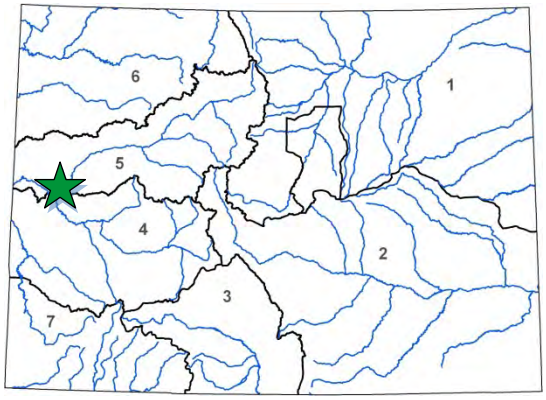
COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Grand Valley Power Plant Rehabilitation

Orchard Mesa Irrigation District

November 2016 Board Meeting

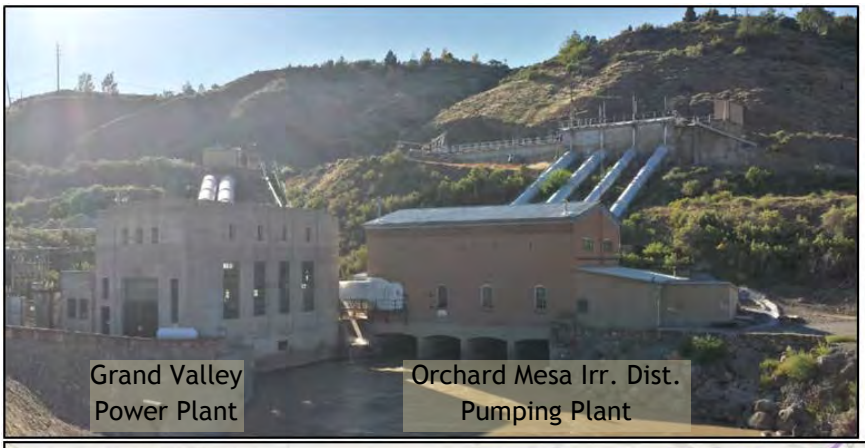
LOAN DETAILS	
Project Cost:	$5,200,000
CWCB Loan (with Service Fee):	$1,717,000
Loan Term and Interest Rate:	30 Years @ 2.0%
Funding Source:	Construction Fund
BORROWER TYPE	
Hydropower	
PROJECT DETAILS	
Project Type:	Hydroelectric
Average Annual Power Production:	17M kWh



LOCATION			
County:			Mesa
Water Source:			Colorado River
Drainage Basin:			Colorado
Division:	5	*District:*	72

The Orchard Mesa Irrigation District (District) and Grand Valley Water Users Association (Association) are each seeking a loan to cover its cost share for the Grand Valley Power Plant (GVPP) Rehabilitation Project. The GVPP is owned by the Bureau of Reclamation and originally operated by Public Service Company of Colorado (Xcel Engergy) in conjunction with the Cameo coal fired power plant. The District and Association took operational control of the plant when Xcel decided to cease its operations. The District and Association equally split costs and revenues from the GVPP under a Lease of Power Privilage with Reclamation and a Power Purchase Agreement with Xcel. In addition to being a revenue source, the GVPP serves an importnant role in providing water to the "15-Mile Reach" which has been designated by the Upper Colorado River Endangered Fish Recovery Program as critical habitat. The non-consumptive hydropower water right ensures continued flows for this important stretch of river.

The goal of the Project is to bring the GVPP up to a sustainable operating condition and meet current electric and safety standards. The GVPP was built in the early 1930s and has seen no major upgrades or modernization to date. Under current operations, the "water-to-wire" efficiency is approximately 54% with a maximum generation output of 2.5 MW. Calculations show as much as 4.1MW production should be feasible based on flow rate and available head.


Grand Valley Power Plant


Orchard Mesa Irr. Dist. Pumping Plant

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Orchard Ranch Ditch Pipe Project

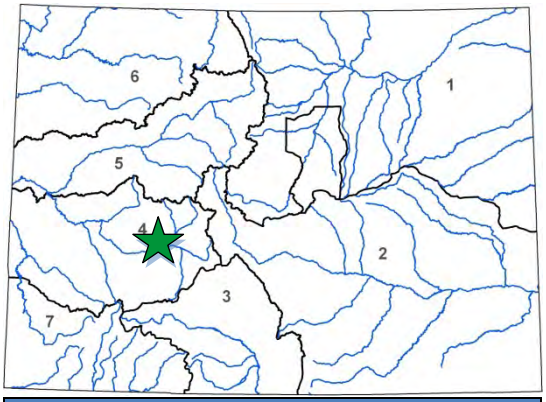
Orchard Ranch Ditch Company

January 2016 Board Meeting

LOAN DETAILS	
Project Cost:	$1,430,720
CWCB Loan (with Service Fee):	$151,500
Loan Term and Interest Rate:	30-Years @ 1.95%
Funding Source:	Severance Tax Perpetual Base Fund

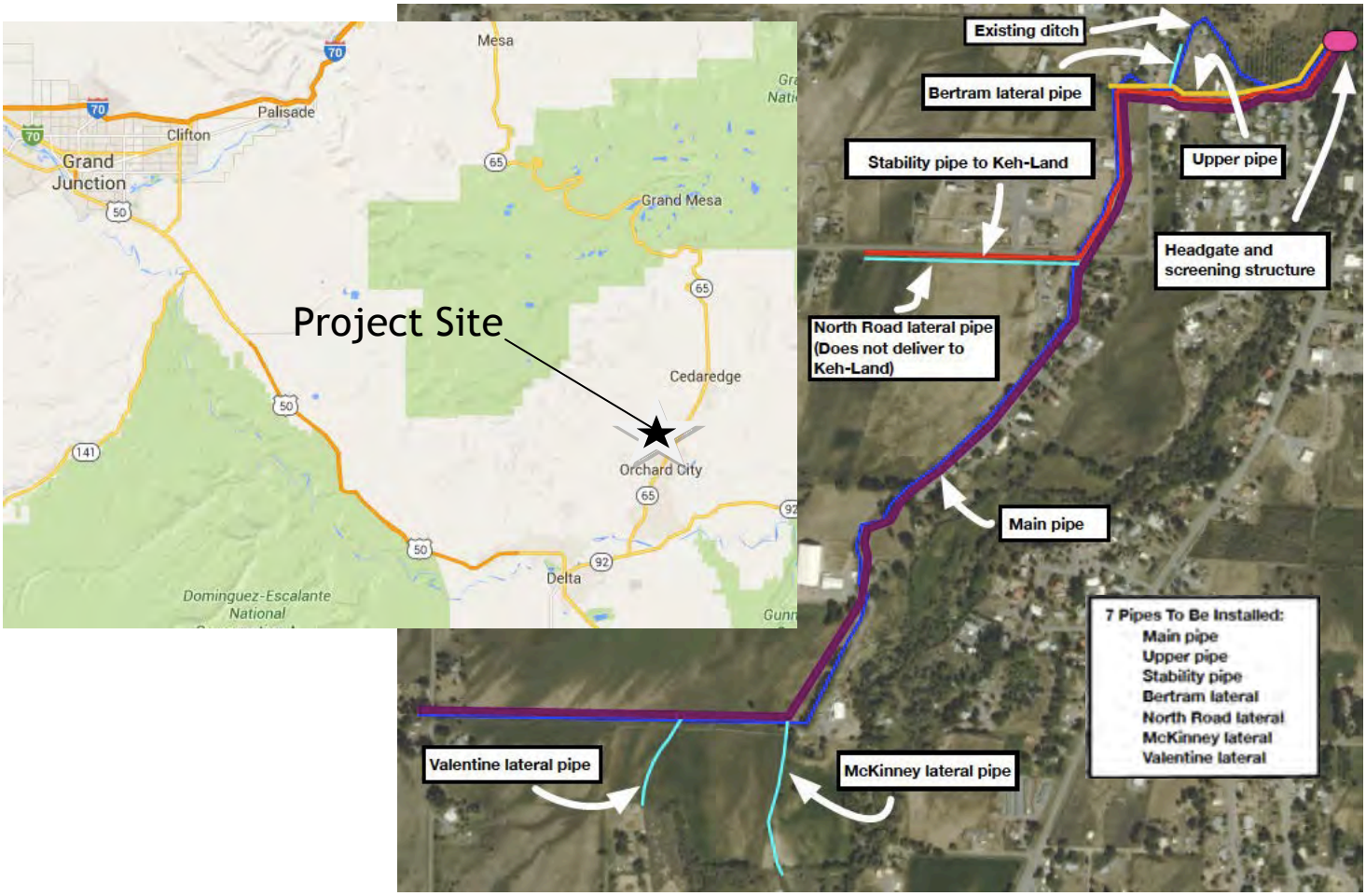
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
86%	14% Low - 0% Mid - 0% High	0%

PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Delivery:	2,750 AF



LOCATION			
County:			Delta
Water Source:			Surface Creek
Drainage Basin:			Gunnison River
Division:	4	*District:*	40

The Company serves approximately 350 irrigated acres in Delta County, approximately 10 miles north of the town of Delta, diverting all its supplies via a concrete diversion structure on Surface Creek. The Company's ditch was constructed in the late 1800s by a group of early settlers cooperating to get water to their new farms, and has been in continuous operation since that time. The proposed project will pipe the 1.6 mile long main earthen canal and portions of 4 laterals. The project will be done in conjunction with the U.S. Bureau of Reclamation's Colorado River Basin Salinity Control Program. Approximately 90% of project costs will be provided by a grant from the the U.S. Bureau of Reclamation. Construction is expected to begin in mid-2016 with completion by mid-2017.



CWCB Construction Loan Program
Project Data Sheet

Borrower: Overland Ditch and Reservoir Co. **County**: Delta

Project Name: Overland Reservoir Enlargement **Project Type:** Reservoir Enlargement

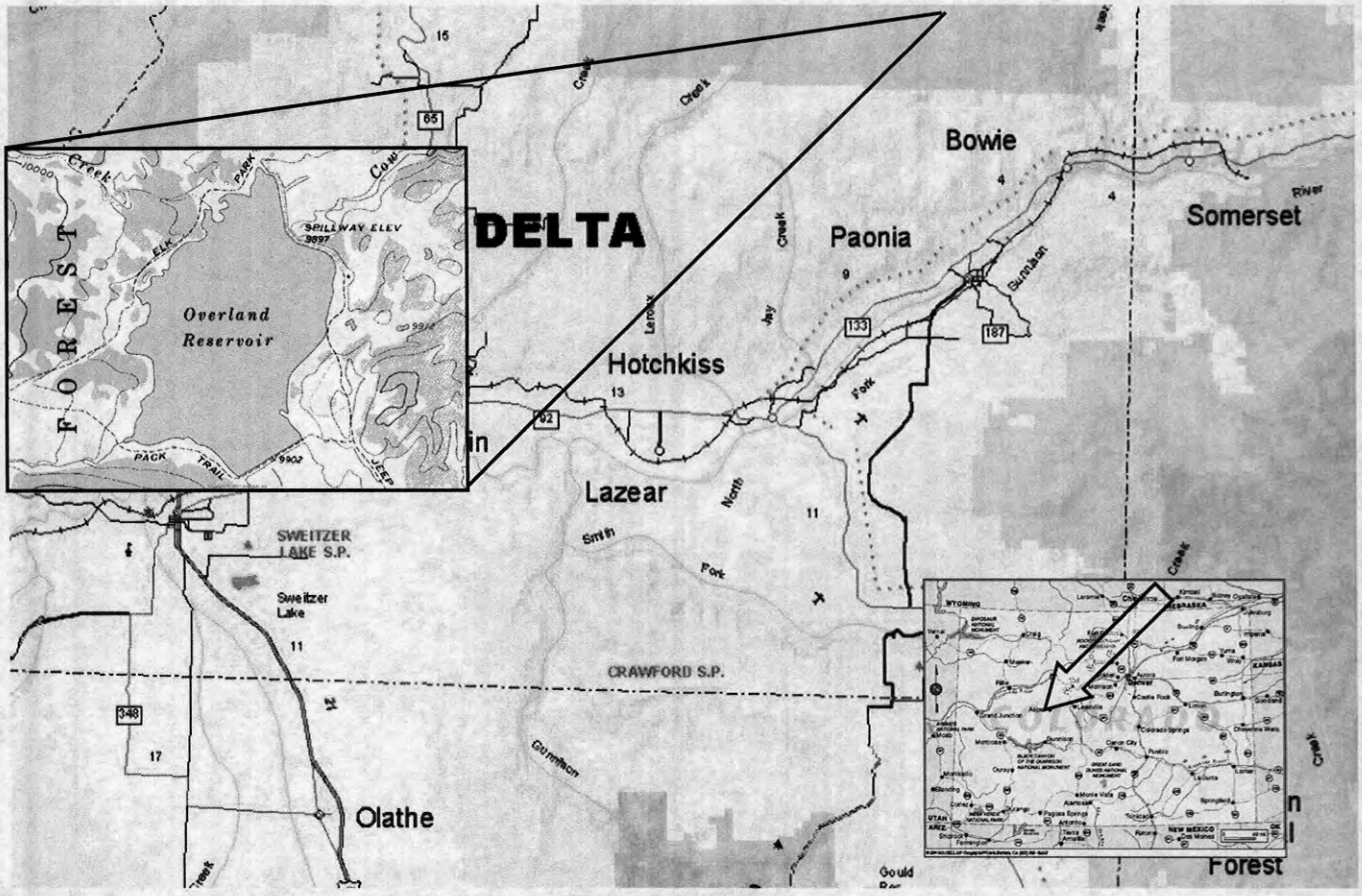
Drainage Basin: Gunnison River Basin **Water Source**: Cow Creek

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.



LOCATION MAP

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Arkansas River and Wildhorse Creek Levee Rehabilitation

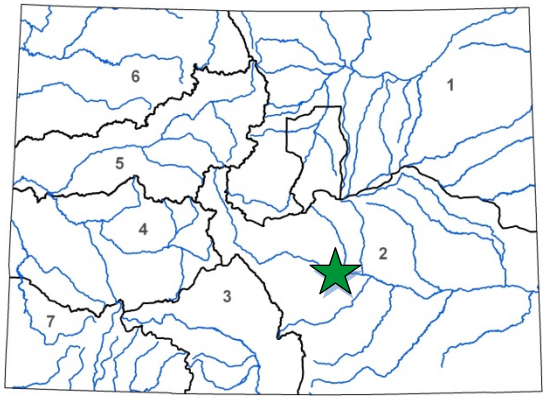
Pueblo Conservancy District

September 2017 Board Meeting

LOAN DETAILS	
Project Cost:	$23,000,000
CWCB Loan (with Service Fee):	$17,170,000
Loan Term and Interest Rate:	30 years at 2.45%
Funding Source:	Severance Tax Perpetual Base Fund

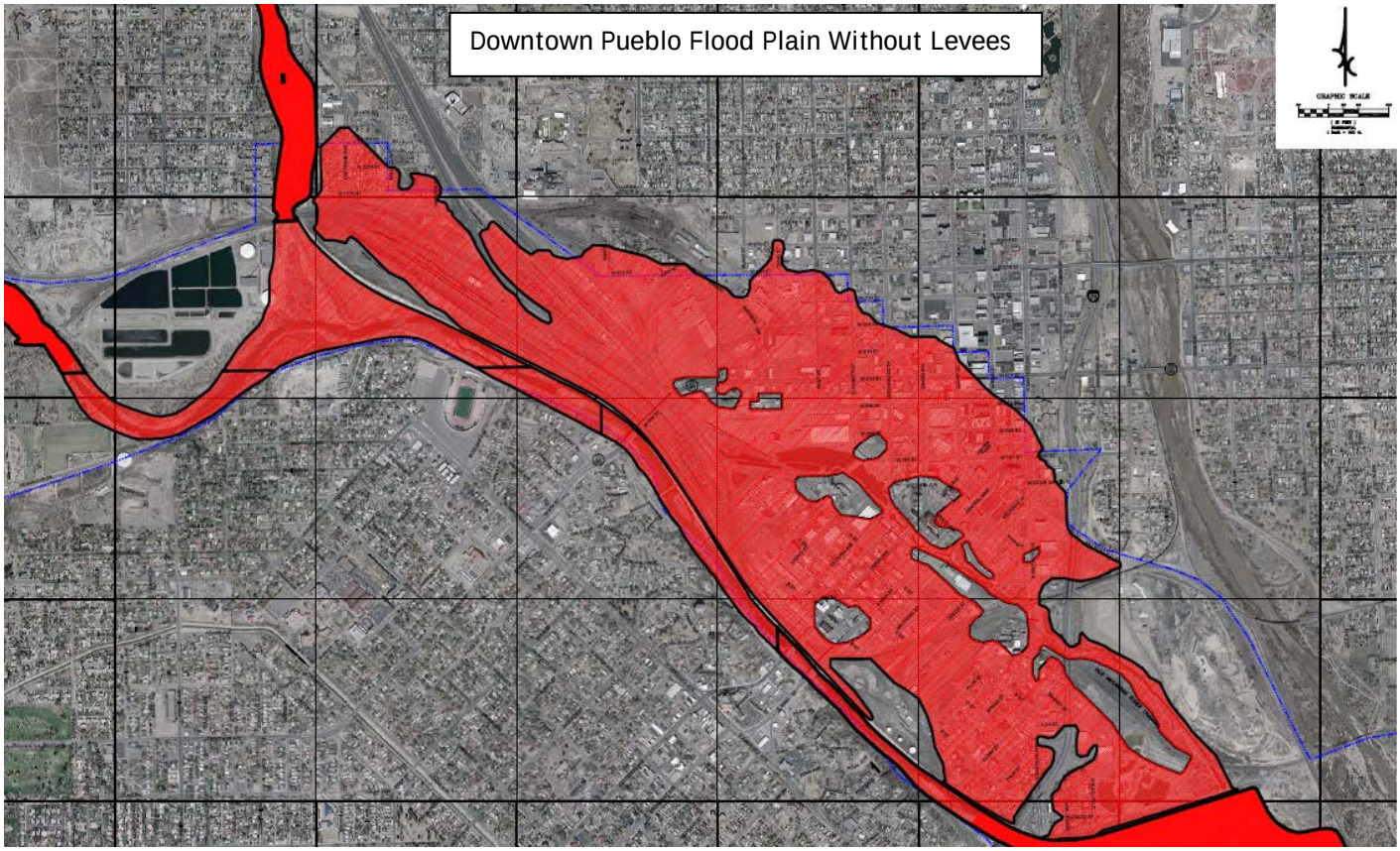
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	100% Low - TBD% Mid -0% High	0%

PROJECT DETAILS	
Project Type:	Flood Control
Average Annual Diversions:	N/A



LOCATION			
County:			Pueblo
Water Source:			Arkansas River
Drainage Basin:			Arkansas
Division:	2	*District:*	14

The District was formed in response to the 1921 flood in Pueblo. Its primary function is flood protection within its designated boundaries. In 2006, the District was advised that unless the Arkansas and Wildlhorse Creek levees were accredited by the Federal Emergency Management Agency (FEMA), the City would lose it protected status which ensures that flood insurance can be provided at affordable rates. To date, the District has completed the reconstruction and stabilization of 6,600 feet of the Arkansas River Levee, the top 12-feet of an additional 4,400 feet of the Arkansas Levee embankment has been removed, and 2,800 feet of Wildhorse Creek Levee has been constructed. The next phase of work is scheduled to begin in late 2017. Construction is limited to November to March when river flows are the lowest. The entire project is expected to be complete in 2022.



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

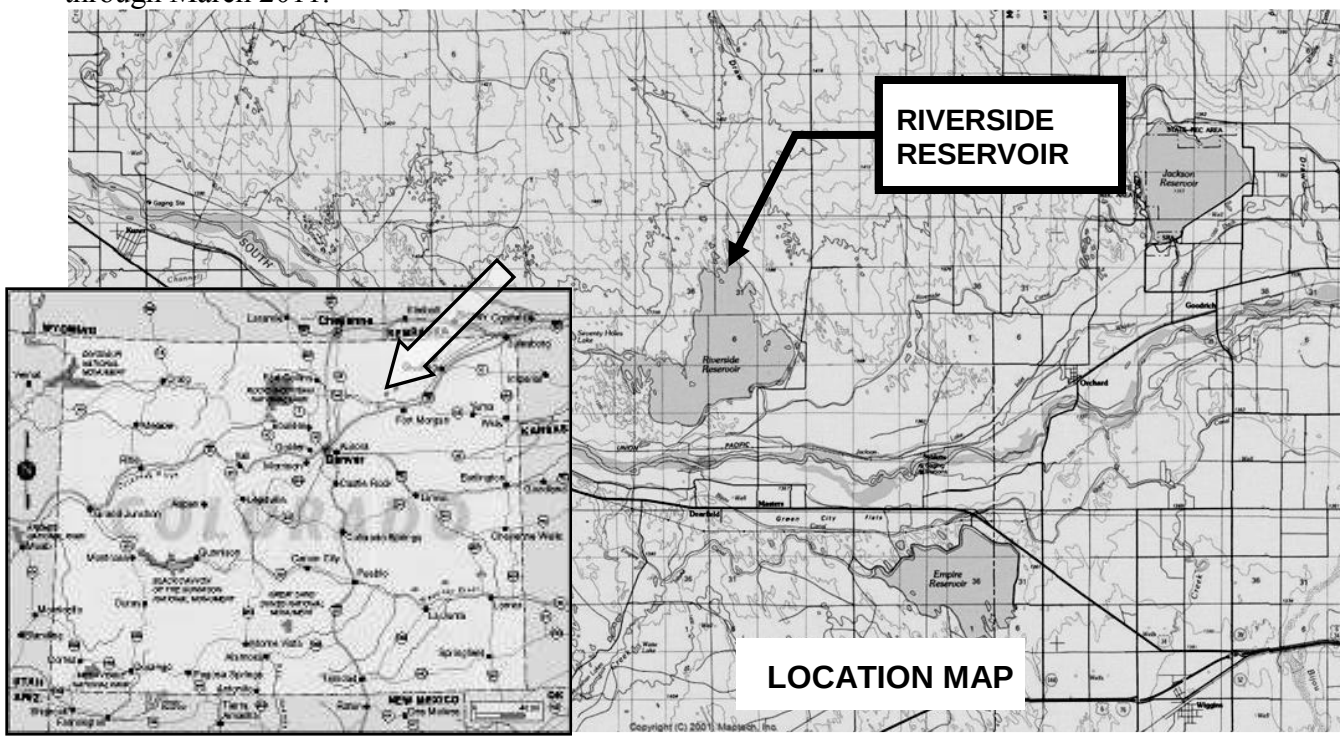
Average Delivery: 39,000 AF (from Reservoir storage) (105,000 Total AF for Company)

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.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Ravenna Development Interconnect

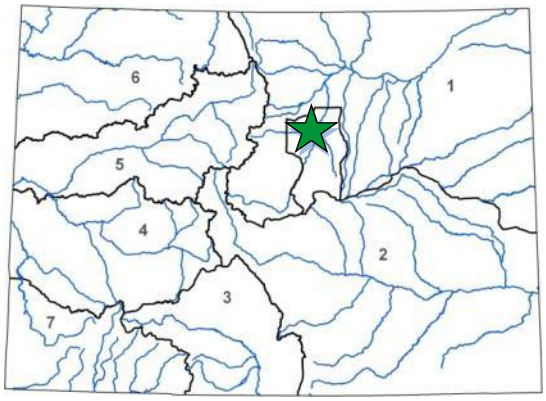
Roxborough Water and Sanitation District

