



COLORADO

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

DIRECTOR'S REPORT

November 2020

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



COLORADO

Colorado Water Conservation Board

Department of Natural Resources

TO: Colorado Water Conservation Board Members

FROM: Rebecca Mitchell
Alana Holdren

DATE: November 18-19, 2020

SUBJECT: **Agenda Item 4d, November 2020 CWCB Board Meeting Director's Report**

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~STATEWIDE~

Finance Section Director’s Report Items – November 2020

CWCB SMALL FEASIBILITY STUDY GRANT FUND UPDATE:

New grant applications approved:

1. Bear River Reservoir Company – Stillwater Reservoir No. 1 Rehabilitation (\$49,930)

Previously approved grants in FY20/21:

1. None

Total funds approved for feasibility study grants in FY20/21: \$49,930

~COLORADO RIVER BASIN~

COLORADO RIVER WATER USE—

2020 Colorado River Storage as of October 26, 2020			
	Elevation (feet above mean sea level)	Storage (MAF)	Percent of Capacity
Lake Mead	1,082.34	10.206	39%
Lake Powell	3,592.49	11.047	45%
Total System Active Storage		28.372	48%
2019 Total Active Storage		31.294	52%
		Flow (MAF)	Percent of Average
Forecasted Unregulated Inflow into Powell (Forecasted Water Year 2020)		5.848	54%

Forecasted CY 2020 Lower Basin Consumptive Use		
State	Use (MAF)	Total (MAF)
Arizona	2.462	
California		
California Agricultural	3.228	6.791
Metro. Water District	0.826	
Other	0.015	
Nevada	0.260	

*Note MAF = million acre-feet

Upper Colorado River Wild and Scenic Stakeholder Group—

On October 29, 2020, the Upper Colorado Wild and Scenic Stakeholder Group (SG) held its quarterly meeting. The SG discussed upcoming timeline and tasks, new member process, and a permanent organizational structure. The SG is currently learning about different financial structures to support the group including endowment funds. The SG continues to implement its monitoring commitments including approving a contract for water temperature analysis and working to select a consultant to develop an observational monitoring plan to better understand the effects that peak flows have on channel maintenance processes. The SG also approved a Floatboating and Fishing Recommendation Committee annual data evaluation process. This process will be used in 2022 as no Outstandingly Remarkable Values indicator data was collected in 2020 due to COVID-19.

The Amended and Restated Management Plan was completed in June 2020 and includes final Outstandingly Remarkable Values indicators and Resources Guides related to recreational fishing and floatboating.

Requests for Administration of Instream Flow Water Rights

From September through October 2020, staff investigated low flow alerts from the satellite monitoring system and made 2 formal requests for administration, identified in the table below. The Division Engineer worked to enforce the calls through curtailment of junior water rights or undecreed uses, limiting water rights to decreed rates, through implementation of augmentation plans, and denying junior exchanges. The call letters and detailed information on the Board’s rights that were administered can be found on the CWCB’s web page at: <https://cwcb.colorado.gov/instream-flow-administrative-calls>

Stream Name	Water Division	Case Number	Date of Formal Written Call	Amount (cfs)/ Dates	Terminus
Colorado River	5	80CW044 7	10/22/2020	90 (1/1-12/31)	UT: hdgt Windy Gap Project Diversion LT: confl Williams Fork River
Roaring Fork River	5	76W2948	9/30/2020	32 (1/1-12/31)	UT: confl Difficult Creek LT: confl Maroon Creek