July 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$1,763,750
CWCB Loan (with Service Fee):	$1,584,690
Loan Term and Interest Rate:	30 Years @ 3.15%
Funding Source:	TBD

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	0% Low - 0% Mid -100% High	0%

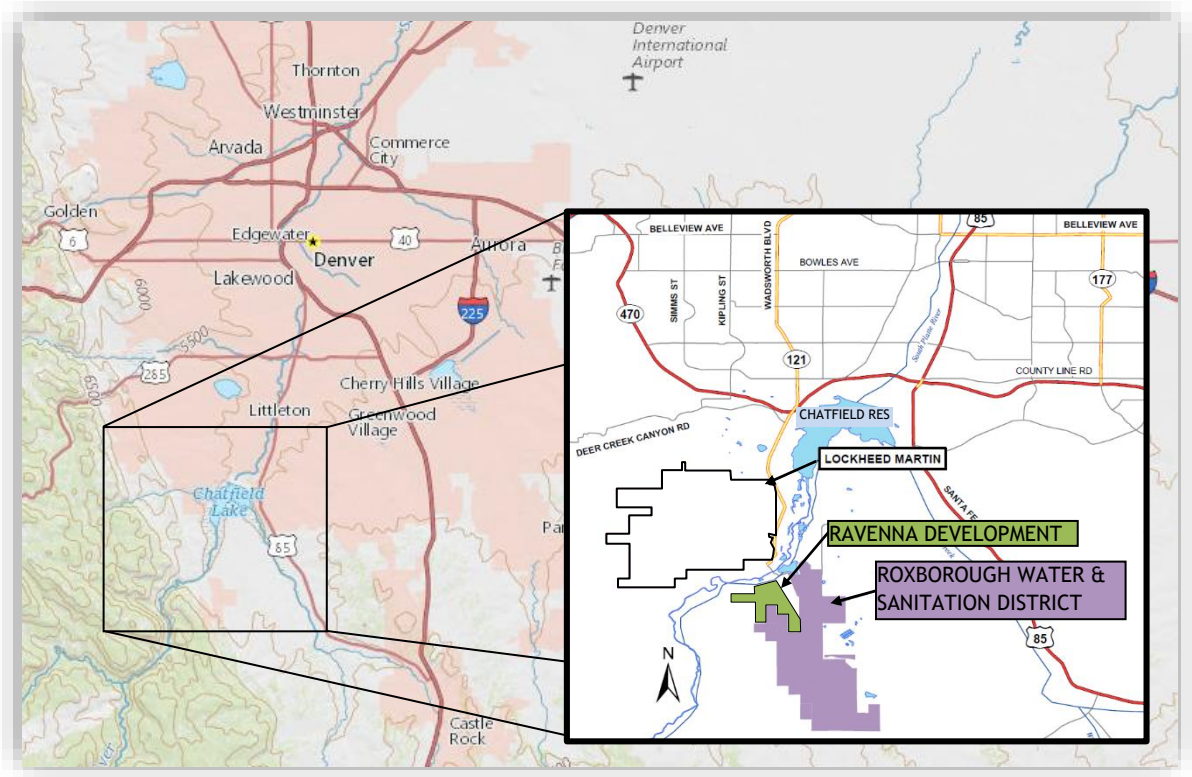
PROJECT DETAILS	
Project Type:	Municipal Water Supply System New
Average Annual Diversions:	1,200 AF



LOCATION			
County:			Douglas
Water Source:			South Platte River
Drainage Basin:			South Platte
Division:	1	*District:*	8

The Roxborough Water and Sanitation District was established in 1971 and provides water and sewer service within its service area in northwest Douglas County. In 2017 the District included the Ravenna Development (Ravenna) into its water service area. Ravenna sought inclusion into the District as a means to replace its non-renewable water supply (non-tributary groundwater wells) with a renewable water supply and as a means to efficiently provide potable water to the residents of Ravenna.

In summer of 2017, the District installed a single emergency interconnect with Ravenna and has been the sole source of potable water for Ravenna since. The inclusion agreement requires that in addition to the emergency interconnect, two additional interconnects between the District and Ravenna be constructed in order to provide a permanent and reliable water supply to Ravenna. Construction will include two new interconnections, a new pipeline, and the relocation of a pressure reducing valve. Final design, right-of-way acquisition, and county approvals is scheduled to be completed by fall 2018. Construction is expected to begin late 2018 and continue into the early part of 2019.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

San Luis Valley Canal Headgate Construction

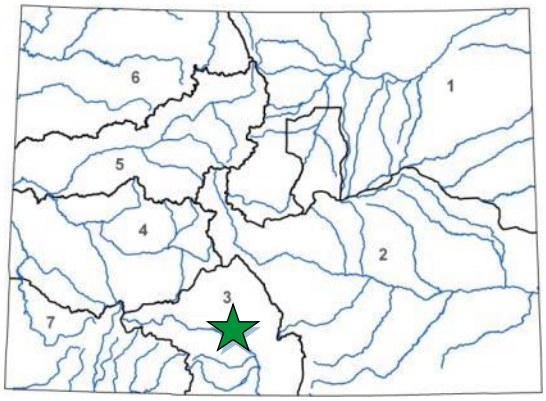
San Luis Valley Canal Company

May 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$569,000
CWCB Loan (with service fee):	$303,000
Loan Term and Interest Rate:	20 Years @ 1.45%
Funding Source:	Severance Tax PBF and WSRF Grant

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0%	0%

PROJECT DETAILS	
Project Type:	Headgate Replacement
Average Annual Diversions:	24,000 AF



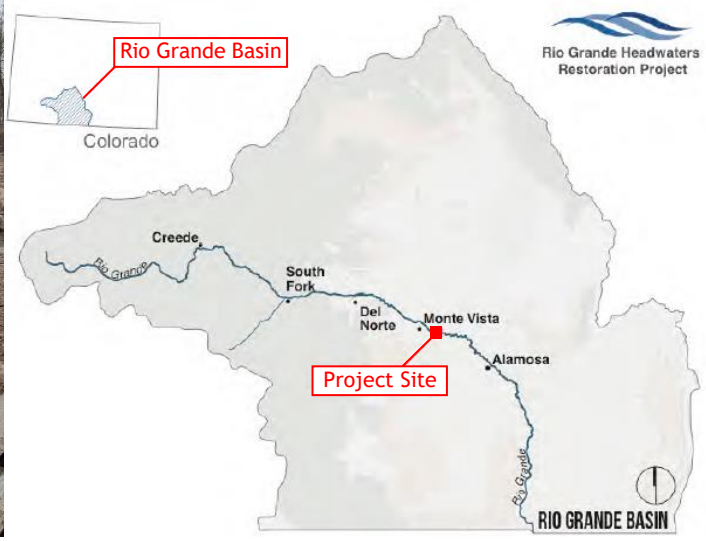
LOCATION			
County:			Rio Grande
Water Source:			Rio Grande
Drainage Basin:			Rio Grande
Division:	3	*District:*	20

The San Luis Valley Canal Company (Company) was incorporated as a mutual ditch company in 1923. It diverts water from the Rio Grande into the San Luis Valley Canal 4 miles east of the town of Monte Vista. The irrigation system serves 78 shareholders covering 20,200 irrigated acres. The Project is a structural and riparian improvement project that will improve the Company's ability to divert its water right as well as meet non-consumptive needs of the area by replacing a poorly functioning headgate and stabilizing streambanks.

The Colorado Rio Grande Restoration Foundation (Foundation) is the fiscal agent for the RGHRP and partnered with the Company, as well as four other ditch companies, to organize and raise funds for diversion and headgate improvement projects that also incorporate streambank stabilization and riparian restoration. The Foundation consolidated the individual ditch projects into a single WSRF Grant request known as "Five Ditches: Rio Grande Diversion and Headgate Improvement Project" (Five Ditches). The Foundation received a WSRF Grant to help cover the implementation cost of Five Ditches at the CWCB September 2017 Board Meeting. Additionally, the Foundation, at the CWCB May 2017 Board Meeting, received a WSRF Grant to cover the cost of engineering design for three headgate improvement projects around the Rio Grande State Wildlife Area, which included this Project. In total, $263,000 in WSRF grant funding is allocated to the San Luis Valley Headgate Construction Project.

Final Design is expected to be completed in spring 2018 with construction occurring between the 2018 and 2019 irrigation seasons.


San Luis Valley Canal Headgate



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Rio Grande Reservoir Rehabilitation Project

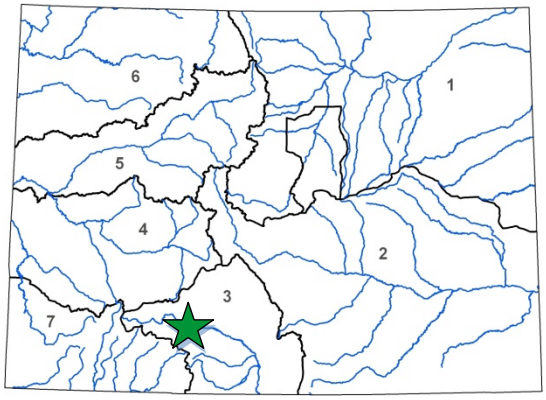
San Luis Valley Irrigation District

March 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$25M
Funding Package:	$10M Grant & $15M Loan
Loan Term and Interest Rate:	30 years @1.65%
Funding Source:	Const Fund & NonReimbursable

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0% Low - 0% Mid - 0% High	0%

PROJECT DETAILS	
Project Type:	Reservoir Rehabilitation
Preserved Storage:	51,113 AF



LOCATION			
County:	*Hinsdale,* Rio Grande		
Water Source:	Beaver Creek & Rio Grande		
Drainage Basin:	Rio Grande		
Division:	3	*District:*	20

The San Luis Valley Irrigation District is applying for a loan and grant for the Rio Grande Reservoir Rehabilitation – Phase 2 (Project). The purpose of the Project is to rehabilitate the outlet works of the on-channel Rio Grande Reservoir Dam. The Reservoir has a capacity of 51,113 acre-feet and delivers water to nearly 62,000 acres of agricultural land in the San Luis Valley. The Reservoir's outlet has long been a limiting factor in the administration of the Rio Grande.

This Project is vital to the basin and region as it will provide operational efficiencies by better managing the timing of water stored and released from the Reservoir. This will result in improved stream health and utilization of Rio Grande water by the District, the State of Colorado, and the many other water users in the basin.

The total Project cost estimate (Phase 1 & 2) is $30,000,000. The District received a $5,000,000 grant in Projects Bill SB12S-002 for Phase 1, which included seepage control improvements, a U.S. Forest service land exchange, and final design of the outlet works. SB12S-002 also included an appropriation for a loan and grant funding package of $15,000,000. A subsequent Projects Bill in 2017 (HB17-1248) increased this loan/grant funding package to $25,000,000.

The District, is requesting a loan from the CWCB for 60% of the Phase 2 Project costs and a grant for 40% of the Phase 2 Project costs.

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Lake 4 Outlet Pipeline Repair

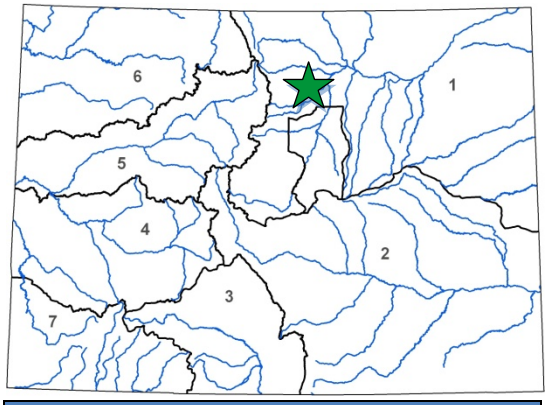
St. Vrain and Left Hand Water Conservancy District

January 2017 Board Meeting

LOAN DETAILS	
Project Cost:	$912,000
CWCB Loan (with Service Fee):	$619,130
Loan Term and Interest Rate:	30 Years @ 2.85%
Funding Source:	Construction Fund

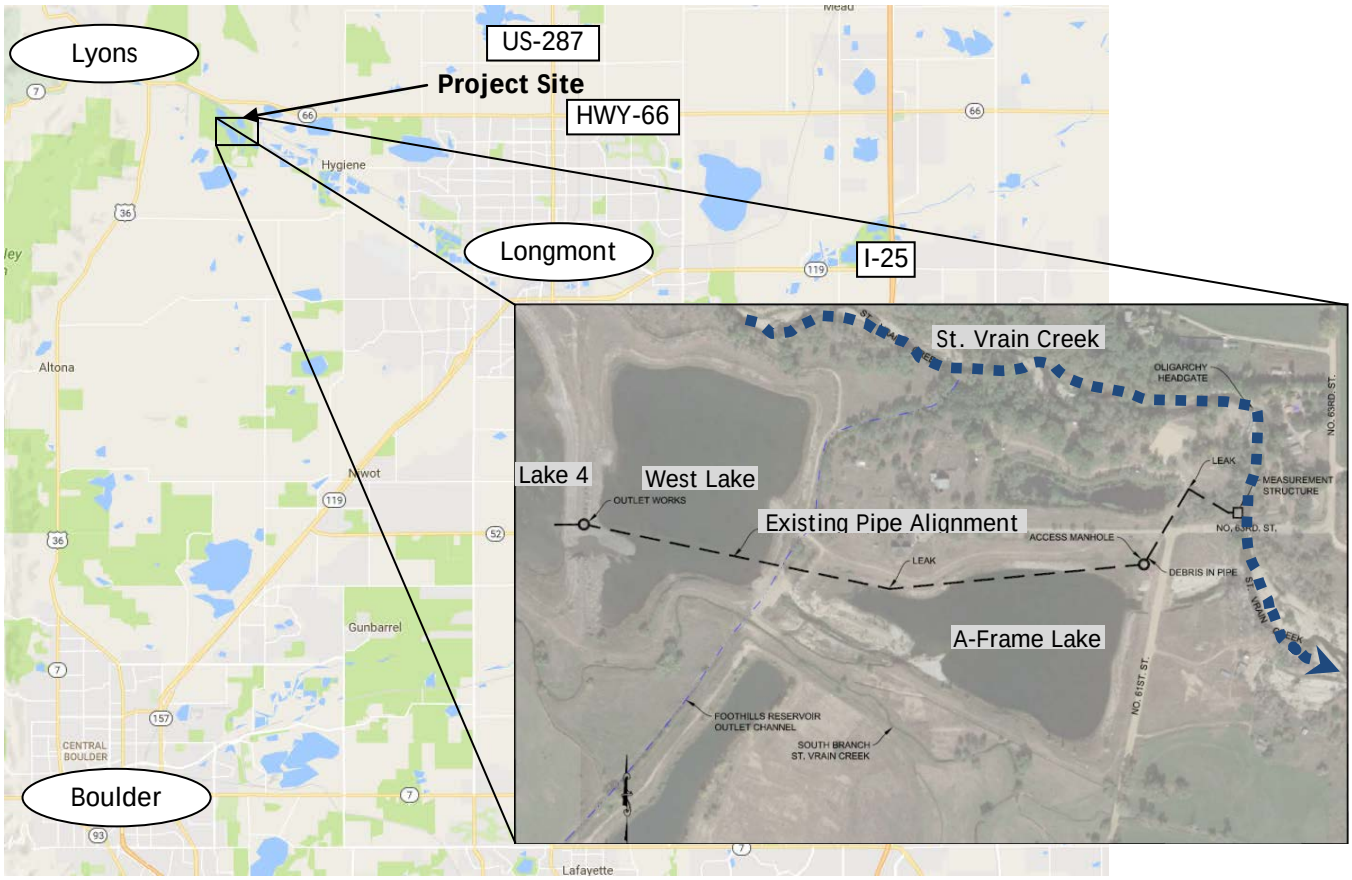
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	0% Low - 0% Mid - 97% High	3%

PROJECT DETAILS	
Project Type:	Reservoir Rehabilitation
Average Annual Delivery:	182 AF
Storage Preserved:	600 AF



LOCATION			
County:			Boulder
Water Source:			St Vrain Creek
Drainage Basin:			South Platte
Division:	1	*District:*	5

The St. Vrain and Left Hand Water Conservancy District and Boulder County Parks and Open Space jointly own a lined reservoir known as Rock'n WP Ranch Lake No. 4 (Lake 4). Lake 4 was created by reclaiming mined slopes, installing a slurry wall liner around the former gravel pit, and installing inlet and outlet structures. The outlet works included a half-mile-long 18-inch reinforced concrete pipe approximately extending from the dam to the St. Vrain Creek. The District and County County recently inspected the outletworks pipeline and determined that it is leaking in several locations. It is critical for reservoir accounting and water rights administration purposes that the water delivered through the pipeline be water from Lake 4 and not groundwater leaking into the pipe between the dam and the river. Therefore the District and Boulder County desire to repair the pipe to resolve the leakage and to extend the service life of the structure.



CWCB Water Project Loan Program
Project Data Sheet

Borrower: St. Vrain and Left Hand Water Conservancy District
Project Name: Emergency Rock'n WP Ranch Lake No. 4 Repair Project
Drainage Basin: South Platte

Total Project Cost: $9,000,000

Type of Borrower: Blended

CWCB Loan: $4,545,000 (with 1% service fee)

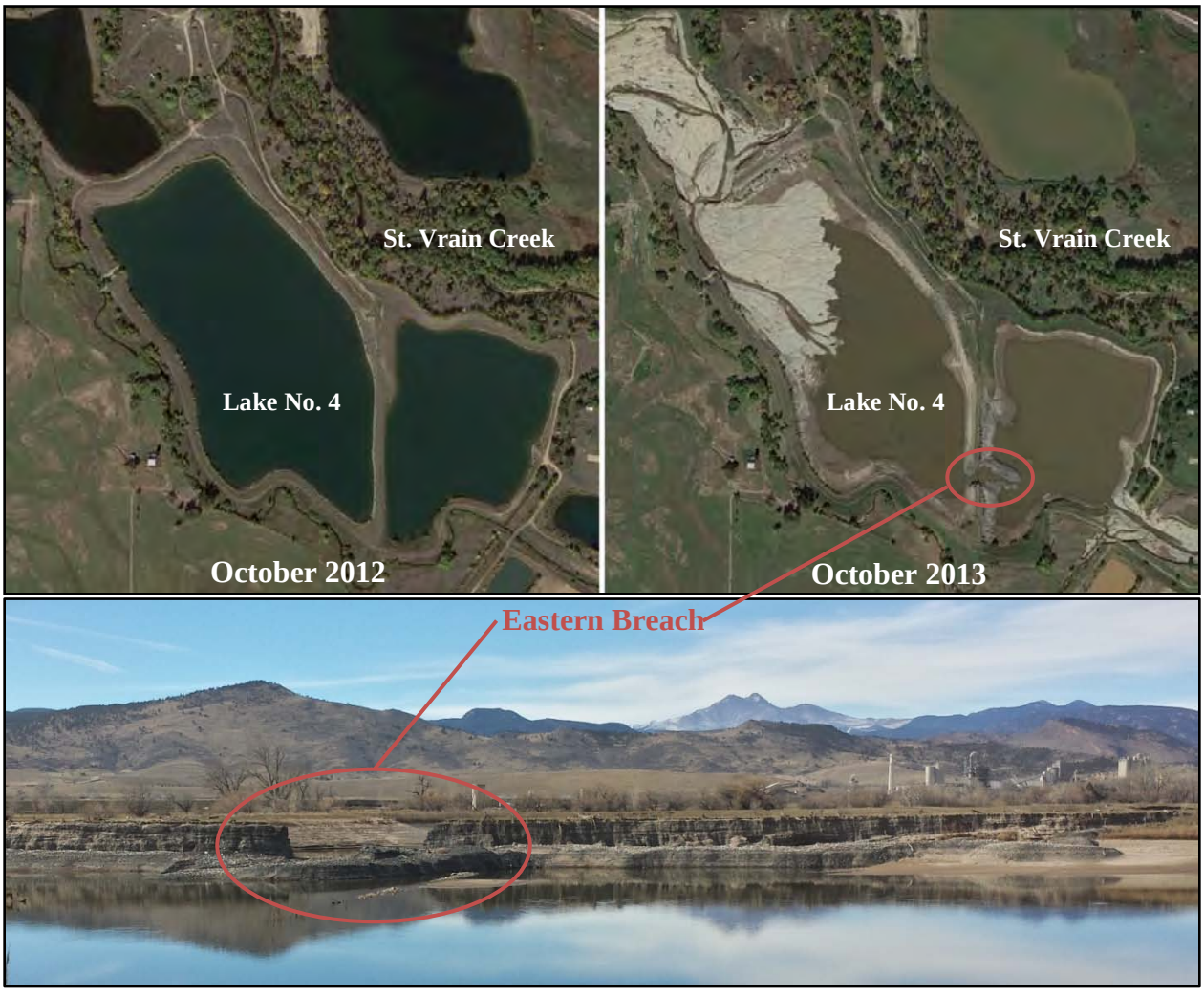
County: Boulder

Project Type: Reservoir Rehabilitation

Water Source: St. Vrain Creek

Funding Source: Severance Tax Perpetual Base Fund
Average Annual Augmentation: 200 AF
Preserved Water Supply Storage: 600 AF
Interest Rate: 3.2% **Term:** 30-years
(Ownership: 93% High Municipal, 7% Commercial)

During the unprecedented flood of September 2013 in the tributaries to the South Platte River, a significant number of diversion structures and dams along the river corridor were damaged including the District's Rock'n WP Ranch Lake No. 4. During the flood, St. Vrain Creek breached in over four locations above the Lake. The unlined gravel pits above the Lake were flooded, causing their earthen embankments to fail, sending flood water into the Lake. The Lake filled and eventually overtopped, breaching its eastern embankment. The purpose of the Project is to repair the Lake to resume its use as a water augmentation reservoir by the District. Boulder County is a co-owner of the Lake. As the County and the District are public agencies, it is expected that FEMA will reimburse 75% of the Project Cost and the State's Public Assistance Program will cover 12.5% under their respective emergency programs. The remaining cost of repairs will be evenly split with Boulder County.



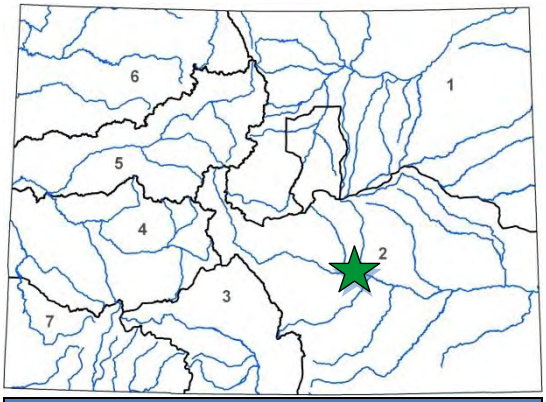
COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Arkansas Valley Conduit Phase One
Pueblo Dam Hydroelectric Project

Southeastern Colorado Water Conservancy District

July 2016 Board Meeting

LOAN DETAILS	
Project Cost:	$19,060,000
CWCB Loan (with Service Fee):	$17,392,200
Loan Term and Interest Rate:	30 Years @ 2.0%
Funding Source:	Severance Tax PBF
BORROWER TYPE	
Hydropower	
PROJECT DETAILS	
Project Type:	Hydroelectric
Average Annual Power Production:	28M KWh



LOCATION			
County:			Pueblo
Water Source:			Arkansas River
Drainage Basin:			Arkansas River
Division:	2	*District:*	10

Southeastern Colorado Water Conservancy District, acting by and through its water activity enterprise, is applying for a loan for the construction of the Pueblo Dam Hydroelectric Project. The Project is located at the existing Pueblo Dam and will utilize the existing releases to the Arkansas River without changing the flow regime. This Project is being constructed as Phase One of the overall Arkansas Valley Conduit project, authorized in the 2007 and 2009 Projects Bill (SB07-122, SB09-125). The purpose of the Project is to develop a revenue source to offset the operational and maintenance cost of the Arkansas Valley Conduit.

The proposed 7.5 megawatt facility will be located on the North Outlet of Pueblo Dam. A powerhouse would be located at the downstream end of the existing outlet works that supplies water to the Arkansas River and would allow the Dam's authorized releases to generate an annual average 28 million kWh (enough to power approximately 3,300 homes) and $1,500,000 in average revenue per year. The Project is being performed under the U.S. Bureau of Reclamation's Lease of Power Privilege (LOPP) process. Power generated will be purchased by Colorado Springs Utilities via transmission through the local Black Hills Energy power delivery system. Construction is planned to start in October 2016 for commissioning in May 2018.


Powerhouse Rendering

SOUTHEASTERN COLORADO
Water Conservancy District
"Your investment in water"

Colorado Springs Utilities
It's how we're all connected

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Storage Development and Water Rights Purchase

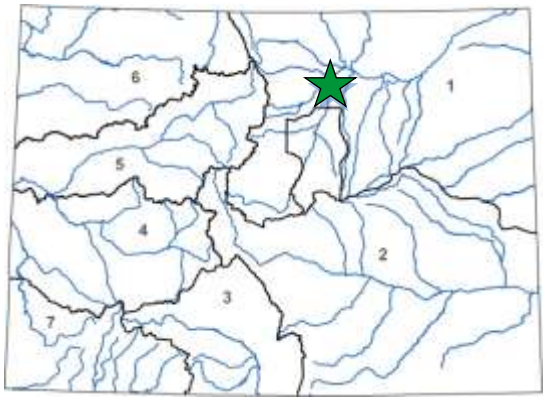
Town of Firestone

November 2016 Board Meeting

LOAN DETAILS	
Project Cost:	$10,043,150
CWCB Loan (with Service Fee):	$10,000,000
Loan Term and Interest Rate:	*20 Years @ 2.35%*
Funding Source:	Construction Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	0% Low - 0% Mid - 100% High	0%

PROJECT DETAILS	
Project Type:	Storage and Water Rights Purchase
Average Annual Delivery:	2442 AF
Storage Created:	1092 AF



LOCATION			
County:			Weld
Water Source:			*St. Vrain River / Boulder Creek*
Drainage Basin:			South Platte River
Division:	*1*	*District:*	*2*

The Town of Firestone's boundary encompasses approximately 9,089 acres and is generally located east of Interstate 25 between Highway 66 and Highway 52. The Town of Firestone provides water and wastewater services to approximately 12,110 residents and operates a water distribution network of approximately 58.5 miles of pipeline and associated facilities. The purpose of this project is to provide a water storage project to help meet the Town's current and future non-potable water needs. For planning purposes, the Town is pursuing a little over two times the demand, or 2,000 acre-feet of non-potable storage for the Town. As a short-term water supply goal, the Town is requesting funds to Purchase the Carbon Valley Resource Pit and acquire 1,092 acre-feet as part of this project.

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Mountain Home Dam Outlet Rehabilitation Phase III

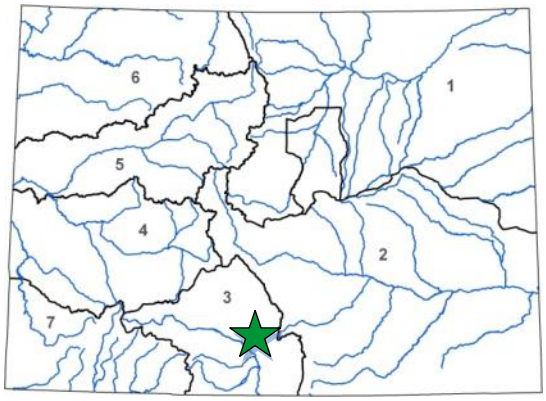
Trinchera Irrigation Company

March 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$987,000
CWCB Loan (with Service Fee):	$440,360
Loan Term and Interest Rate:	30 years @ 1.65%
Funding Source:	Severance Tax PBF & WRSF

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0% Low - 0% Mid - 0% High	0%

PROJECT DETAILS	
Project Type:	Dam Rehabilitation
Average Annual Diversions:	9,000 AF

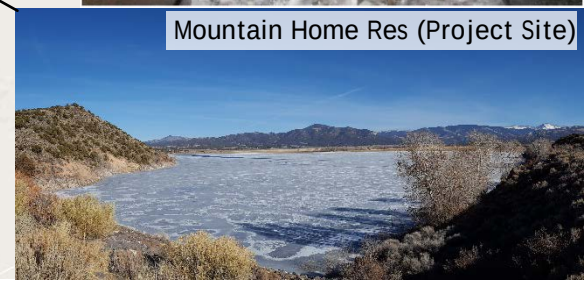


LOCATION			
County:			Costilla
Water Source:			Trinchera Creek
Drainage Basin:			Rio Grande
Division:	2	*District:*	14

Trinchera Irrigation Company is located in Costilla County and owns and operates Mountain Home Reservoir, Smith Reservoir, and approximately 26 miles of canals and 45 miles of laterals. Mountain Home Reservoir (Reservoir) was built in 1908 and has a capacity of 17,964 AF. The Reservoir's primary function is for irrigation but Colorado Parks and Wildlife operates a State Wildlife Area around the Reservoir and maintains a conservation pool of 653 AF in the Reservoir.

The Reservoir's existing outlet works experience significant leakage and since only one of the three valves is operable, does not meet the State Engineer's Office, Dam Safety Branch's emergency drawdown requirements. This Project will replace the original valves with new valves and make other minor repairs to the outlet including a new trash rack, line the outlet tunnel and tower, and replace the gate house. Successful repair of the dam outlet works will prevent a storage restriction, recover approximately 2,000 AF currently lost to leakage, and ensure the long-term integrity and protection of 11,800 acres of irrigated land, as well as the environment, wildlife, and recreation at the State Wildlife Area. Funding for the project will come from the CWCB loan and $513,000 in WSRF grant funds.


Leakage from Outlet Valves


Mountain Home Res (Project Site)

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Laramie-Poudre Tunnel Rehabilitation

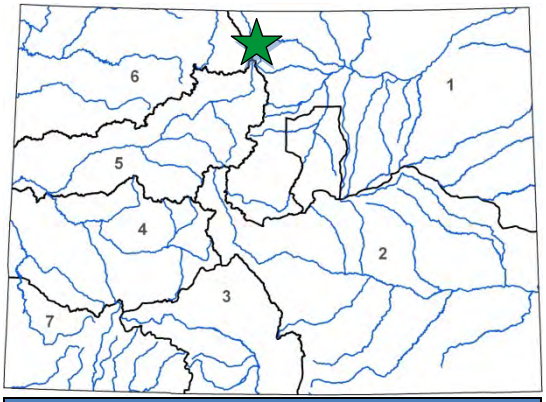
The Tunnel Water Company

September 2015 Board Meeting

LOAN DETAILS	
Project Cost:	$1,225,000
CWCB Loan (with Service Fee):	$1,111,000
Loan Term and Interest Rate:	30 Years @ 2.55%
Funding Source:	Construction Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
24%	20% Low - 24% Mid - 32% High	0%

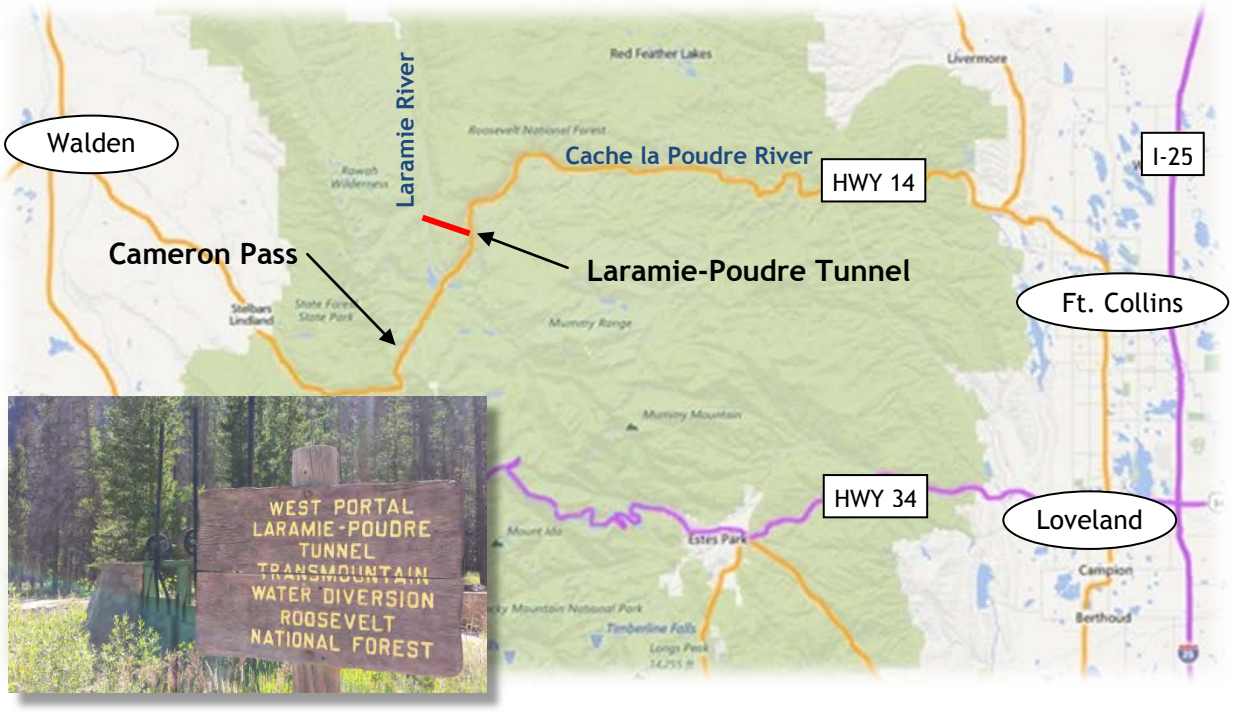
PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Diversion:	6,875 AF



LOCATION			
County:			Larimer
Water Source:			Laramie River
Drainage Basin:	North Platte/South Platte		
Division:	1	*District:*	48/3

The Tunnel Water Company operates the Laramie-Poudre Tunnel for the benefit of its two shareholders: Water Supply and Storage Company (WSSC) and Windsor Reservoir and Canal Company (WRCC). The tunnel diverts from the Laramie River, about 60 miles west of Fort Collins, and delivers water through a 2.15-mile tunnel to the Poudre River. WSSC delivers irrigation water to its shareholders, primarily for agricultural irrigation on approximately 40,000 acres lying below the Larimer County Canal. WRCC delivers water to its municipal shareholders via the Soldier Canyon and Bellvue Water Treatment Plants.

The Company purchased the Laramie Poudre Tunnel and its adjoining Laramie River System in 1938. The west portal (inlet) has deteriorated since it was originally constructed in 1910. The interior timber cribbing and concrete lining are at or near the end of their useful lives and the steepness of the slope of this section makes it very difficult to access the tunnel for maintenance. Additionally the east portal's (outlet) concrete energy attenuation structure, which has been resurfaced many times before, is heavily spalled and near failure. The Company is seeking this CWCB loan to cover 90% of construction cost associated with the west and east portal repairs. West portal repairs will occur after the 2015 irrigation season with the east portal repairs being completed after the 2016 irrigation season.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

City Lake Dam Rehabilitation & Enlargement

City of Walsenburg

July 2017 Board Meeting

LOAN DETAILS	
Project Cost:	$6,821,000
CWCB Loan (with Service Fee):	$6,889,210
Loan Term and Interest Rate:	30 years @ 2.0%
Funding Source:	Severance Tax

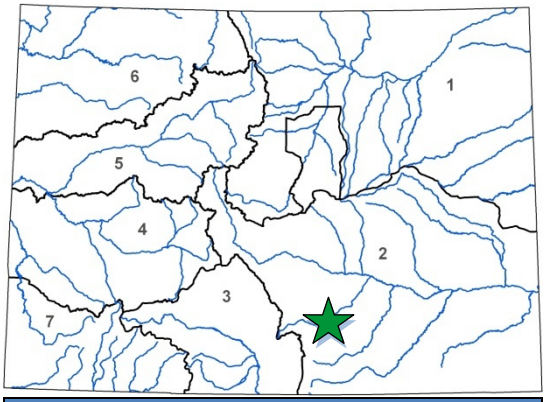
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	100% Low - 0% Mid - 0% High	0%

PROJECT DETAILS	
Project Type:	Reservoir Rehabilitation
Average Annual Delivery:	730 AF
Total Reservoir Storage:	531 AF
Water Storage Developed:	120 AF

The City of Walsenburg's City Lake dam and reservoir provides the primary water supply and storage for the City's water treatment plant located downstream of the dam. This dam has been subject to a State Engineer's Office (SEO) safety compliance plan since September of 2014, and a formal storage restriction since April 2017 as a result of dam safety deficiencies including seepage, stability, and spillway capacity. The dam safety imposes a 1-foot storage restriction on April 1, 2017, a 2-foot storage restriction on November 15, 2017, and a 3-foot storage restriction on May 1, 2019.

The City needs the full storage capacity of City Lake to adequately supply their water treatment plant and to ensure future water supplies.

Elements of the Project include dam embankment reconstruction, new outlet works, new spillway construction, riprap channel lining, and a temporary bypass conduit to route water to the water treatment plant. The project will increase storage by 120 acre-feet by raising the dam embankment three feet. Construction is planned for 2017/2018.



LOCATION			
County:			Huerfano
Water Source:			Cucharas River
Drainage Basin:			Arkansas River
Division:	2	*District:*	*16*

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Wiggins Recharge Facility at Glassey Farms

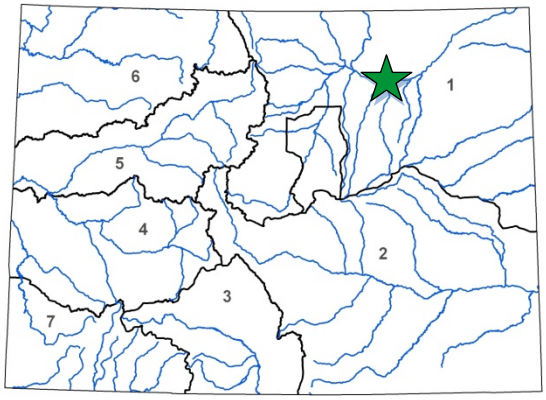
Town of Wiggins

March 2017 Board Meeting

LOAN DETAILS	
Project Cost:	$2,385,000
CWCB Loan:	$2,408,850
Loan Term and Interest Rate:	30 Years @ 2.40%
Funding Source:	Severance Tax PBF

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	100% Low - 0% Mid - 0% High	0%

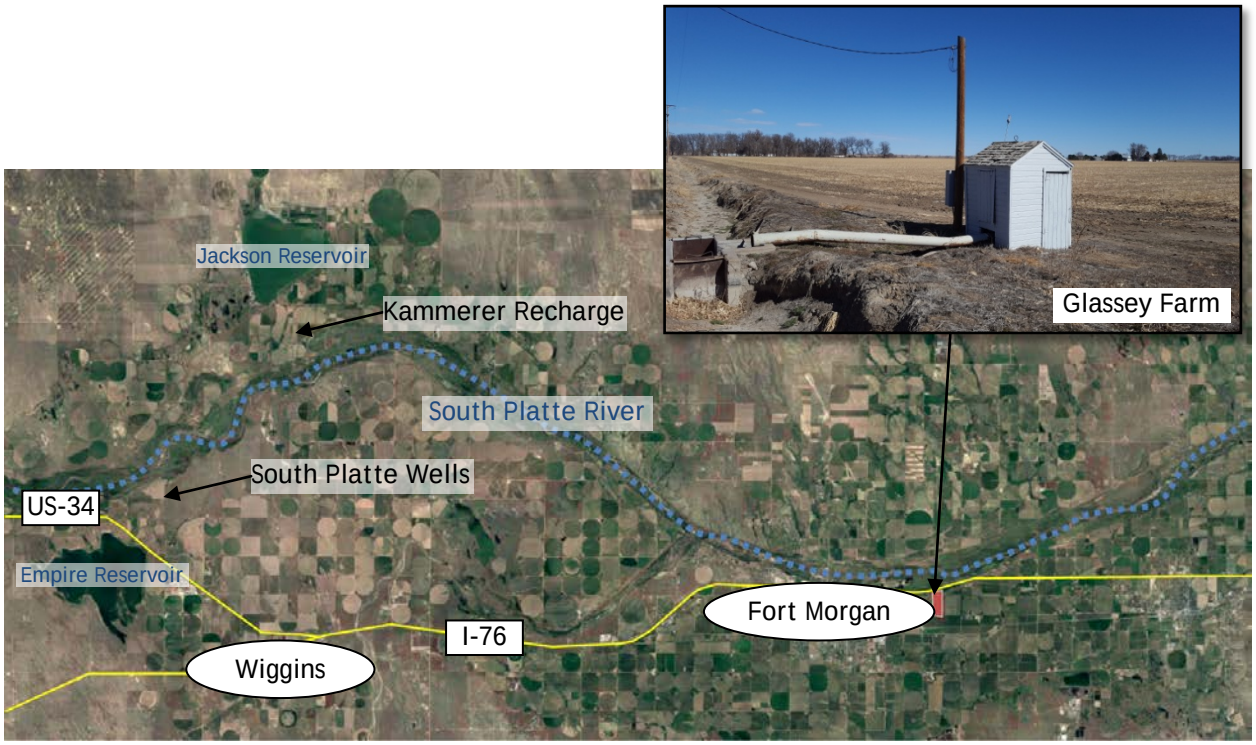
PROJECT DETAILS	
Project Type:	Augmentation
Average Annual Delivery:	140 AF



LOCATION			
County:			Morgan
Water Source:			South Platte River
Drainage Basin:			South Platte River
Division:	1	*District:*	1

The Town of Wiggins, through a water activity enterprise, provides service to approximately 900 residents. The Town anticipates considerable growth over the next 10 years due to four new developments recently annexed into the Town limits. Those developments are projected to bring up to 310 jobs into Wiggins over the next 5 years and approximately 500 new single family units and 150 multi-family units.

Historically the Town has relied on non-tributary wells drilled into the Kiowa Bijou Designated Ground Water Basin. Due to water quality issues and dropping aquifer levels, the Town drilled two wells into the South Platte Alluvial Aquifer. Those wells are augmented through the Kammerer Recharge site and augmentation water leases. In order to develop a reliable and long-term augmentation water supply, the Town will purchase the Glassey Farm and associated water rights. Recharge ponds will take approximately 40 acres and the Town is in negotiations with Morgan County Community College to share the remaining farmland for an agricultural education program focused on low watering farming techniques. Construction is planned to begin summer 2017 and be complete by fall 2017.



CWCB Water Project Loan Program
Project Data Sheet

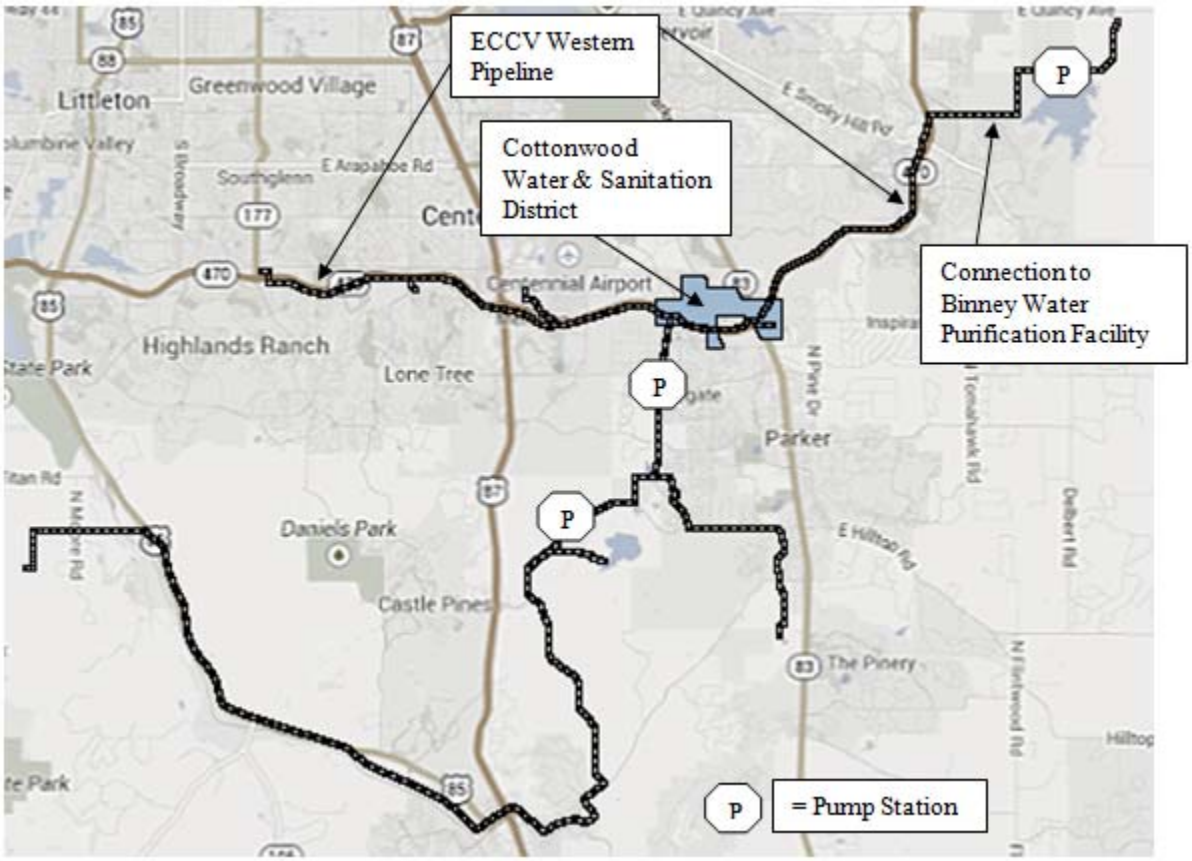
C150408

Borrower: Cottonwood Water & Sanitation District
County: Douglas & Arapahoe
Project Name: Water Infrastructure and Supply (WISE) Efficiency Project
Project Type: New Water Supply
Drainage Basin/ District: South Platte / 8
Water Source: South Platte
Total Project Cost: $4,960,000
Funding Source: Construction Fund
Type of Borrower: High-Income Municipal
Average Annual Delivery: 789 AF
CWCB Loan: $4,508,640 (with 1% service fee)
Interest Rate: 3.00% **Term:** 30 years

In 1981, the Cottonwood Water & Sanitation District was formed, pursuant to Title 32 C.R.S., to provide water supply and treatment systems for customers within its service area.