UPPER COLORADO RIVER ENDANGERED FISH RECOVERY PROGRAM—COLORADO RIVER 15-MILE REACH WATER RELEASES

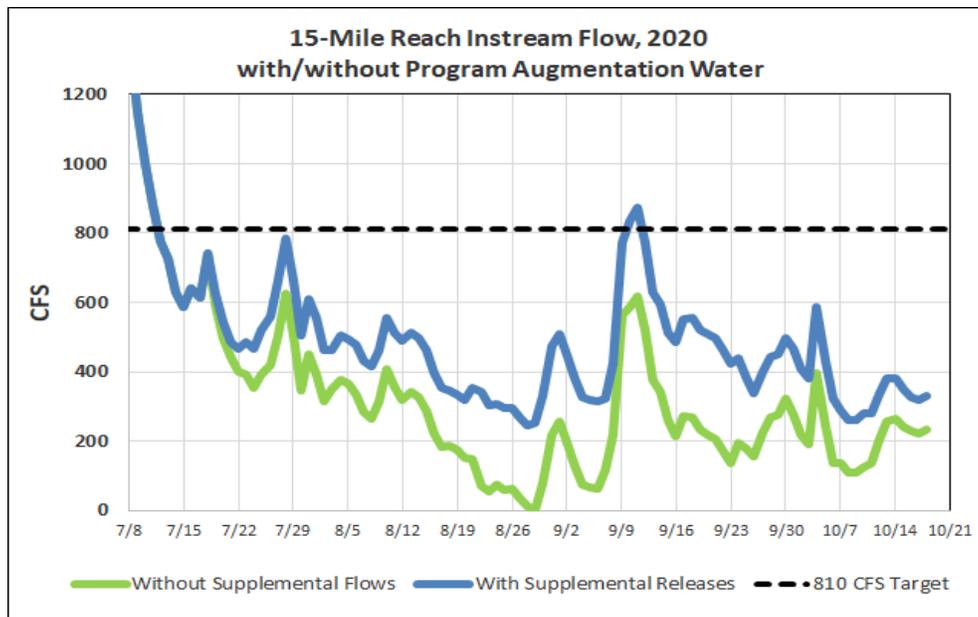
Extreme to exceptional drought conditions that developed in the Colorado River basin during the summer significantly impacted flows in the 15-Mile Reach, which stretches from Palisade to the confluence with the Gunnison River and is designated as critical habitat for two of the four endangered fishes. These unusually hot and dry conditions continued throughout the summer/fall, resulting in decreased and below average streamflows since April. Streamflows remain well below average due to low precipitation (currently at 78 percent of average calendar year to date) and above average and

record temperatures. Furthermore, three of the five largest Colorado wildfires have had pronounced effects in the basin.

These low flow conditions increased predation and crowding stress on the endangered fish due to habitat restrictions, including a limited number of deep-water pools. As result, a large number of Colorado pikeminnow moved out of the Colorado River and into the lower Gunnison River through the Redlands fish passage.

Early in the runoff season, the Upper Colorado River Endangered Fish Recovery Program and the Colorado Water Conservation Board began coordinating with reservoir operators in the basin to voluntarily leverage excess reservoir inflows to augment spring peak flows in the 15-Mile Reach to improve fish habitat. These voluntary Coordinated Reservoir Operations were conducted in late May/early June and were successful in augmenting peak flows to exceed 12,000 cubic feet per second in the 15-Mile Reach.

In response to the rapid decrease of streamflows starting in mid to late summer, the Recovery Program, with its partners, was able to release almost 40,000 acre-feet of water between July and October to benefit the endangered fish in the 15-Mile Reach. These releases included the Colorado Water Conservation Board’s short-term leased water from the Ute Water Conservancy District and Garfield County, other water donated to the Recovery Program, and water from new partnerships as well as dedicated pools from Wolford, Granby and Ruedi reservoirs and a small volume from Green Mountain’s Historic Users Pool. Without these water releases, the 15-Mile Reach may have gone completely dry at the end of August (see graph below). (Jojo La)



Weather Modification Updates

The Agreement Establishing Programmatic Funding for Colorado River Basin Weather Modification has been extremely important in supporting weather modification programs within the State of Colorado. This funding helps to ensure that these weather modification programs can augment water supplies for the Colorado River system via cold season cloud seeding. This year the Lower Basin

provided \$438,000 dollars in funding to help augment water supplies for the Colorado River system via cold season cloud seeding.

The Central Colorado Mountain River Basin program (CCMRB) is focused upon some of the most productive snowsheds in the Upper Colorado River Basin and has benefitted from lower basin funding to extend operations and support program upgrades. Within the CCMRB program target area lies the Vail and Beaver Creek program, which until this year has been entirely funded by Vail Resorts. Vail Resorts has the longest active weather modification program within the State of Colorado and has been cloud seeding for 44 years. Unfortunately, due economic challenges associated with the COVID-19 pandemic, Vail Resorts has experienced severe budget shortfalls, forcing them to suspend all funding for the 2020-2021 winter season. This has resulted in an approximately \$300,000 dollar loss of funding for seeding activities over the Central Rocky Mountains, severely reducing the ability to augment and increase water supplies.

This recent decision has put managers of the CCMRB in a very difficult position as they endeavor to meet the needs of drought recovery. As such, the State of Colorado and CCMRB partners are actively seeking replacement funding and to develop contingency plans.

On a more positive note, the CWCB will be deploying four temporary remote generators for the upcoming season; one in the San Juan Mountains, one in Grand Mesa, one in Summit County, and finally one in Grand County.