Cottonwood's local project infrastructure components will extend from an existing tee located on the ECCV Western Pipeline, where a below-grade vault with flow control and metering equipment will be installed. From this location 500 feet of 36-inch pipe will be installed to connect to an existing Cottonwood pipeline. In addition, Cottonwood will also participate in a Rueter-Hess Reservoir fill pipeline and pump station being constructed by Parker.

The WISE Project is the result of regional cooperative planning efforts between Denver Water, Aurora Water, and 10 regional water providers in the south metropolitan area. The South Metro WISE Authority (WISE Authority) is comprised of ten governmental water providers in Douglas and Arapahoe Counties bound together by a 2013 Intergovernmental Agreement. The WISE Project will reduce dependence on non-renewable groundwater resources.



CWCB Water Project Loan Program
Project Data Sheet

C150409

Borrower: Inverness Water & Sanitation District

County: Douglas & Arapahoe

Project Name: Water Infrastructure and Supply (WISE) Efficiency Project

Project Type: New Water Supply

Drainage Basin/ District: South Platte / 8

Water Source: South Platte

Total Project Cost: $5,400,000

Funding Source: Construction Fund

Type of Borrower: High-Income Municipal

Average Annual Delivery: 1,100 AF

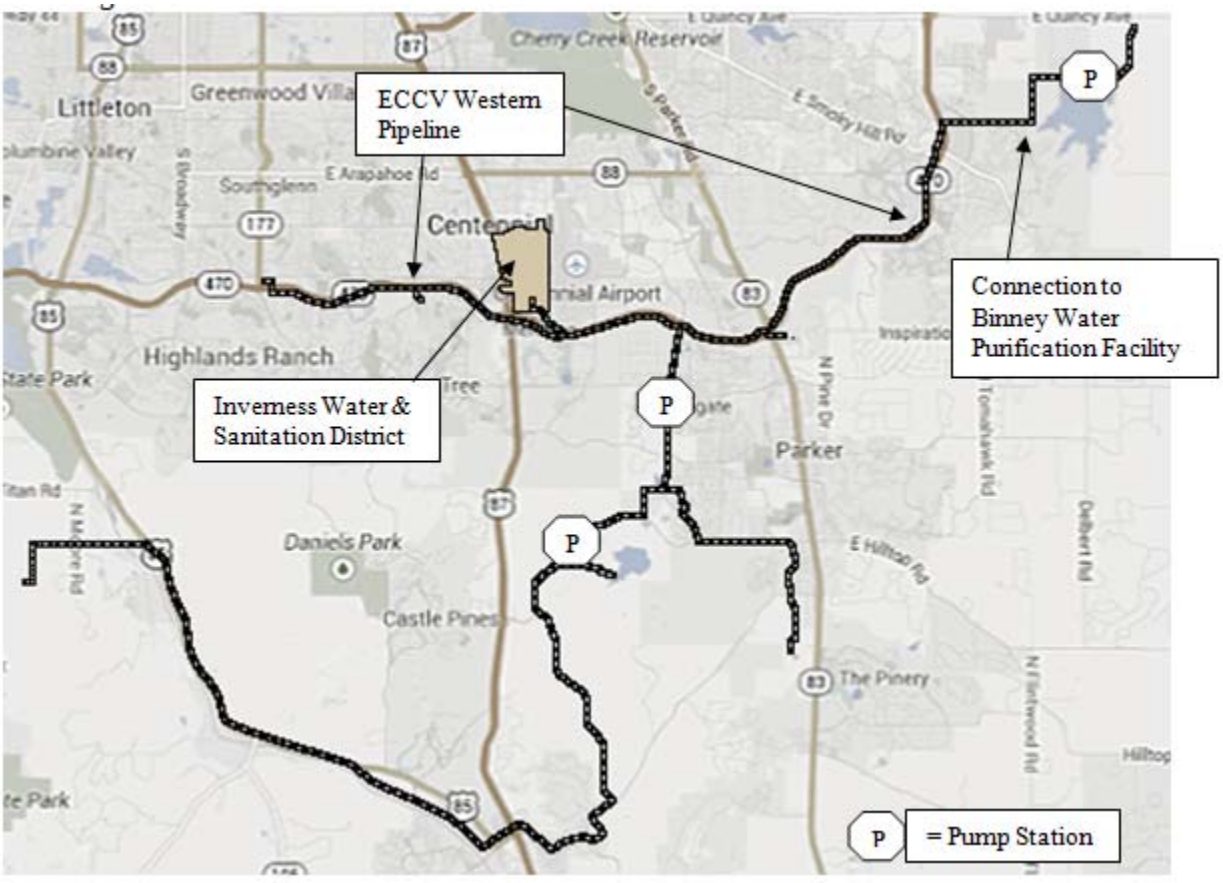
CWCB Loan: $4,908,600 (with 1% service fee)

Interest Rate: 2.75% **Term:** 20 years

In 1973, Inverness was formed pursuant to Article 1 of Title 32 C.R.S. to provide water supply and treatment systems for the customers within their service area.

Inverness will have a connection to the East Cherry Creek Valley (ECCV) Western Pipeline near the intersection of South Jamaica Street and E-470. Immediately downstream of the connection will be a below-grade vault with flow control and metering equipment. Downstream of the vault will be approximately 1,800 feet of 10-inch pipe to connect to the existing Inverness distribution system.

The WISE Project is the result of regional cooperative planning efforts between Denver Water, Aurora Water, and 10 regional water providers in the south metropolitan area. The South Metro WISE Authority (WISE Authority) is comprised of ten governmental water providers in Douglas and Arapahoe Counties bound together by a 2013 Intergovernmental Agreement. The WISE Project will reduce dependence on non-renewable groundwater resources.



CWCB Water Project Loan Program
Project Data Sheet

C150410

Borrower: Parker Water & Sanitation District

County: Douglas & Arapahoe

Project Name: Water Infrastructure and Supply (WISE) Efficiency Project

Project Type: New Water Supply

Drainage Basin/ District: South Platte / 8

Water Source: South Platte

Total Project Cost: $17,305,500

Funding Source: Construction Fund

Type of Borrower: High-income Municipal

Average Annual Delivery: 5,000 AF

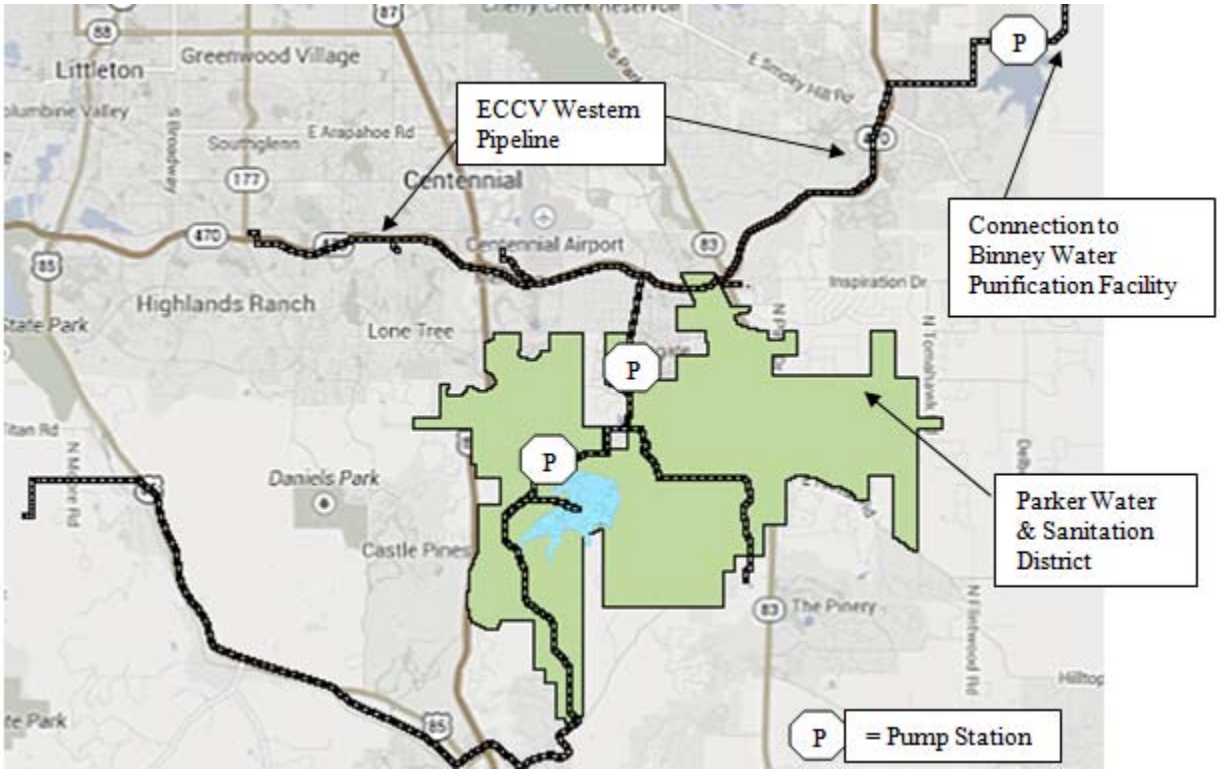
CWCB Loan: $15,734,790 (with 1% service fee)

Interest Rate: 2.75% **Term:** 20 years

Parker Water and Sanitation District is a quasi-municipal corporation and political subdivision of the State of Colorado created in 1962 in Douglas County, for the purpose of providing water and sanitary sewer services its users.

Parker will take the lead on construction of 20,300 feet of new 42-inch pipeline from near the intersection of Chambers Road and E-470 to the Parker Water Treatment Plant located just south of Rueter-Hess Reservoir. Southward from the treatment plant a 16.5 million gallons per day pumping station will be constructed, followed by 9,000 feet of new 24-inch pipe that will allow WISE water to be conveyed to Rueter-Hess Reservoir for storage. Parker's facilities will oversized for use by other WISE Authority members.

The WISE Project is the result of regional cooperative planning efforts between Denver Water, Aurora Water, and 10 regional water providers in the south metropolitan area. The South Metro WISE Authority (WISE Authority) is comprised of ten governmental water providers in Douglas and Arapahoe Counties bound together by a 2013 Intergovernmental Agreement. The WISE Project will reduce dependence on non-renewable groundwater resources.



CWCB Water Project Loan Program
Project Data Sheet

C150411

Borrower: Denver Southeast Suburban Water and Sanitation District (dba Pinery Water and Wastewater District)

County: Douglas

Project Name: Water Infrastructure and Supply (WISE) Efficiency Project

Project Type: New Water Supply

Drainage Basin/ District: South Platte / 8

Water Source: South Platte

Total Project Cost: $10,920,000

Funding Source: Construction Fund

Type of Borrower: High-income Municipal

Average Annual Delivery: 2,837 AF

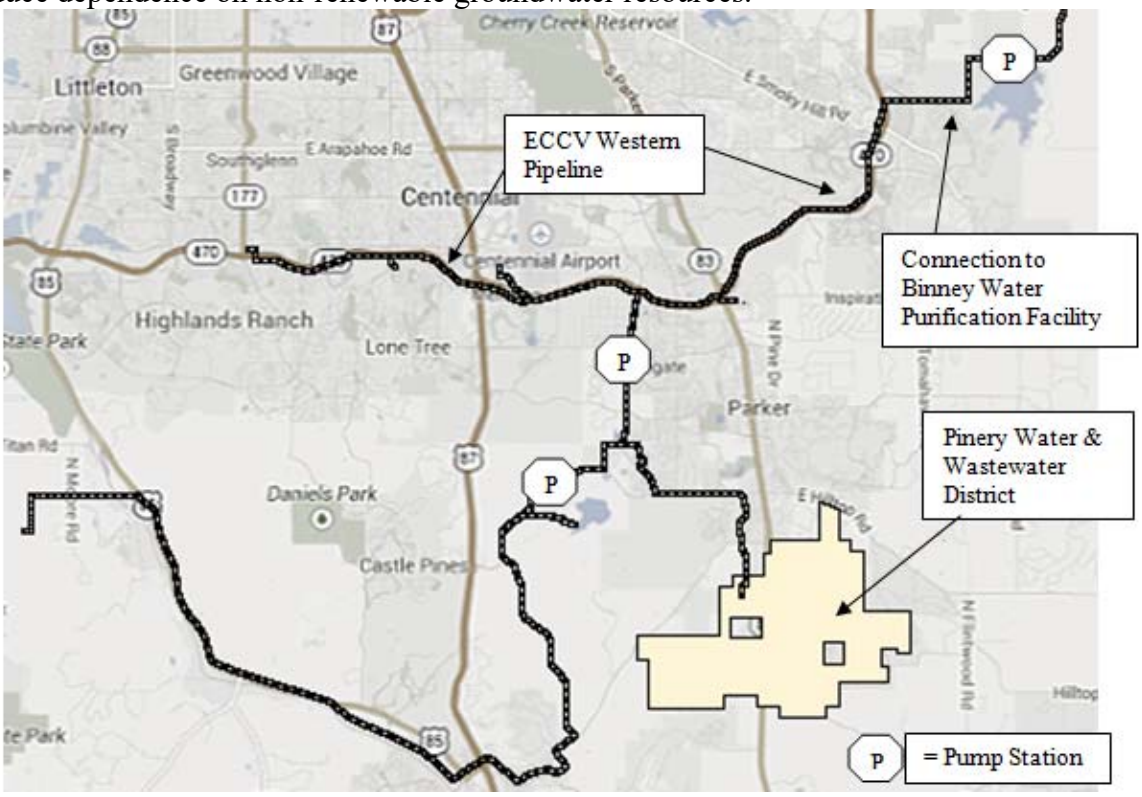
CWCB Loan: $9,926,280 (with 1% service fee)

Interest Rate: 3.00% **Term:** 30 years

In 1965, the District was formed as the Denver Southeast Suburban Water and Sanitation District. The District has been providing water and wastewater services since 1971 to its predominately residential customers.

The District will participate in Parker's WISE infrastructure components including 20,300 feet of new 42-inch pipeline from near the intersection of Chambers Road and E-470 to the Parker Water Treatment Plant located just south of Rueter-Hess Reservoir. At the Parker Water Treatment Plant site a new 16.5 million gallons per day pumping station will be constructed. Downstream of the pumping station 9,000 feet of new 24-inch pipe will be constructed that will allow WISE water to be conveyed to Reuter-Hess Reservoir for storage. In addition, Pinery will construct about 6,200 feet of 12-inch pipeline to deliver water to an existing finished water distribution system pumping station.

The WISE Project is the result of regional cooperative planning efforts between Denver Water, Aurora Water, and 10 regional water providers in the south metropolitan area. The South Metro WISE Authority (WISE Authority) is comprised of ten governmental water providers in Douglas and Arapahoe Counties bound together by a 2013 Intergovernmental Agreement. The WISE Project will reduce dependence on non-renewable groundwater resources.



Projects Not Under Contract

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Hess Lateral Improvement

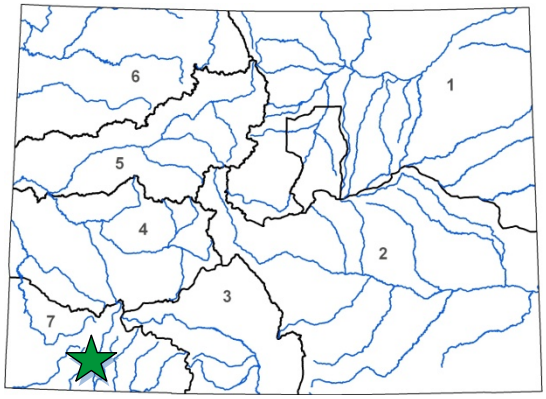
Florida Consolidated Ditch Company

May 2017 Board Meeting

LOAN DETAILS	
Project Cost:	$2,800,000
CWCB Loan:	$1,085,750
Loan Term and Interest Rate:	30-years @ 1.80%
Funding Source:	Severance Tax Perpetual Base Fund

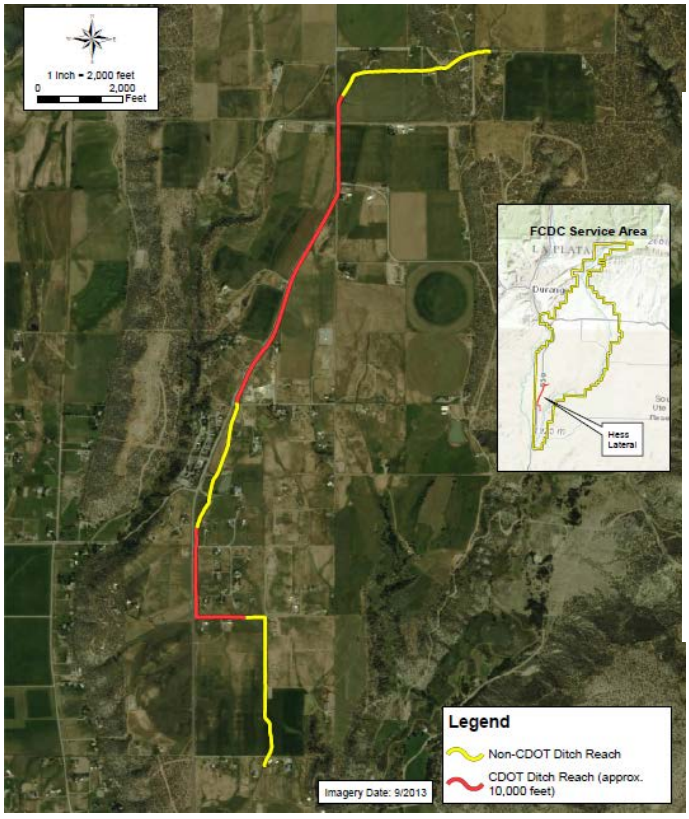
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0%	0%

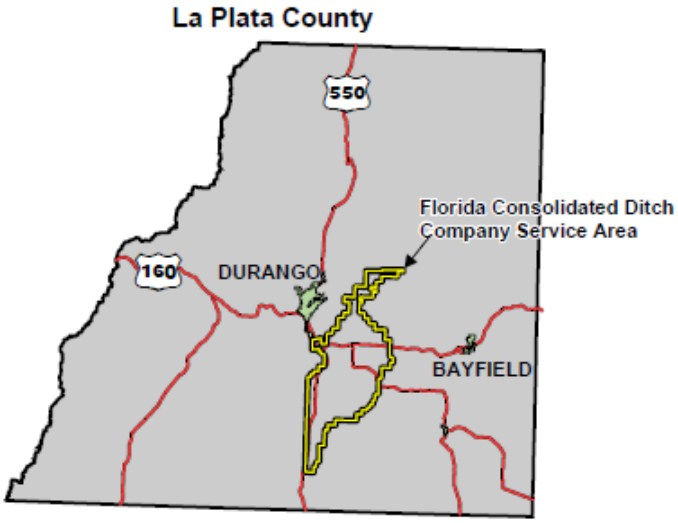
PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Diversion:	43,000 AF



LOCATION			
County:			La Plata
Water Source:			Animas River
Drainage Basin:			San Juan/Dolores River
Division:	7	*District:*	30

The Hess Lateral, part of the Florida Consolidated Ditch Company water conveyance system, is located 7 miles south of Durango, CO on the Florida Mesa. The lateral serves approximately 67 users irrigating over 1,500 acres of hay and pasture land. The project will replace the open ditch with buried gravity-pressurized pipeline and relocate approx. 21,100 feet of the Hess Lateral due to expansion of HWY 550. CDOT has committed $950,000 to the project. The company also received approval of a $775,000 WSRF grant at the September 2015 meeting. Final design of the project is expected to begin in the fall of 2017 and construction will likely follow one year later.





COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Dry Gulch Reservoir Land Acquisition

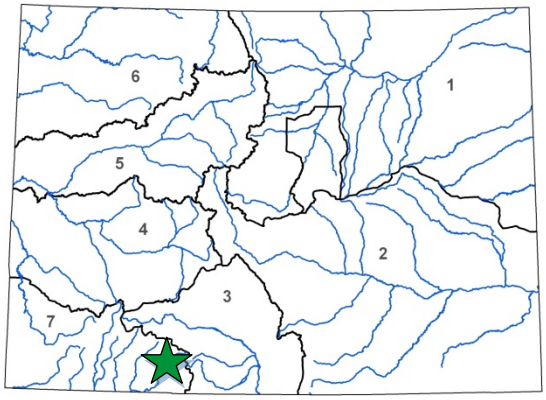
San Juan Water Conservancy District

May 2017 Board Meeting

LOAN DETAILS	
Project Cost:	$2,000,000
CWCB Loan (with Service Fee):	$2,000,000
Loan Term and Interest Rate:	30 Years @ 2.55%
Funding Source:	Construction Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	100% Low - 0% Mid - 0% High	0%

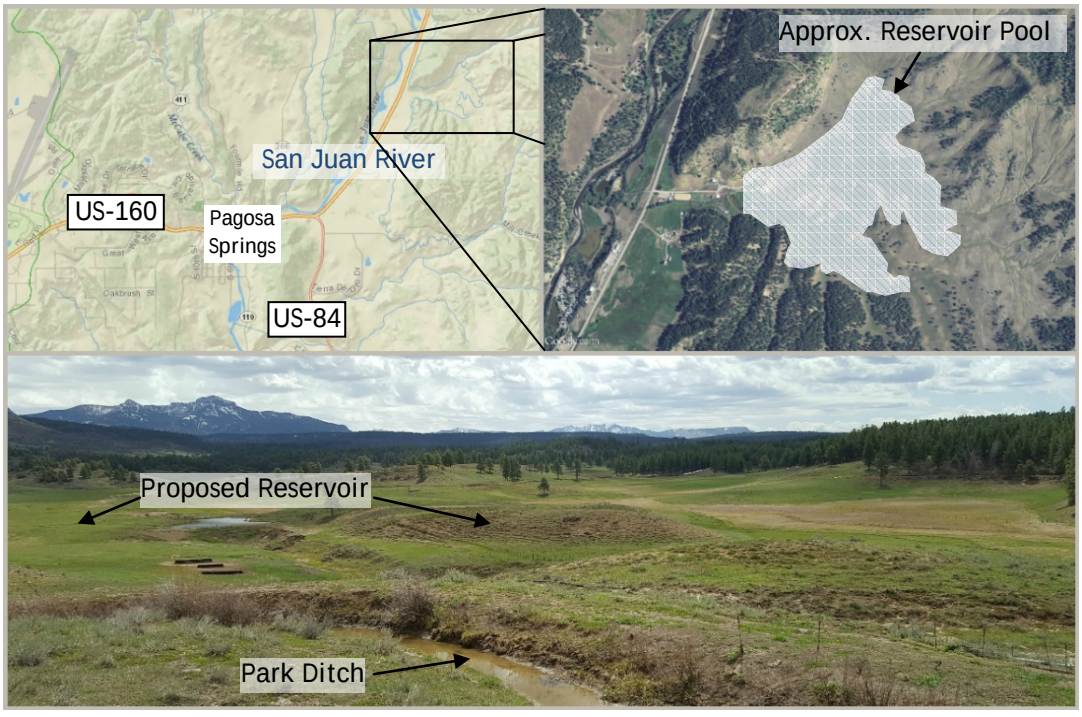
PROJECT DETAILS	
Project Type:	Water Storage Land Acquisition
Average Annual Delivery:	NA



LOCATION			
County:			Archuleta
Water Source:			San Juan River
Drainage Basin:			Southwest
Division:	29	*District:*	7

The District was created in 1987 with a purpose to conserve, maximize, and utilize the water resources of the San Juan River and its tributaries, with the primary function to address future water supply needs within its boundaries. Population projections predict an increase of 25,400 county-wide by 2070, an increase that could produce a water supply gap of 4,300 AF per year.

The District has identified the development of Dry Gulch Reservoir as a top priority project for the region's long-term water supply solution. This reservoir site has been under consideration since the 1960s and has been identified in 1989 and 2003 as a preferred water storage location for diversions from the San Juan River. A previous CWCB loan to the Pagosa Area Water and Sanitation District and a WSRF grant to the San Juan Water Conservancy District provided funding for the purchase of a large portion of the land needed for the proposed Dry Gulch Reservoir. This loan will acquire the remaining land needed for the proposed reservoir. The overall Dry Gulch Reservoir project will be planned in keeping with the objectives outlined in the Colorado Water Plan for new water storage, by not only off-setting the projected water supply gap, but also providing water resources for non-consumptive uses to enhance environmental and recreational opportunities of state and local economic benefit. Planning and permitting for the reservoir is expected to take up to 10 years. This loan will not provide funds for reservoir construction.



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

Water Source: Arkansas – Fry-Ark Project

Total Project Cost: $300,000,000

Funding Sources: CWCB, Federal

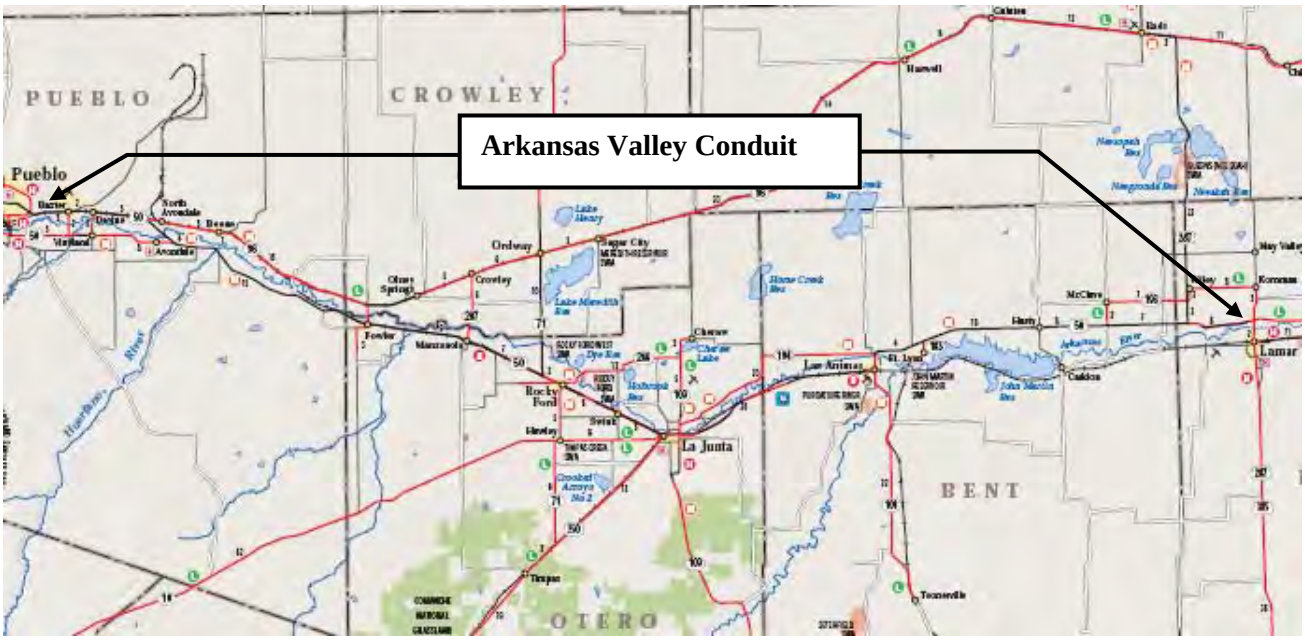
Type of Borrower: Municipal/Low

Aver. Delivery: 6,555 AF (2005 demand)

CWCB Construction Fund Loan: $60,600,000 (incl. 1% loan fee)

Interest Rate: 3.25% **Term:** 30 years

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

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

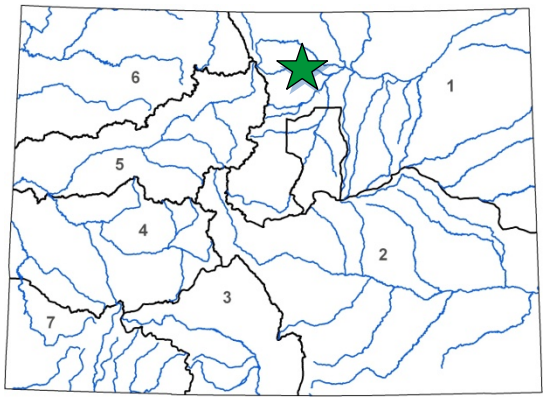
Windy Gap Firming Project

Municipal Subdistrict, Northern Colorado Water Conservancy District

Windy Gap Firming Project Water Activity Enterprise

November 2017 Board Meeting

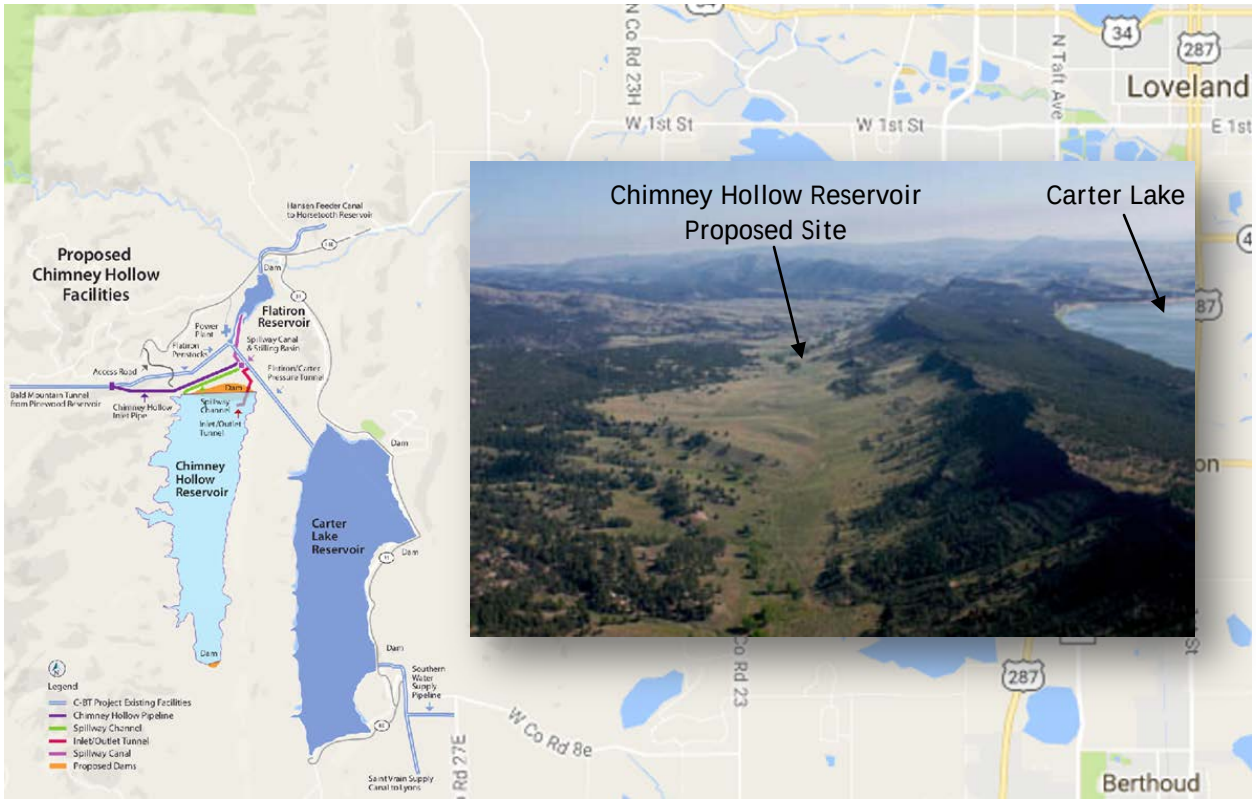
LOAN DETAILS	
Project Cost:	$440,000,000
CWCB Loan (with Service Fee):	$90,000,000
Loan Term and Interest Rate:	30 years @ 3.10%
Funding Source:	Revenue Bonds & Construction Fund Loan
BORROWER TYPE	
Municipal	
PROJECT DETAILS	
Project Type:	New Reservoir
New Storage Capacity:	90,000 AF



LOCATION			
County:	Larimer, Boulder, Broomfield, Weld		
Water Source:			Colorado River
Drainage Basin:			South Platte
Division:	1	*District:*	2,3,4,5,6

In 1970, six Northern Colorado cities formed the Municipal Subdistrict to plan, finance, and build the Windy Gap project. That project was completed in 1985. The annual delivery of Windy Gap water is not reliable because in dry years the junior water rights may not come into priority, and in wet years, there may not be room in Lake Granby to store Windy Gap water.

In 1999, The Subdistrict formed the Windy Gap Firming Water Activity Enterprise with the purpose of pursuing activities that would lead to firming the yield of Windy Gap water. Participants identified 30,000 AF as a goal for total firm yield. After a review of over 170 alternatives, the Bureau of Reclamation and project participants identified the construction of a 90,000 AF Chimney Hollow Reservoir as the preferred alternative. This Project will consist of the construction of Chimney Hollow Reservoir and associated pipelines to deliver water from the existing C-BT infrastructure, as well as environmental mitigation and enhancements. Construction is anticipated to begin in fall of 2018 and be complete in 2022.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Diversion Structure Rehabilitation

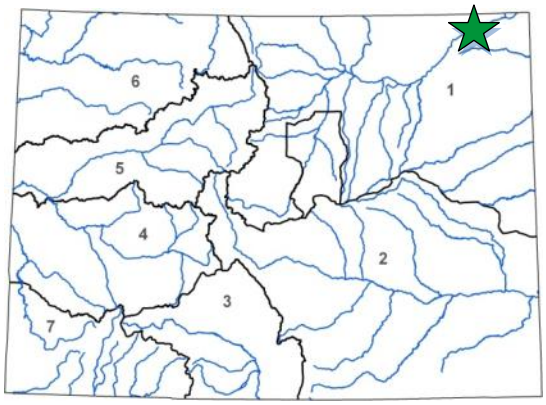
Julesburg Irrigation District

May 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$3,308,000
CWCB Loan (with Service Fee):	$3,341,080
Loan Term and Interest Rate:	30 Years @ 1.70%
Funding Source:	Severance Tax PBF

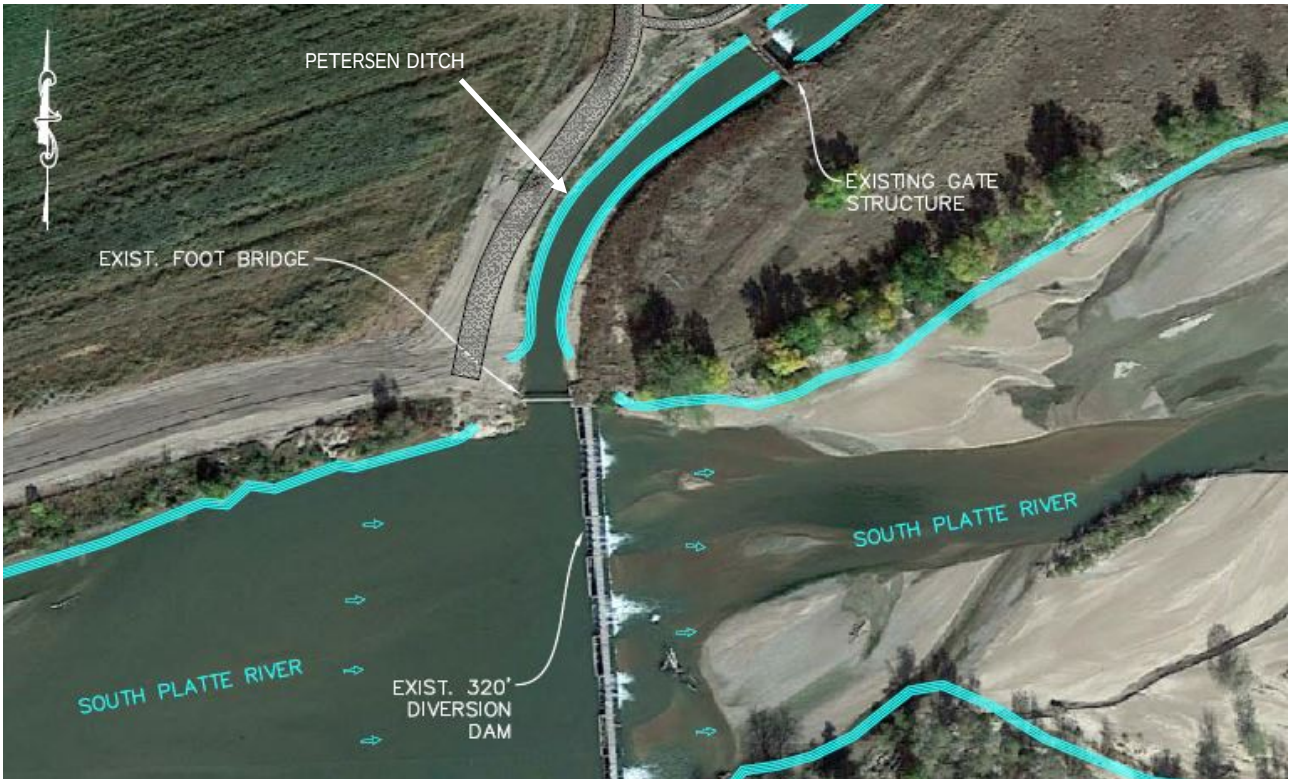
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
98%	1% Low - 0% Mid -0% High	1%

PROJECT DETAILS	
Project Type:	Diversion Structure Rehabilitation
Average Annual Diversions:	54,421 AF



LOCATION			
County:			Sedgwick
Water Source:			South Platte
Drainage Basin:			South Platte
Division:	1	*District:*	64

The Julesburg Irrigation District (District) operates a South Platte River diversion structure and the Petersen Ditch headgate as well as other ditches and reservoirs for the benefit of the shareholders by providing direct flow irrigation water. The District service area is comprised of approximately 19,129 acres. The District's diversions from the South Platte River through the Petersen Ditch are normally 164 cubic feet per second from the South Platte River providing water to 8,925 acres. The diversion of water is accomplished with a concrete diversion dam across the South Platte and a ditch regulating head gate structure. The 1956 river diversion dam is approximately 320 feet wide and the ditch head gate structure is approximately 30 feet wide. The District wants to rebuild the diversion dam and ditch head gate in order to continue water deliveries to the shareholders and provide and improve the structures' operational safety. Construction is anticipated during the 2018-2019 winter months prior to the 2019 irrigation season.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Seeley Reservoir Dredging

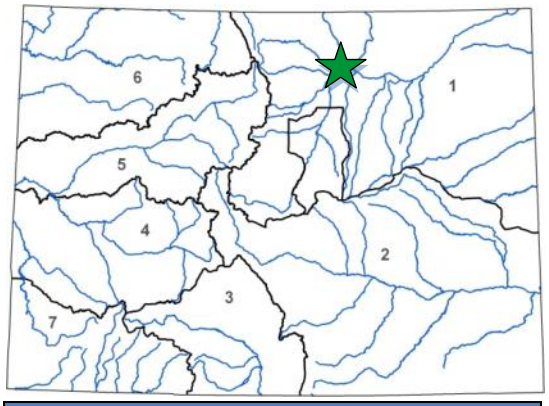
Ogilvy Irrigating and Land Company

May 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$3,667,740
CWCB Loan (with Service Fee):	$2,274,520
Loan Term and Interest Rate:	30 Years @ 1.70%
Funding Source:	Severance Tax PBF & Water Plan Grant

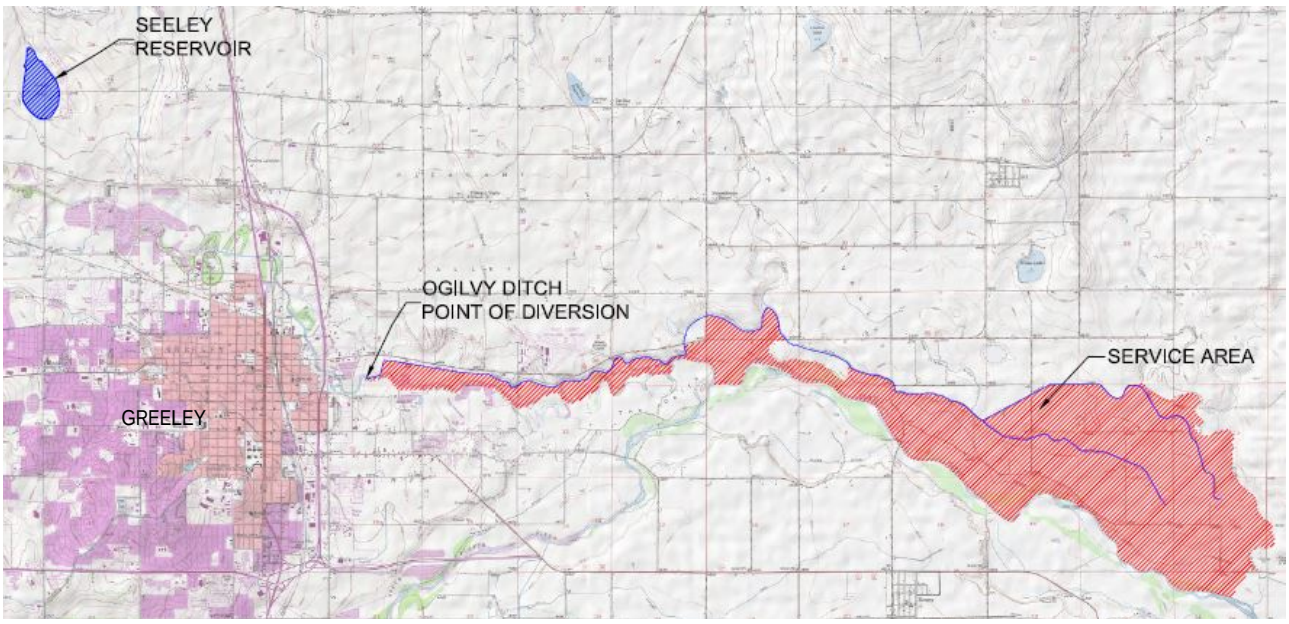
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
95%	5% Mid	0%

PROJECT DETAILS	
Project Type:	Reservoir Rehabilitation
Average Annual Diversions:	14,778 AF
Recovered Storage:	356 AF



LOCATION			
County:			Weld
Water Source:			Cache La Poudre
Drainage Basin:			South Platte
Division:	1	*District:*	3

The Ogilvy Irrigating and Land Company is a Colorado Mutual Ditch that owns and operates Seeley Reservoir and the Ogilvy Ditch. The Ogilvy Ditch system encompasses 3,600 acres from a Cache la Poudre River diversion, located on the east edge of Greeley to farms east of Kersey. Seeley Reservoir has a decreed capacity of 1,543 acre-feet. The proposed project will re-establish the physical capacity to this decreed volume. The water stored in the reservoir is used to provide supplemental irrigation supplies to the Ogilvy Ditch service area. Stored water is also used to provide augmentation water for the Ogilvy Augmentation Company, whose members own wells that provide irrigation water within the same service area. This project will recover 356 acre-feet of reservoir storage space that has been lost to sedimentation deposition over many years. New water storage sites have been considered, but would be limited to about 100 acre-feet of capacity. Sedimentation of Seeley Reservoir resulted largely because of the high inflows running through the steep inlet channel above the reservoir. The Colorado Department of Transportation completed major improvements to the Seeley Reservoir inlet channel at State Highway 392 in 2011 that substantially mitigated the conditions causing the erosion within the inlet ditch generating sediment at Seeley Reservoir. It is expected that the recurrence of sedimentation will be limited. Construction is scheduled for the fall of 2018. Funding will come from a Water Plan Grant for $1,415,740 and a CWCB loan.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Walker Recharge

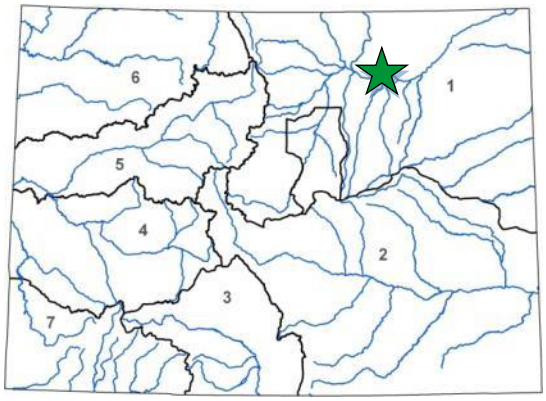
Central Colorado Water Conservancy District

September 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$18,164,000
CWCB Loan (with Service Fee):	$2,272,500
Loan Term and Interest Rate:	30 years @ 1.75%
Funding Source:	Severance Tax PBF

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0 % Low - 0% Mid -0% High	0%

PROJECT DETAILS	
Project Type:	Augmentation Facility
Annual Yield:	2,100 AF

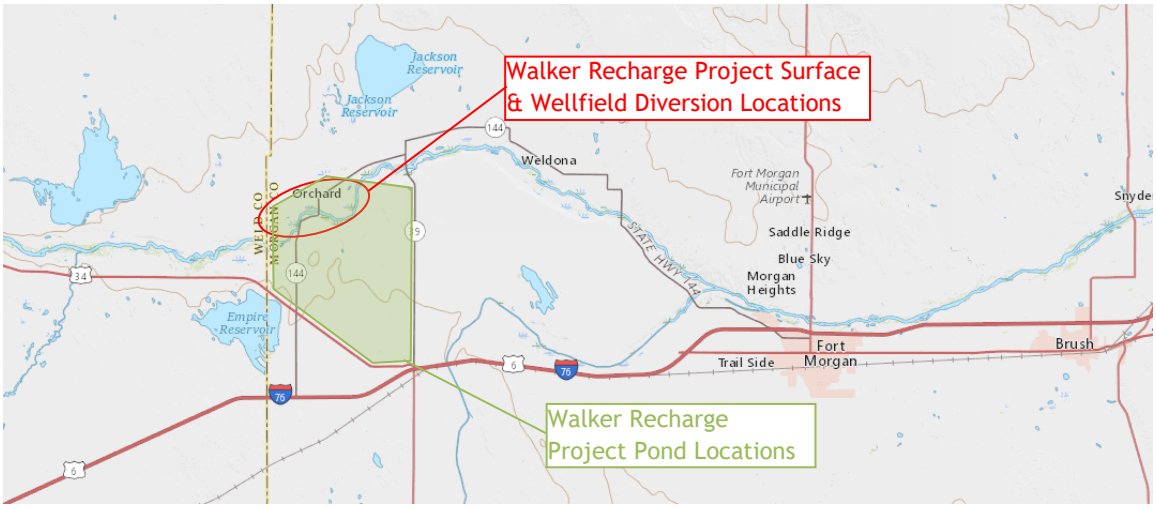


LOCATION			
County:			Weld & Morgan
Water Source:			South Platte River
Drainage Basin:			South Platte
Division:	1	*District:*	1

The Central Colorado Water Conservancy District (CCWCD) was formed in 1965 to develop, manage, and protect water resources in northeast Colorado. CCWCD includes approximately 210,000 acres of irrigated agricultural lands. CCWCD has two subdistrict each with its own augmentation plan: The Groundwater Management Subdistrict (GMS), formed in 1973, and the Well Augmentation Subdistrict (WAS), formed in 2004. CCWCD, GMS, & WAS have partnered together to build and the Walker Recharge Project.