Staff also recently renewed the Vail/Beaver Creek Program permit, the Grand Mesa Program permit, and the Jackson County Aerial Program permit. Staff issued a new San Juan Mountains Program permit, which is a new single permit that now houses the Eastern San Juan Mountains, the Western San Juan Mountains, and Western Dolores/Telluride seeding locations all under one permit. (Andrew Rickert)

~GUNNISON RIVER BASIN~

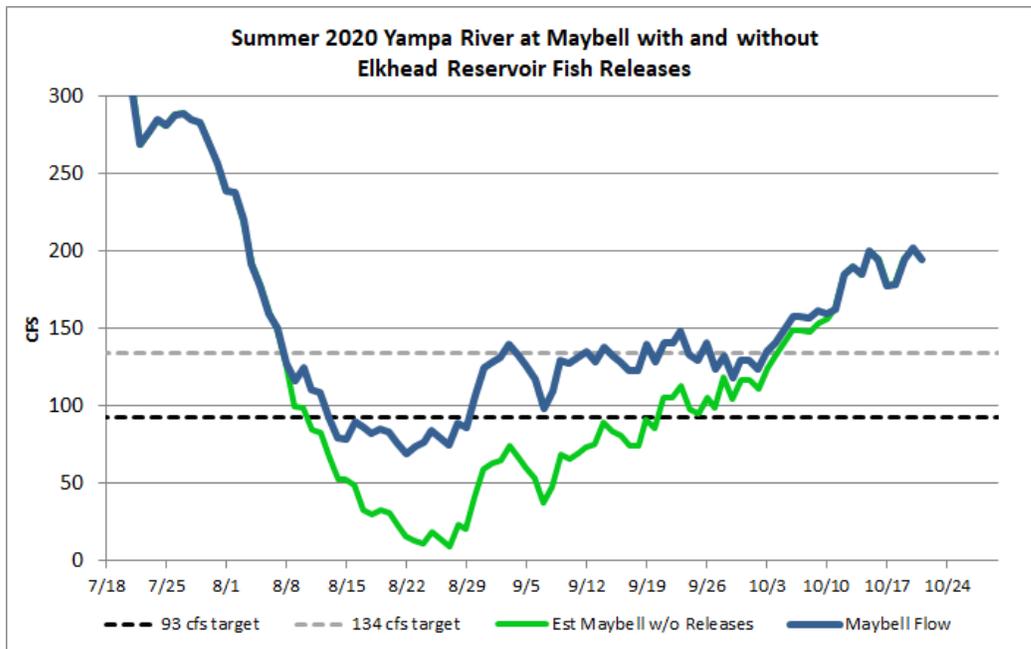
RECENTLY DECREED ISF WATER RIGHTS: On October 19, 2020, the Division 4 Water Court decreed instream flow (ISF) water rights to the CWCB on a reach of Gold Creek in Case No. 19CW3049 for 4.0 cfs (4/15-7/10), with an appropriation date of January 29, 2019. The upstream terminus is Gold Creek's headwaters, and the lower terminus is the Tarkington Ditch headgate. This reach is approximately 10.32 miles long and flows in a southwesterly direction through parts of Gunnison County. This water right is in addition to an existing ISF on Gold Creek decreed in Case No. 80CW0135, to the CWCB for 7.0 cfs (01/01-12/31), with an appropriation date of March 17, 1980. High Country Conservation Advocates recommended this reach to protect the creek's robust riparian community, and its population of brook trout (*Salvelinus fontinalis*).

~YAMPA/WHITE RIVER BASIN~

UPPER COLORADO RIVER ENDANGERED FISH RECOVERY PROGRAM—YAMPA RIVER BASIN ELKHEAD RESERVOIR WATER RELEASES

The Yampa River basin experienced devastatingly low flows this summer/fall. In the spring, runoff resulted in streamflows in the Yampa River that were close to and slightly above average. However, since April, streamflows dropped significantly and remain well below average due to low precipitation (currently at 82% of average calendar year to date) and above average temperatures (approximately +2.7 degrees Fahrenheit above average over the summer). In late August, the Yampa River was placed on call for the second time in history (from August 25 to September 3, 2020). The low flows resulted in reduced availability of food, access to critical habitat and river passage for the endangered fish as well as degraded water quality. In addition low flows increased predation by non-native fish species on the endangered fish.