The Walker Recharge Project will be located in Weld and Morgan Counties between the towns of Orchard and Wiggins. CCWCD, GMS, & WAS jointly filed an application for water rights and for approval of plan of augmentation for the Walker Recharge site (Division 1 Water Court Case No. 16CW3202) on December 30, 2016. The court application includes surface water rights for three diversions, groundwater rights for four well fields and one existing well, numerous recharge structures, and a plan for augmentation. The plan for augmentation would allow diversions from the included water rights as well as other water rights owned or otherwise controlled by CCWCD, GMS, or WAS to be delivered to the recharge ponds to generate accretions to the South Platte River.

Construction is expected to generally occur in two phases, each taking three to four years. When finished, recharge credits will be used by GMS and WAS to increase the well pumping quota issued under the respective augmentation plans. CCWCD will use its recharge credits to increase the amount of water leased to GMS, WAS, and other water users within the CCWCD boundaries.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Walker Recharge

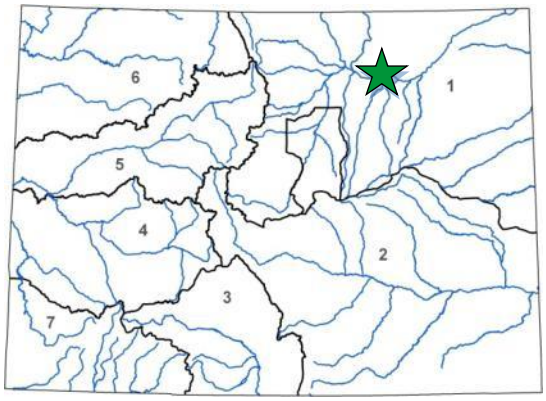
Groundwater Management Subdistrict of Central Colorado Water Conservancy District

September 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$18,164,000
CWCB Loan (with Service Fee):	$9,847,500
Loan Term and Interest Rate:	30 years @ 1.75%
Funding Source:	Severance Tax PBF

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0 % Low - 0% Mid -0% High	0%

PROJECT DETAILS	
Project Type:	Augmentation Facility
Annual Yield:	9,100 AF



LOCATION			
County:			Weld & Morgan
Water Source:			South Platte River
Drainage Basin:			South Platte
Division:	1	*District:*	1

The Central Colorado Water Conservancy District (CCWCD) was formed in 1965 to develop, manage, and protect water resources in northeast Colorado. CCWCD includes approximately 210,000 acres of irrigated agricultural lands. CCWCD has two subdistrict each with its own augmentation plan: The Groundwater Management Subdistrict (GMS), formed in 1973, and the Well Augmentation Subdistrict (WAS), formed in 2004. CCWCD, GMS, & WAS have partnered together to build and the Walker Recharge Project.

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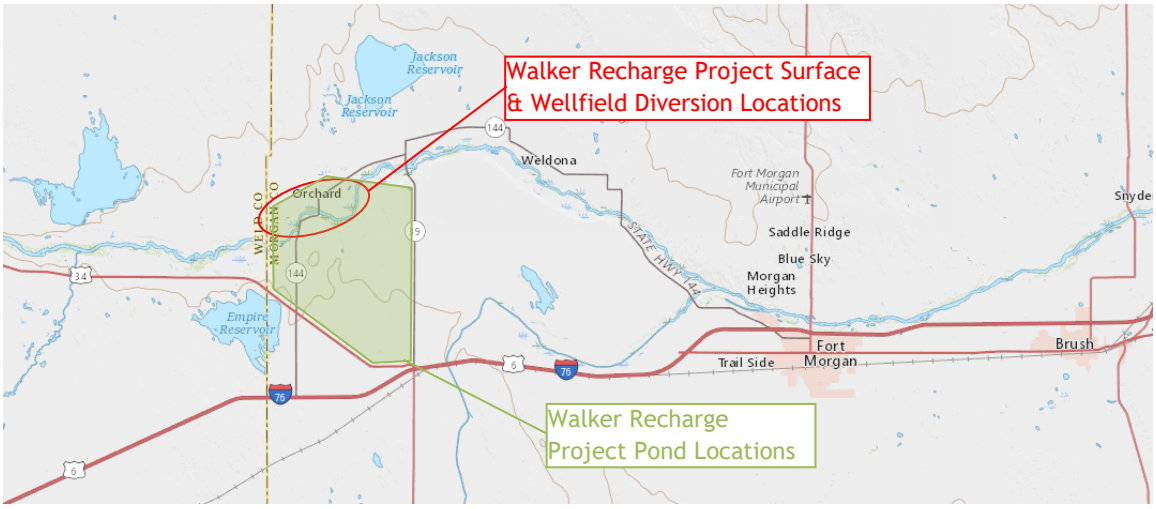


COLORADO
Colorado Water Conservation Board
Department of Natural Resources

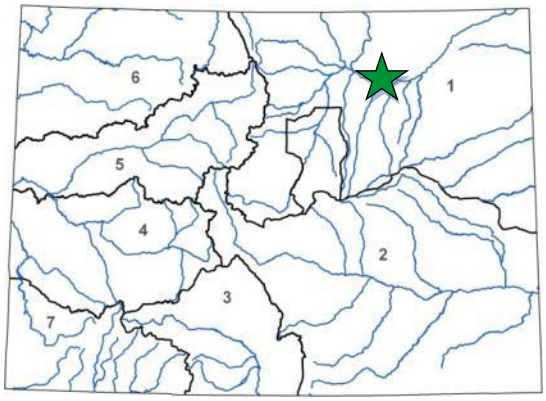
Walker Recharge

Well Augmentation Subdistrict of
Central Colorado Water Conservancy District
September 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$18,164,000
CWCB Loan (with Service Fee):	$3,030,000
Loan Term and Interest Rate:	30 years @ 1.75%
Funding Source:	Severance Tax PBF

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0 % Low - 0% Mid -0% High	0%

PROJECT DETAILS	
Project Type:	Augmentation Facility
Annual Yield:	2,800 AF

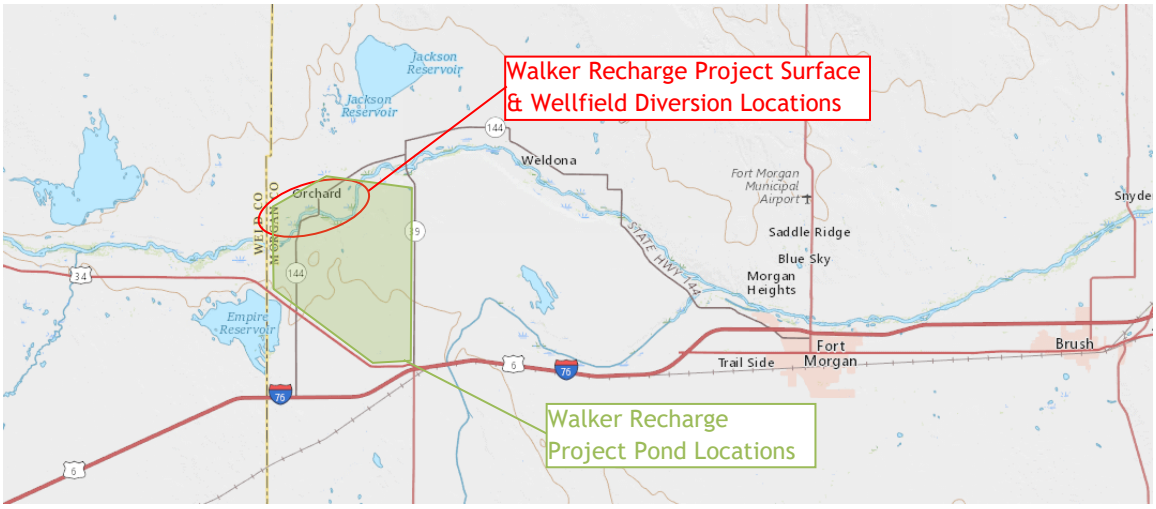


LOCATION			
County:			Weld & Morgan
Water Source:			South Platte River
Drainage Basin:			South Platte
Division:	1	*District:*	1

The Central Colorado Water Conservancy District (CCWCD) was formed in 1965 to develop, manage, and protect water resources in northeast Colorado. CCWCD includes approximately 210,000 acres of irrigated agricultural lands. CCWCD has two subdistrict each with its own augmentation plan: The Groundwater Management Subdistrict (GMS), formed in 1973, and the Well Augmentation Subdistrict (WAS), formed in 2004. CCWCD, GMS, & WAS have partnered together to build and the Walker Recharge Project.

The Walker Recharge Project will be located in Weld and Morgan Counties between the towns of Orchard and Wiggins. CCWCD, GMS, & WAS jointly filed an application for water rights and for approval of plan of augmentation for the Walker Recharge site (Division 1 Water Court Case No. 16CW3202) on December 30, 2016. The court application includes surface water rights for three diversions, groundwater rights for four well fields and one existing well, numerous recharge structures, and a plan for augmentation. The plan for augmentation would allow diversions from the included water rights as well as other water rights owned or otherwise controlled by CCWCD, GMS, or WAS to be delivered to the recharge ponds to generate accretions to the South Platte River.

Construction is expected to generally occur in two phases, each taking three to four years. When finished, recharge credits will be used by GMS and WAS to increase the well pumping quota issued under the respective augmentation plans. CCWCD will use its recharge credits to increase the amount of water leased to GMS, WAS, and other water users within the CCWCD boundaries.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Automatic Meter Implementation

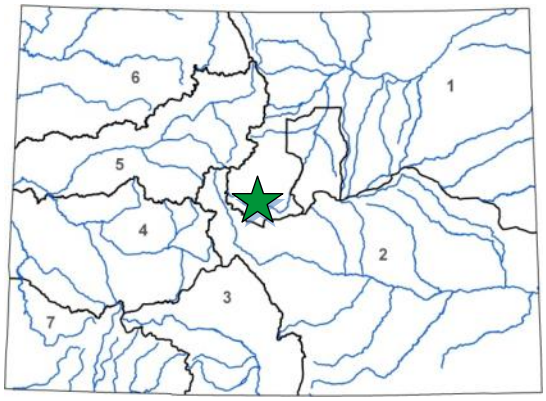
Arabian Acres Metro District

September 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$400,000
CWCB Loan (with Service Fee):	$404,000
Loan Term and Interest Rate:	10 Years @ 1.85%
Funding Source:	Construction Fund

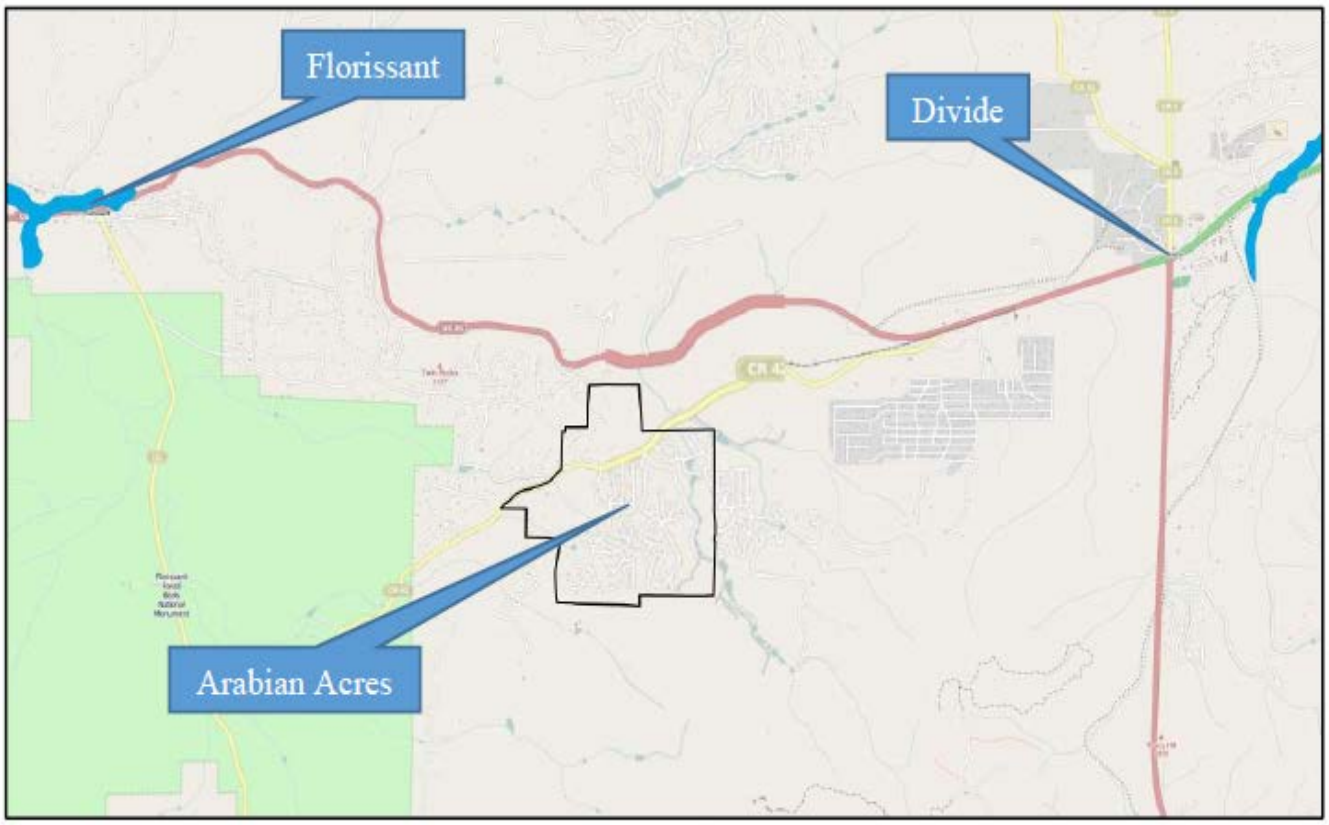
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	100% Low - 0% Mid -0% High	0%

PROJECT DETAILS	
Project Type:	Water Meter Replacement
Average Annual Diversions:	17 AF



LOCATION			
County:			Teller
Water Source:			Groundwater
Drainage Basin:			South Platte
Division:	*1*	*District:*	*23*

The Arabian Acres Metropolitan District (District) provides potable water service to the Arabian Acres subdivision and Trout Haven Estates in Teller County. The District currently serves 145 residential and 5 commercial taps for a population of approximately 392 people. The District has had trouble providing reliable service with an approximately 40-year-old, poorly constructed distribution system that leaks considerably and lacks adequate flow measurement of potable water delivery. Through this Automatic Meter Implementation (Project) the District intends to install an automatic meter reading (AMR) system, new meter pits, installation hardware, a drive-by meter read base station, and software. This Project will help improve the District's operational efficiency by upgrading its water system. The meters will help accurately measure the amount of water usage and help quantify the system water loss. In addition to the loan, the District is also seeking a DOLA Energy Impact Assistance Fund Grant for 50% of the project cost.



WATER PROJECT CONSTRUCTION LOAN PROGRAM
LOAN REPAYMENT DELINQUENCY REPORT
LOAN FINANCIAL ACTIVITY REPORT
January 2019

LOAN REPAYMENT DELINQUENCY

Loan Repayments received relative to the Water Project Construction Loan Program have been reviewed for the period covering July 2018 through December 2018. The effective due date of the payment is inclusive of the Board's current 60 day late policy. Hence, the date the payment was received was compared to the last day allowable prior to the payment being considered late.

Repayments due for the first six months of Fiscal Year 2019 totaled 170. No loan payments were late during this period that have not been addressed in prior reports. Two Rivers Water Company has paid their full 2018 annual payment including a 5% late fee as of October 2018 and is now in compliance.

LOAN FINANCIAL ACTIVITY

Loan Financial Activity relative to the Water Project Construction Fund and Severance Tax Perpetual Base Fund for Fiscal Year 2019 is summarized as follows: Funds received relative to loans in repayment totaled $16M for this year. Funds disbursed relative to new project loans totaled $43.8M for this year. Net activity resulted in $27.8M disbursed by the CWCB Construction Fund and the Severance Tax Perpetual Base Fund (STPBF) over the total received.

Further breakdown is summarized as follows: The Construction Fund portion consists of $9.7M in receivables and $3.4M in disbursements for a total net activity of $6.3M received over disbursed. The STPBF consists of $6.4M in receivables and $40.4M in disbursements for a total net activity of $34M disbursed over received.

COLORADO WATER CONSERVATION BOARD

FINANCIAL ACTIVITY REPORT FOR FISCAL YEAR 2019

CONSTRUCTION FUND

Period	Principal	Interest	Total	Disbursements	Net Activity
July 2018	$519,412	$91,022	$610,435	$-	$610,435
August 2018	$1,991,498	$332,868	$2,324,365	$327,219	$1,997,146
September 2018	$605,071	$1,233,446	$1,838,517	$132,471	$1,706,047
October 2018	$581,715	$282,065	$863,780	$439,324	$424,456
November 2018	$1,864,102	$736,156	$2,600,258	$680,128	$1,920,129
December 2018	$892,473	$581,738	$1,474,212	$1,839,365	$(365,153)
January 2019	$-	$-	$-	$-	$-
February 2019	$-	$-	$-	$-	$-
March 2019	$-	$-	$-	$-	$-
April 2019	$-	$-	$-	$-	$-
May 2019	$-	$-	$-	$-	$-
June 2019	$-	$-	$-	$-	$-
FY 2019 Totals	$6,454,271	$3,257,296	$9,711,567	$3,418,508	$6,293,059

SEVERANCE TAX TRUST FUND PERPETUAL BASE ACCOUNT

Period	Principal	Interest	Total	Disbursements	Net Activity
July 2018	$14,077	$10,745	$24,822	$3,032,872	$(3,008,050)
August 2018	$3,084,903	$883,026	$3,967,929	$4,060,124	$(92,195)
September 2018	$93,782	$22,836	$116,618	$5,915,536	$(5,798,918)
October 2018	$639,622	$624,190	$1,263,811	$4,109,500	$(2,845,689)
November 2018	$192,427	$109,134	$301,561	$17,202,375	$(16,900,814)
December 2018	$501,149	$181,292	$682,441	$6,119,677	$(5,437,236)
January 2019	$-	$-	$-	$-	$-
February 2019	$-	$-	$-	$-	$-
March 2019	$-	$-	$-	$-	$-
April 2019	$-	$-	$-	$-	$-
May 2019	$-	$-	$-	$-	$-
June 2019	$-	$-	$-	$-	$-
FY 2019 Totals	$4,525,958	$1,831,223	$6,357,181	$40,440,084	$(34,082,903)
GRAND TOTALS	$10,980,229	$5,088,519	$16,068,748	$43,858,592	$(27,789,844)

COLORADO
Colorado Water
Conservation Board
Department of Natural Resources

1313 Sherman Street, Room 718
Denver, CO 80203

January 7, 2019

Members of the 2019 Colorado General Assembly

Re: Small Project Loans Approved in 2018
Construction Fund and Severance Tax Perpetual Base Fund

Pursuant to C.R.S. § 37-60-122(b), the Colorado Water Conservation Board (CWCB) is submitting the attached written determination of the basis for all loans under $10,000,000 authorized during the 2018 calendar year. The report will be presented to the CWCB at the January 28, 2019 Board meeting.

The report will be posted on the web at www.leg.colorado.gov and on the CWCB website www.cwcb.state.co.us. A copy of the report has been submitted to the Legislative Library, Room 029 of the State Capitol Building. Paper copies of the Report can be made available upon request.

If you have questions or need additional copies of the report, please contact Mr. Doug Vilsack, Legislative Liason, at 303-866-3311 x8664.

Sincerely,

Rebecca Mitchell

Rebecca Mitchell, Director
Colorado Water Conservation Board

PREFACE

Pursuant to Section 37-60-122(b) of the C.R.S. the Colorado Water Conservation Board (CWCB) is required to submit a report by January 15th of each year to the Colorado General Assembly describing the basis of all Construction Fund and Severance Tax Perpetual Base Fund loans authorized by the CWCB under $10,000,000. This report fulfills the CWCB reporting obligations for those "Small Project" loans for Calendar Year 2018.

The report includes a summary spreadsheet identifying each loan approval date, the project sponsor or borrower, the project name, the loan amount, and the name of the County and River Basin where the project is located. There were 12 new loan projects under $10,000,000 approved by the CWCB in Calendar Year 2018. The total loan value is approximately $14.9 million.

Included in the report is a loan project Data Sheet for each new loan project. The Data Sheet includes a project description, project location map, and other pertinent loan and project information.

January 7, 2019

Colorado Water Conservation Board
Small Project Loans
For Calendar Year 2018

	Date Approved	Borrower	Project	Amount Approved	Funding Source*	County	Basin
1	01/22/18	Central Colorado Water Conservancy District	Shores Lakes Pond C Infrastructure Improvement	$ 2,367,440	CF	Weld	South Platte
2	01/22/18	Bessemer Irrigating Ditch Company	Bessemer Ditch Landslide Stabilization and Ditch Lining	$ 909,000	CF	Pueblo	Arkansas River
3	01/22/18	Lupton Bottom Ditch Company	Lupton Bottom Diversion Structure Repair	$ 606,000	CF	Weld	South Platte
4	01/22/18	Colorado Parks and Wildlife	Chatfield Reallocation Project	$ 1,796,120	CF	Douglas	South Platte
5	03/21/18	Trinchera Irrigation Company	Dam Outlet Rehabilitation Phase III	$ 440,360	ST	Costilla	Rio Grande
6	05/23/18	Julesburg Irrigation District	Diversion Structure Replacement	$ 3,341,080	ST	Sedgwick	South Platte
7	05/23/18	Ogilvy Irrigating and Land Company	Seeley Reservoir Dredging	$ 2,274,520	ST	Weld	South Platte
8	05/23/18	San Luis Valley Canal Company	San Luis Valley Canal Headgate Construction	$ 303,000	ST	Rio Grande	Rio Grande
9	07/18/18	Chicott Ditch Company	Chilcott Augmentation Station	$ 505,000	CF	El Paso	Arkansas River
10	07/18/18	Missouri Heights Mountain Meadow Irrigation Company	Ditch Piping Phase B Project	$ 404,000	CF	Garfield	Colorado River
11	07/18/18	Roxborough Water and Sanitation District	Ravenna Development Interconnect Project	$ 1,584,690	CF	Douglas	South Platte
12	09/20/18	Arabian Acres Metropolitan District	Automatic Meter Implementation	$ 404,000	CF	Teller	South Platte
		Total Amount Approved in 2018		**$ 14,935,210**			

*Indicates whether the funding source is from Construction Fund (CF) or Severence Tax Fund (ST)

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Shores Lakes Ponds C Infrastructure Improvement

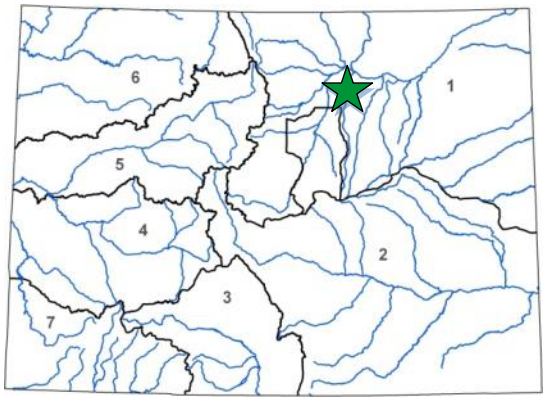
Central Colorado Water Conservancy District

January 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$3,430,000
CWCB Loan (with Service Fee):	$2,367,440
Loan Term and Interest Rate:	30 years @ 1.65%
Funding Source:	Construction Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0 % Low - 0% Mid -0% High	0%

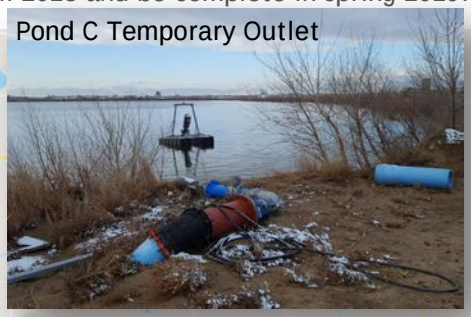
PROJECT DETAILS	
Project Type:	Reservoir Rehabilitation
Storage Maintained:	4,500 AF



LOCATION			
County:			Weld
Water Source:			South Platte River
Drainage Basin:			South Platte
Division:	1	*District:*	2

The Well Augmentation Subdistrict (WAS) was formed in 2004 to develop a permanent augmentation plan for well owners who were previously members of the Groundwater Appropriators of the South Platte (GASP), and covers land in Adams, Weld, and Morgan counties. There are currently 275 wells contracted for coverage in the WAS Augmentation Plan, covering 78 square miles, for a total of 15,250 AF. WAS issues an annual pumping quota to its member wells based on WAS overall augmentation supplies. The first seven years the quota was set to 0%, but in recent years the quota has ranged from 35%-60%.

The Shores Lakes is a gravel pit complex located near Firestone in Weld County and consists of four lined cells (Ponds A, B, C, D), which are interconnected via pipelines. Shores Lakes has all planned infrastructure installed except Pond C's inlet and outlet structures. This Project will install the inlet and outlet infrastructure for Pond C, thereby allowing WAS to efficiently store and release water under its augmentation plan. Construction is anticipated to being in fall 2018 and be complete in spring 2019.


Pond C Temporary Outlet

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Landslide Stabilization and Ditch Lining Project

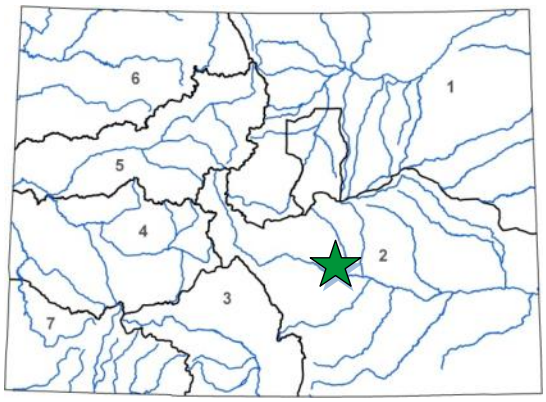
Bessemer Irrigation Ditch Company

January 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$900,000
CWCB Loan (with Service Fee):	$909,000
Loan Term and Interest Rate:	20 years @ 1.65%
Funding Source:	Construction Fund

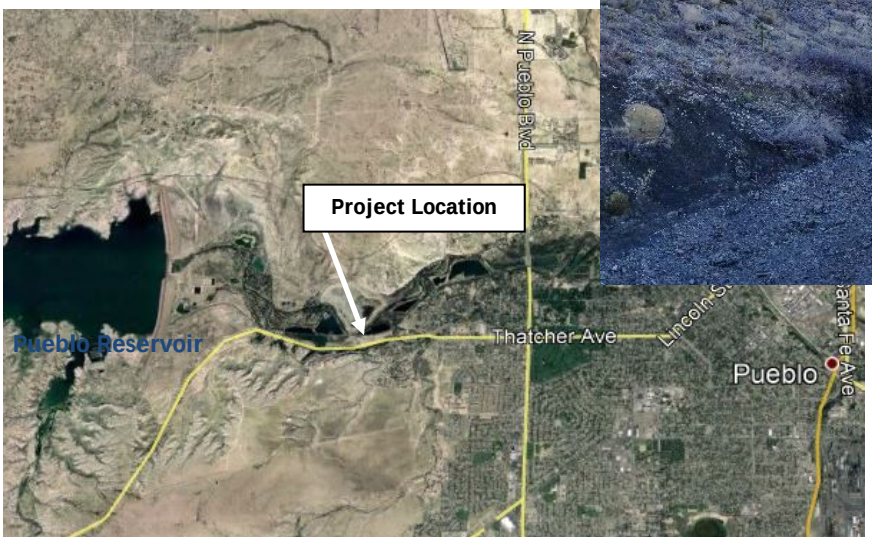
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
62%	38% Low - 0% Mid -0% High	0%

PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Diversions:	71,600 AF



LOCATION			
County:			Pueblo
Water Source:			Arkansas River
Drainage Basin:			Arkansas
Division:	2	*District:*	14

The Bessemer Ditch Company was incorporated in 1888 and construction of the ditch began in 1889. It serves nearly 20,000 irrigated acres in Pueblo County and provides water for municipal use. In the summer of 2017, land along limestone bluffs, approximately 2 miles east of Pueblo Dam, started sliding away from the Bessemer Ditch canal. The landslide area is approximately 200 feet wide. Stabilization and corrective work will occur in two stages; mechanical stabilization and ditch lining. Mechanical stabilization of the slide area will protect the canal and provide width for access and maintenance. The second stage of work includes synthetic liner installation, extending upstream and downstream from the slide area 1200 lineal feet to control canal seepage. Construction is expected to begin in January 2018.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Diversion Structure Repair

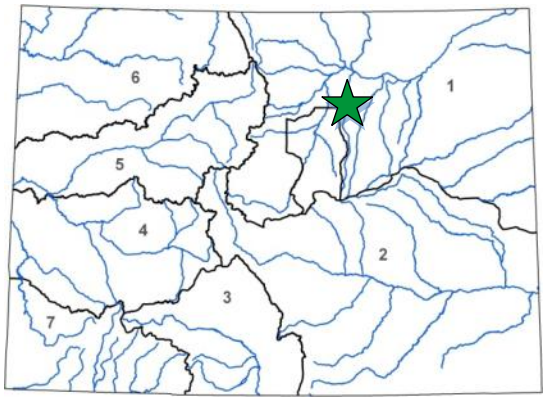
Lupton Bottom Ditch Company

January 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$676,000
CWCB Loan (with Service Fee):	$606,000
Loan Term and Interest Rate:	10 years @ 1.6%
Funding Source:	Construction Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
47.2%	0 % Low – 46.4% Mid -0% High	6.4%

PROJECT DETAILS	
Project Type:	Diversion Structure Rehabilitation
Average Annual Diversions:	19,097 AF



LOCATION			
County:			Weld
Water Source:			South Platte River
Drainage Basin:			South Platte
Division:	1	*District:*	2

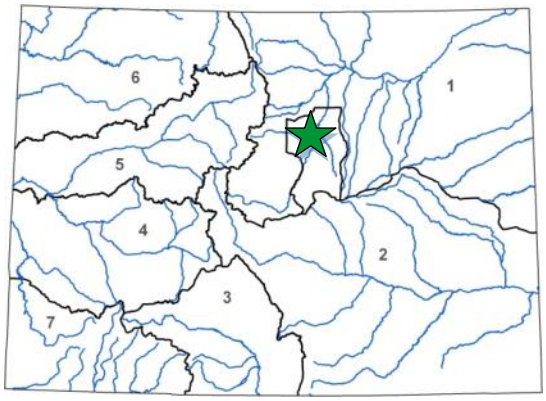
The Lupton Bottom Ditch Company diverts water from the South Platte River near Wattenberg in Weld County. The existing check dam was built in 1949 and the gates were replaced in 2001. Damage to the structure began when high river flows overtopped the rock dam and scoured a large hole on the downstream side and subsequently extended that scour into the structure. The structure was initially damaged during the September 2013 flooding and further damaged in subsequent high river flows. The proposed repair work will be completed in a two-stage process due to the requirement for construction to occur during low flow conditions within the river. During the first stage, stabilization and installation of upstream sheet piling followed by construction of a concrete apron is planned. The downstream side of the structure will be stabilized with grouted boulders. The second stage includes rebuilding the rock dam. Construction is scheduled for Winter/Spring of 2018.

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Colorado Parks and Wildlife
Chatfield Reallocation Project
January 2018 Board Meeting

(Loan Increase)

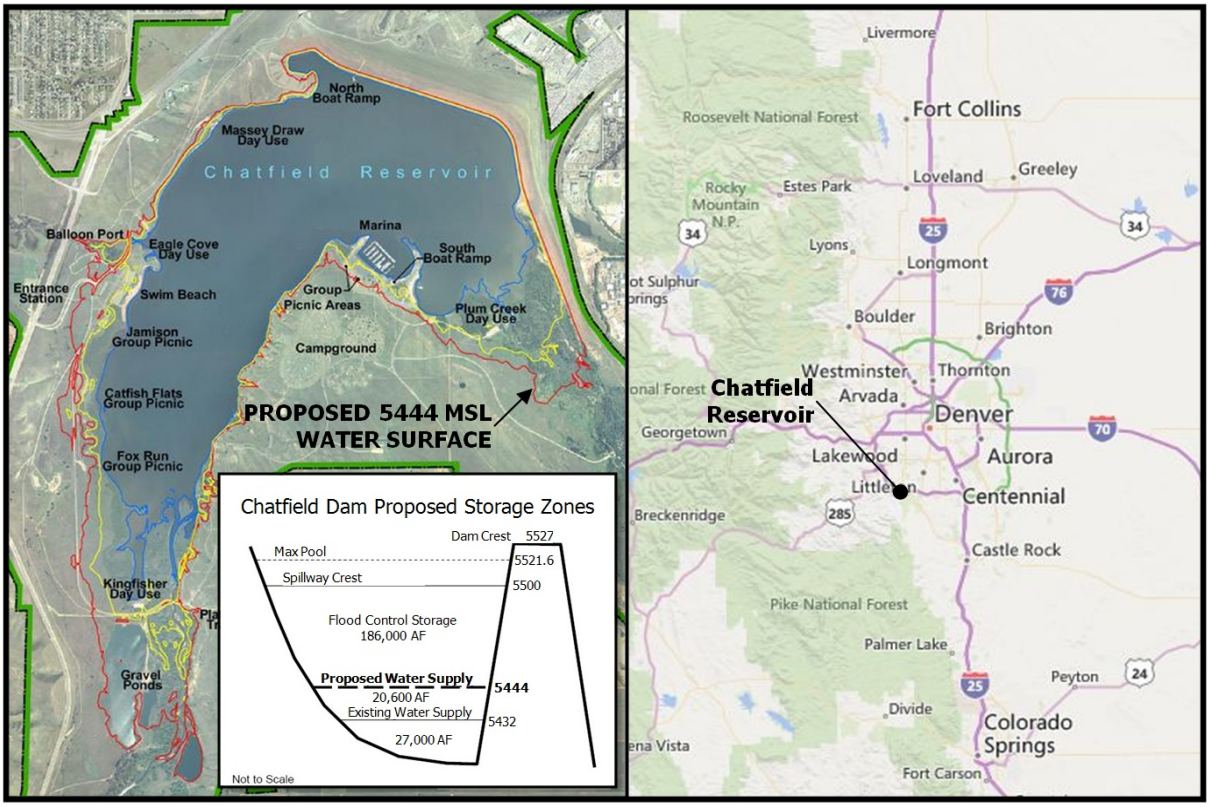
LOAN DETAILS	
Project Cost:	$8,000,970
CWCB Loan:	$8,000,970
Loan Term and Interest Rate:	30 years @ 0%
Funding Source:	Construction Fund
BORROWER TYPE	
State Government – DNR Agency	
PROJECT DETAILS	
Project Type:	Reservoir Storage
New Storage:	1,000 AF



LOCATION			
County:			Douglas
Water Source:	S. Platte River & Plum Creek		
Drainage Basin:			South Platte
Division:	1	*District:*	2

Colorado Parks and Wildlife (CPW) is working cooperatively with CWCB to arrange for financing related to the Chatfield Reallocation Project. CPW purchased 1,000 AF of Project storage space CWCB was holding within a larger "orphan share" pool.

The US Army Corps of Engineers issued the Project's final Feasibility Report and Environmental Impact Statement (FR/EIS) and the Record of Decision on May 29, 2014. The Selected Alternative recommended in the FR/EIS will provide 20,600 acre-feet of storage in Chatfield between the elevations 5432 and 5444 msl for M&I water supply and other purposes including agriculture, environmental restoration, and recreation and fishery habitat protection and enhancement. Construction cost in October 2015 estimated the overall Reallocation Project to cost to $134 million. An October 2017 cost estimate revised this cost to be $171 million. CPW and CWCB signed an Interagency Agreement (IAA) in 2015 for a loan amount of $6,504,850 based on the October 2015 estimated Project cost. This increase will be executed through a new IAA in the amount of $1,796,120.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Mountain Home Dam Outlet Rehabilitation Phase III

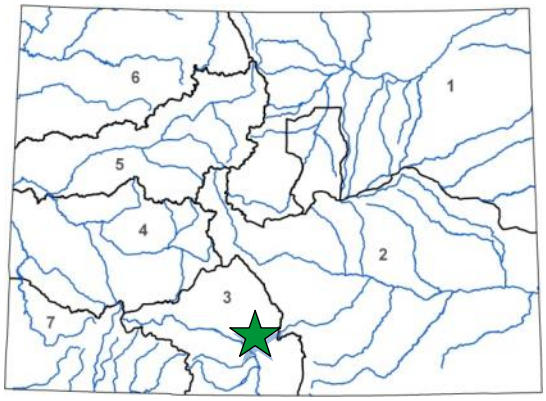
Trinchera Irrigation Company

March 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$987,000
CWCB Loan (with Service Fee):	$440,360
Loan Term and Interest Rate:	30 years @ 1.65%
Funding Source:	Severance Tax PBF & WRSF

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0% Low - 0% Mid - 0% High	0%

PROJECT DETAILS	
Project Type:	Dam Rehabilitation
Average Annual Diversions:	9,000 AF

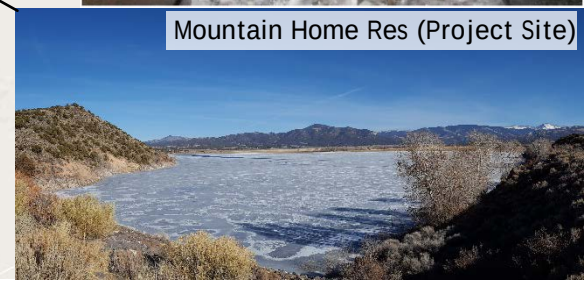


LOCATION			
County:			Costilla
Water Source:			Trinchera Creek
Drainage Basin:			Rio Grande
Division:	2	*District:*	14

Trinchera Irrigation Company is located in Costilla County and owns and operates Mountain Home Reservoir, Smith Reservoir, and approximately 26 miles of canals and 45 miles of laterals. Mountain Home Reservoir (Reservoir) was built in 1908 and has a capacity of 17,964 AF. The Reservoir's primary function is for irrigation but Colorado Parks and Wildlife operates a State Wildlife Area around the Reservoir and maintains a conservation pool of 653 AF in the Reservoir.

The Reservoir's existing outlet works experience significant leakage and since only one of the three valves is operable, does not meet the State Engineer's Office, Dam Safety Branch's emergency drawdown requirements. This Project will replace the original valves with new valves and make other minor repairs to the outlet including a new trash rack, line the outlet tunnel and tower, and replace the gate house. Successful repair of the dam outlet works will prevent a storage restriction, recover approximately 2,000 AF currently lost to leakage, and ensure the long-term integrity and protection of 11,800 acres of irrigated land, as well as the environment, wildlife, and recreation at the State Wildlife Area. Funding for the project will come from the CWCB loan and $513,000 in WSRF grant funds.


Leakage from Outlet Valves


Mountain Home Res (Project Site)

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Diversion Structure Rehabilitation

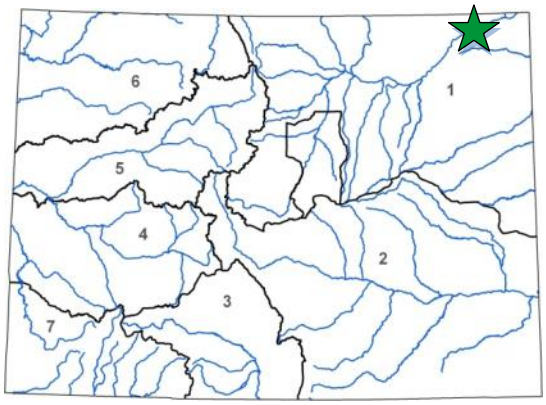
Julesburg Irrigation District

May 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$3,308,000
CWCB Loan (with Service Fee):	$3,341,080
Loan Term and Interest Rate:	30 Years @ 1.70%
Funding Source:	Severance Tax PBF

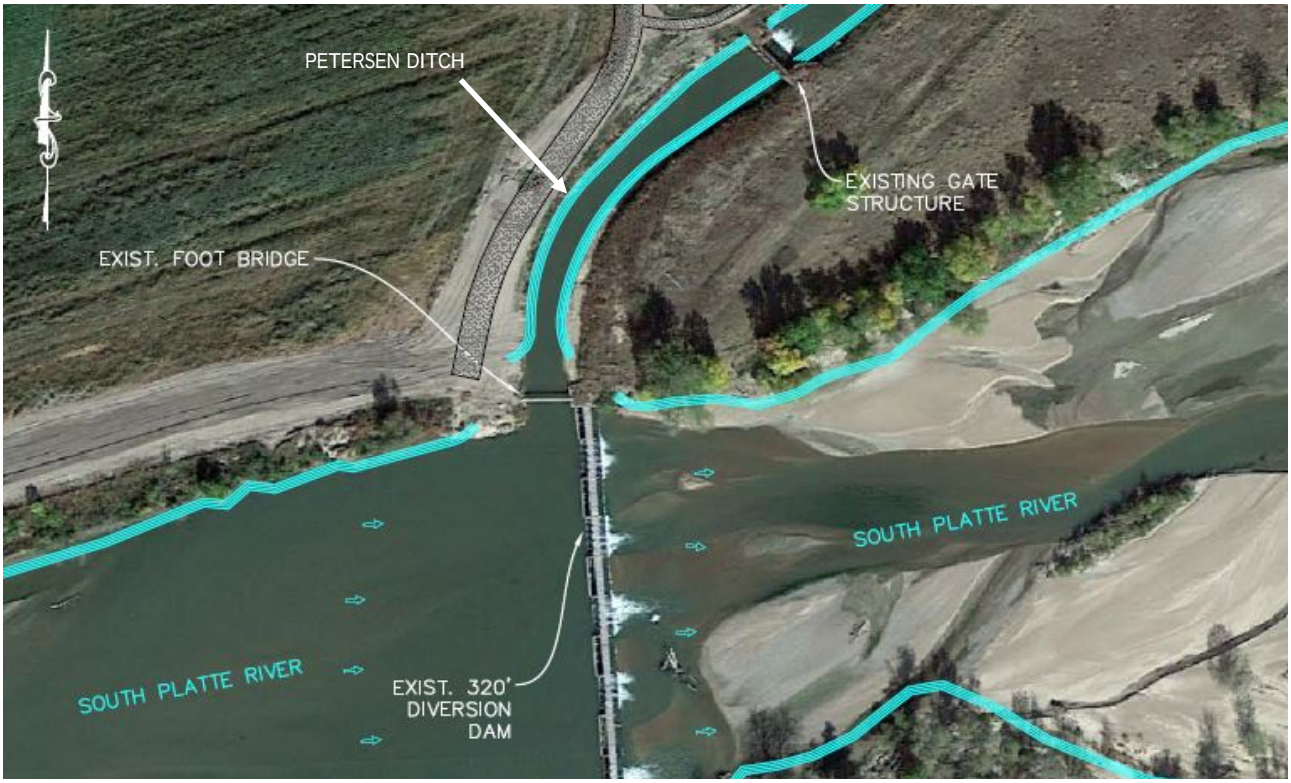
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
98%	1% Low - 0% Mid -0% High	1%

PROJECT DETAILS	
Project Type:	Diversion Structure Rehabilitation
Average Annual Diversions:	54,421 AF



LOCATION			
County:			Sedgwick
Water Source:			South Platte
Drainage Basin:			South Platte
Division:	1	*District:*	64

The Julesburg Irrigation District (District) operates a South Platte River diversion structure and the Petersen Ditch headgate as well as other ditches and reservoirs for the benefit of the shareholders by providing direct flow irrigation water. The District service area is comprised of approximately 19,129 acres. The District's diversions from the South Platte River through the Petersen Ditch are normally 164 cubic feet per second from the South Platte River providing water to 8,925 acres. The diversion of water is accomplished with a concrete diversion dam across the South Platte and a ditch regulating head gate structure. The 1956 river diversion dam is approximately 320 feet wide and the ditch head gate structure is approximately 30 feet wide. The District wants to rebuild the diversion dam and ditch head gate in order to continue water deliveries to the shareholders and provide and improve the structures' operational safety. Construction is anticipated during the 2018-2019 winter months prior to the 2019 irrigation season.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Seeley Reservoir Dredging

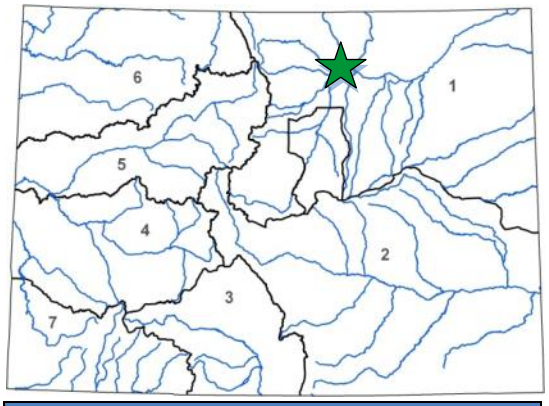
Ogilvy Irrigating and Land Company

May 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$3,667,740
CWCB Loan (with Service Fee):	$2,274,520
Loan Term and Interest Rate:	30 Years @ 1.70%
Funding Source:	Severance Tax PBF & Water Plan Grant

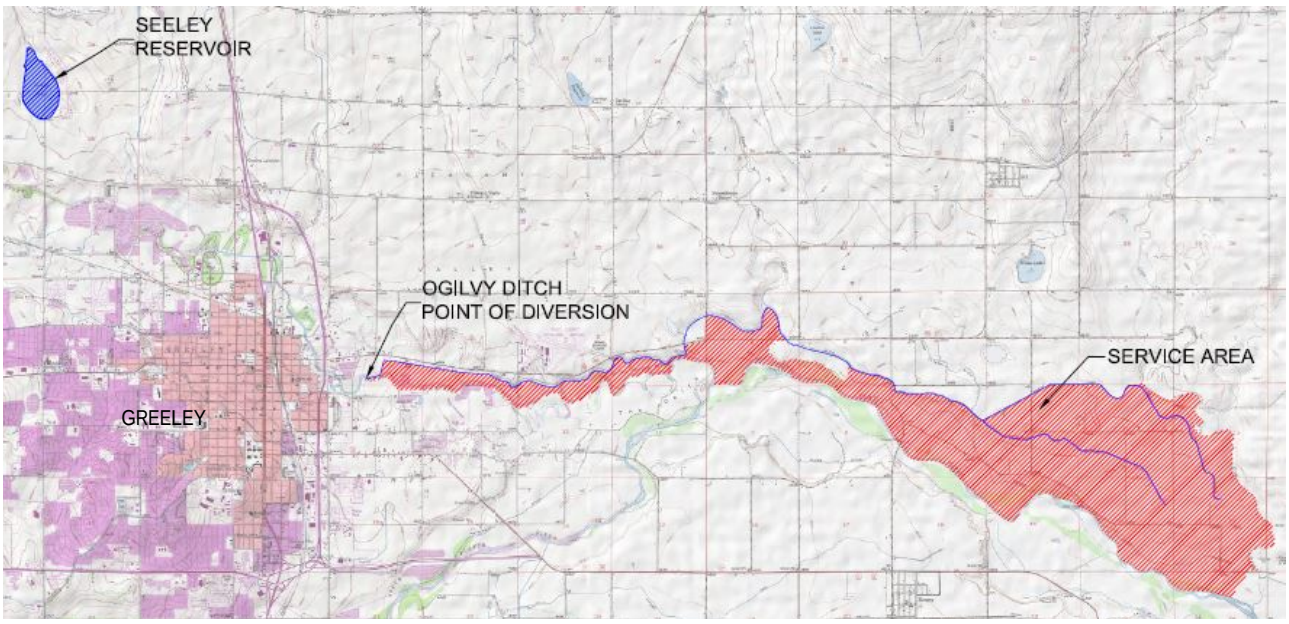
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
95%	5% Mid	0%

PROJECT DETAILS	
Project Type:	Reservoir Rehabilitation
Average Annual Diversions:	14,778 AF
Recovered Storage:	356 AF



LOCATION			
County:			Weld
Water Source:			Cache La Poudre
Drainage Basin:			South Platte
Division:	1	*District:*	3

The Ogilvy Irrigating and Land Company is a Colorado Mutual Ditch that owns and operates Seeley Reservoir and the Ogilvy Ditch. The Ogilvy Ditch system encompasses 3,600 acres from a Cache la Poudre River diversion, located on the east edge of Greeley to farms east of Kersey. Seeley Reservoir has a decreed capacity of 1,543 acre-feet. The proposed project will re-establish the physical capacity to this decreed volume. The water stored in the reservoir is used to provide supplemental irrigation supplies to the Ogilvy Ditch service area. Stored water is also used to provide augmentation water for the Ogilvy Augmentation Company, whose members own wells that provide irrigation water within the same service area. This project will recover 356 acre-feet of reservoir storage space that has been lost to sedimentation deposition over many years. New water storage sites have been considered, but would be limited to about 100 acre-feet of capacity. Sedimentation of Seeley Reservoir resulted largely because of the high inflows running through the steep inlet channel above the reservoir. The Colorado Department of Transportation completed major improvements to the Seeley Reservoir inlet channel at State Highway 392 in 2011 that substantially mitigated the conditions causing the erosion within the inlet ditch generating sediment at Seeley Reservoir. It is expected that the recurrence of sedimentation will be limited. Construction is scheduled for the fall of 2018. Funding will come from a Water Plan Grant for $1,415,740 and a CWCB loan.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

San Luis Valley Canal Headgate Construction

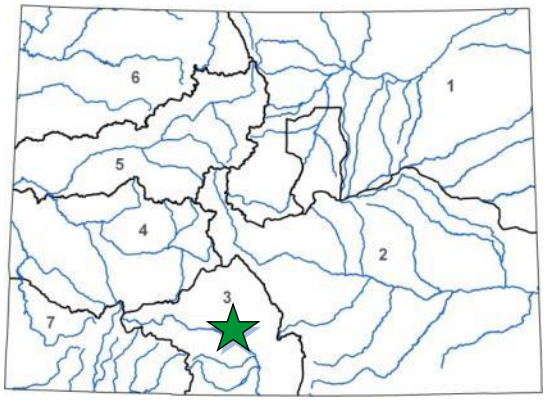
San Luis Valley Canal Company

May 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$569,000
CWCB Loan (with service fee):	$303,000
Loan Term and Interest Rate:	20 Years @ 1.45%
Funding Source:	Severance Tax PBF and WSRF Grant

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0%	0%

PROJECT DETAILS	
Project Type:	Headgate Replacement
Average Annual Diversions:	24,000 AF



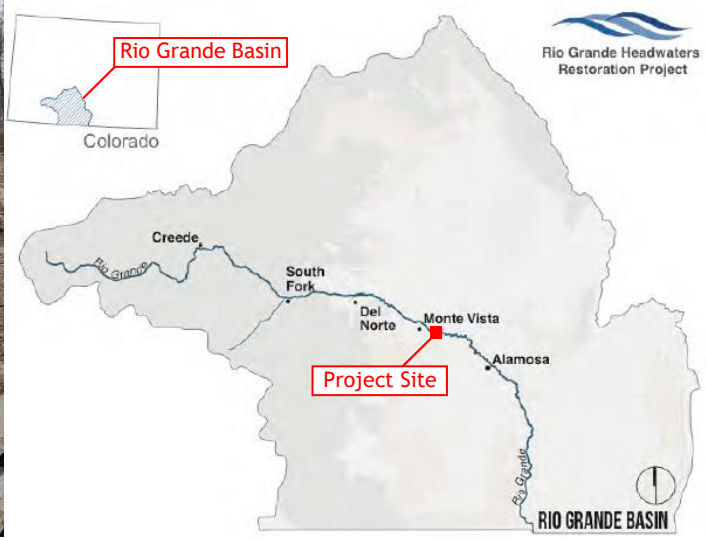
LOCATION			
County:			Rio Grande
Water Source:			Rio Grande
Drainage Basin:			Rio Grande
Division:	3	*District:*	20

The San Luis Valley Canal Company (Company) was incorporated as a mutual ditch company in 1923. It diverts water from the Rio Grande into the San Luis Valley Canal 4 miles east of the town of Monte Vista. The irrigation system serves 78 shareholders covering 20,200 irrigated acres. The Project is a structural and riparian improvement project that will improve the Company's ability to divert its water right as well as meet non-consumptive needs of the area by replacing a poorly functioning headgate and stabilizing streambanks.

The Colorado Rio Grande Restoration Foundation (Foundation) is the fiscal agent for the RGHRP and partnered with the Company, as well as four other ditch companies, to organize and raise funds for diversion and headgate improvement projects that also incorporate streambank stabilization and riparian restoration. The Foundation consolidated the individual ditch projects into a single WSRF Grant request known as "Five Ditches: Rio Grande Diversion and Headgate Improvement Project" (Five Ditches). The Foundation received a WSRF Grant to help cover the implementation cost of Five Ditches at the CWCB September 2017 Board Meeting. Additionally, the Foundation, at the CWCB May 2017 Board Meeting, received a WSRF Grant to cover the cost of engineering design for three headgate improvement projects around the Rio Grande State Wildlife Area, which included this Project. In total, $263,000 in WSRF grant funding is allocated to the San Luis Valley Headgate Construction Project.

Final Design is expected to be completed in spring 2018 with construction occurring between the 2018 and 2019 irrigation seasons.


San Luis Valley Canal Headgate



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Chilcott Augmentation Station

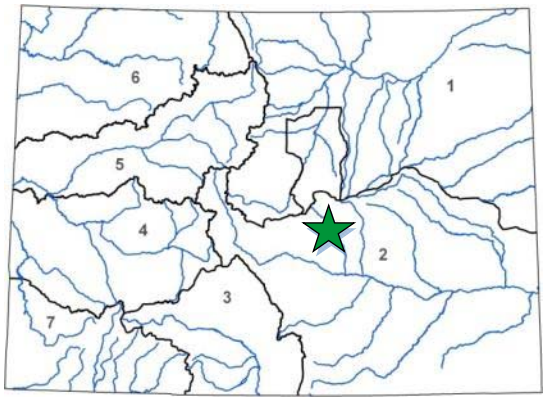
Chilcott Ditch Company

July 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$500,000
CWCB Loan (with Service Fee):	$505,000
Loan Term and Interest Rate:	20 Years @ 2.55%
Funding Source:	Construction Fund

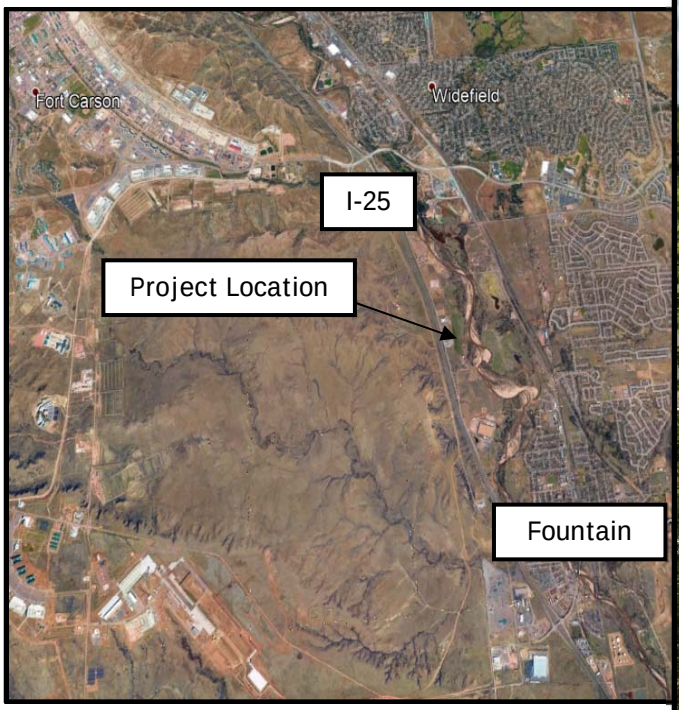
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	0% Low - 100% Mid -0% High	0%

PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Diversions:	4,961 AF



LOCATION			
County:			El Paso
Water Source:			Fountain Creek
Drainage Basin:			Arkansas
Division:	2	*District:*	10

The Chilcott Ditch Company operates the Chilcott Ditch for the benefit of its shareholders by providing direct flow irrigation water. The ditch diverts from Fountain Creek, just north of the Town of Fountain, and water travels through the Company's eight-mile-long ditch to land under the ditch as well as to an augmentation station that measures return flow to Fountain Creek on behalf of shareholders taking delivery of their pro-rata share through the augmentation station. Over time the streambank near the augmentation station has eroded and undercut the augmentation station flume. This has caused concern about the structural stability and discharge functionality and operation of the augmentation station. The Company has concluded that the protection of the augmentation station is needed. The Company desires to stabilize the embankment and reconstruct the outfall and sand discharge line considering a 100-yr flood recurrence interval and associated streamflow and water surface profile. Construction is scheduled for the fall of 2018/winter of 2019.



Current streambank and outfall conditions

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Ditch Piping Phase B

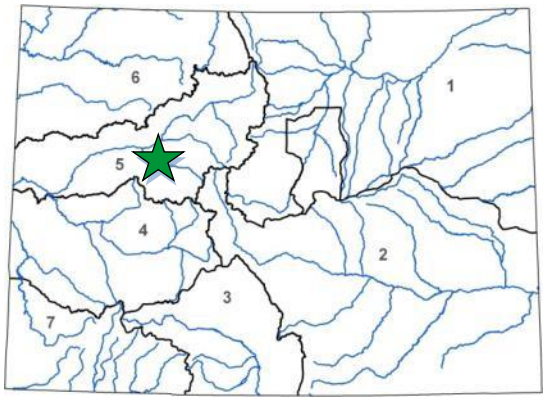
Missouri Heights Mountain Meadow Irrigation Company

July 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$400,000
CWCB Loan (with Service Fee):	$404,000
Loan Term and Interest Rate:	30 Years @ 2.05%
Funding Source:	Construction Fund

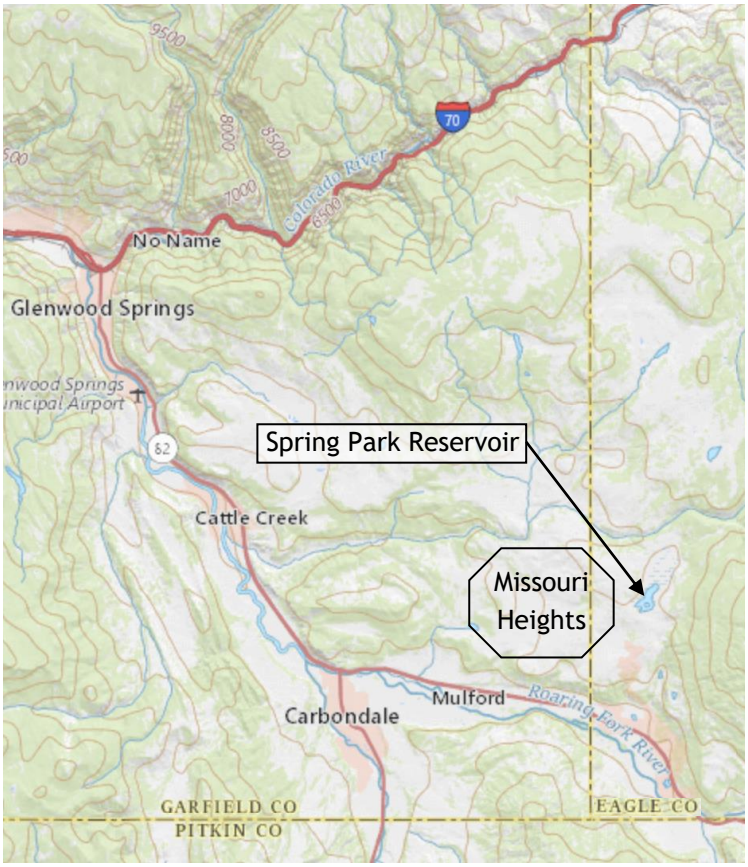
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
78%	0% Low - 0% Mid -22% High	0%

PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Diversions:	5,500 AF



LOCATION			
County:			Garfield
Water Source:			Cattle Creek
Drainage Basin:			Colorado
Division:	5	*District:*	38

The Company operates the Missouri Heights Mountain Meadow Irrigation Ditch to provide irrigation water from the Spring Park Reservoir to approximately 2,000 acres of ranch land located 12 miles northeast of Carbondale. The Company worked with the Natural Resources Conservatio service (NRCS) to evaluate water losses within its ditch. Previous construction activity lined 3,500 LF of ditch and piped 5,750 LF of ditch. This Project will pipe 9,120 LF of ditch, a section where water losses are estimated to be as high as 20%. Construction for Phase B-1 is scheduled for fall of 2018. Construction for Phase B-2 is planned to occur in fall 2019.




Existing Lined Ditch Section


Existing Piped Ditch Section


Ditch Section To Be Piped

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Ravenna Development Interconnect

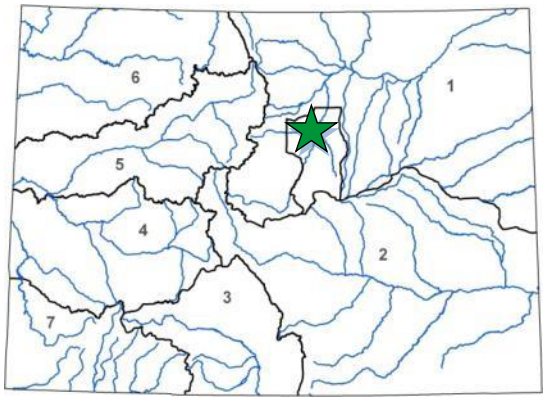
Roxborough Water and Sanitation District

July 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$1,763,750
CWCB Loan (with Service Fee):	$1,584,690
Loan Term and Interest Rate:	30 Years @ 3.15%
Funding Source:	TBD

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	0% Low - 0% Mid -100% High	0%

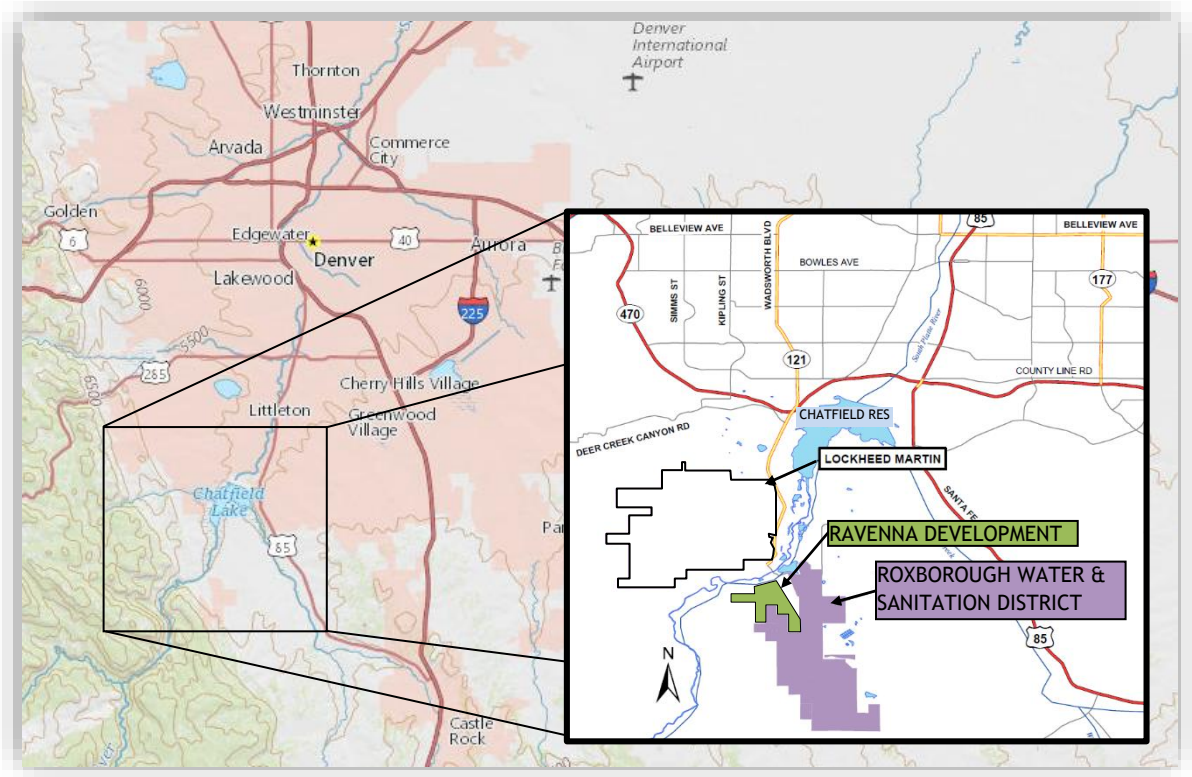
PROJECT DETAILS	
Project Type:	Municipal Water Supply System New
Average Annual Diversions:	1,200 AF



LOCATION			
County:			Douglas
Water Source:			South Platte River
Drainage Basin:			South Platte
Division:	1	*District:*	8

The Roxborough Water and Sanitation District was established in 1971 and provides water and sewer service within its service area in northwest Douglas County. In 2017 the District included the Ravenna Development (Ravenna) into its water service area. Ravenna sought inclusion into the District as a means to replace its non-renewable water supply (non-tributary groundwater wells) with a renewable water supply and as a means to efficiently provide potable water to the residents of Ravenna.

In summer of 2017, the District installed a single emergency interconnect with Ravenna and has been the sole source of potable water for Ravenna since. The inclusion agreement requires that in addition to the emergency interconnect, two additional interconnects between the District and Ravenna be constructed in order to provide a permanent and reliable water supply to Ravenna. Construction will include two new interconnections, a new pipeline, and the relocation of a pressure reducing valve. Final design, right-of-way acquisition, and county approvals is scheduled to be completed by fall 2018. Construction is expected to begin late 2018 and continue into the early part of 2019.



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Automatic Meter Implementation

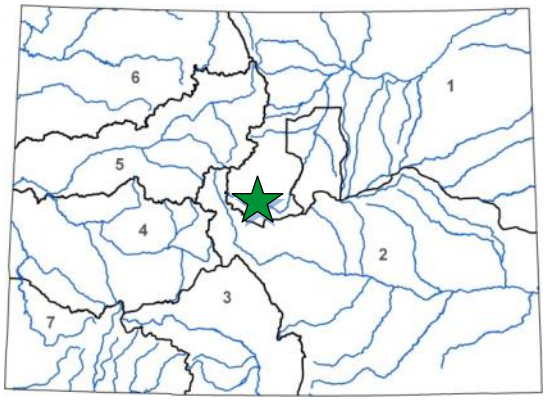
Arabian Acres Metro District

September 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$400,000
CWCB Loan (with Service Fee):	$404,000
Loan Term and Interest Rate:	10 Years @ 1.85%
Funding Source:	Construction Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	100% Low - 0% Mid -0% High	0%

PROJECT DETAILS	
Project Type:	Water Meter Replacement
Average Annual Diversions:	17 AF



LOCATION			
County:			Teller
Water Source:			Groundwater
Drainage Basin:			South Platte
Division:	*1*	*District:*	*23*

The Arabian Acres Metropolitan District (District) provides potable water service to the Arabian Acres subdivision and Trout Haven Estates in Teller County. The District currently serves 145 residential and 5 commercial taps for a population of approximately 392 people. The District has had trouble providing reliable service with an approximately 40-year-old, poorly constructed distribution system that leaks considerably and lacks adequate flow measurement of potable water delivery. Through this Automatic Meter Implementation (Project) the District intends to install an automatic meter reading (AMR) system, new meter pits, installation hardware, a drive-by meter read base station, and software. This Project will help improve the District's operational efficiency by upgrading its water system. The meters will help accurately measure the amount of water usage and help quantify the system water loss. In addition to the loan, the District is also seeking a DOLA Energy Impact Assistance Fund Grant for 50% of the project cost.