In response to these historically low streamflows, the Upper Colorado River Endangered Fish Recovery Program, in coordination with the Colorado Water Conservation Board and the Colorado River Water Conservation District, released almost 6,500 acre-feet of water from Elkhead Reservoir during the summer/fall low flow season. Together with its partners, the Recovery Program was able to release enough water to avoid a potential dry up of the stream at the end of August and to keep flows from falling below the U.S. Fish and Wildlife Service’s dry-year target of 93 cubic feet per second at the Maybell gage from September through October (see graph below). (*Jojo La*)



~ WATER CONSERVATION AND DROUGHT PLANNING UPDATES ~

OWCDP Director's Report Items – November 2020

CWCB WATER EFFICIENCY GRANT FUND PROGRAM (WEGF) UPDATE:

One grant applications have been received since the September 2020 Director's Report

- **Town of Hudson** – Water Efficiency Plan

Two grants have been approved since the September 2020 Director's Report

- **Town of Windsor** – Drought Management Plan (\$20,000)
- **Tri County Water Conservancy District** – Water Efficiency Plan Update (\$19,961)

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

- **Crested Butte South Metropolitan District** –Water Efficiency Plan – *50% Progress Report*
- **City of Westminster** – AMI Water Meters Install – *75% 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:

DROUGHT MANAGEMENT PLANS

Approved Plans

No new plans have been approved since the last board meeting.

Drought Management Plans in review

- City of Durango

WATER EFFICIENCY PLANS

Approved Plans

- **City of Loveland**
- **City of Alamosa**

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.

Conditional Approval

- **Widefield Water & Sanitation District**
- **City of Lamar**
- **Town of Eagle**
- **Northglenn**
- **Pueblo West**
- **City of Westminster**
- **Sterling**
- **Evans**

Water Efficiency Plans in review

- **Central Weld County Water District**
(Kevin Reidy & Ben Wade)

GOVERNOR’S WATER AVAILABILITY TASK FORCE: The next Water Availability Task Force meeting will be held on November 19 from 9:30-11:30am. Please check the website (<http://cwcb.state.co.us/public-information/flood-water-availability-task-forces/Pages/main.aspx>) for additional information. **(Ben Wade)**

CO WATER LOSS INITIATIVE: Kevin Reidy 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. At present, the consultant team is putting the finishing touches on the final report for the entire program. A non-reimbursable request was successful through HB 20-1403 for Phase II of the CO Water Loss Initiative. Kevin is almost finished with an RFP for this second phase to continue Phase I work. **(Kevin Reidy)**

LAND/WATER PLANNING NEXUS:

- Sonoran Institute, through a CWCB water plan grant, has extended their Colorado Growing Smart program to carry out 3 more additional workshops over the next 18-24 months. Kevin is on the advisory group for these trainings. The next and last of the three trainings is being held virtually at present time. At the time of this report, we have completed two days of training with two more to go.

- Kevin has been participating on the core planning team for the Denver One Water Plan funded by a water plan grant. The team consists of various Denver city departments, Mile High Flood, Denver Water, Metro Wastewater and the Greenway Foundation. The core team has been working on defining what the plan will cover and what goals the plan should address. The project held its first One Water Community virtual meeting and will be holding the second One Water Advisory Group virtual meeting on November 10. **(Kevin Reidy)**

~WATERSHED AND FLOOD UPDATES~

Watershed and Forest Health Technical Assistance Team

The Colorado Water Conservation Board (CWCB) has contracted with Enginuity and its partners to readily deploy resources to assist with the Colorado Watershed Restoration Program (CWRP) in activities related to technical support for grant applicants and grantees for design review, engineering analysis, and construction oversight. Other services to be provided under the resulting contract include: support for the CWCB for fire and flood analysis, fluvial hazard zone program implementation, project monitoring and adaptive management, and overall program management.

WILDFIRE RECOVERY: SUMMARY OF TECHNICAL ASSISTANCE SERVICES

Review of technical analysis and design

- Review of emergency designs and projects by a team of multi-disciplined professionals including experts in engineering, geomorphology, vegetation, ecology, and biology.

Technical Evaluations, Analysis, Planning, and Project Prioritization

- Data Collection and Baseline Conditions Assessment.
- Gap analysis. Identifying where additional data and/or evaluations are needed to support decision making.
- Pre and post-burn hydrology and evaluation of changes by scale (HEC-HMS, GSSHA, StreamStats or other).
- Post-burn hydraulics (basin-wide) to determine increased flood risk (HEC-RAS 1D and 2D or RiverFlow2D). This analysis can include the addition of bulking factors to account for sediment and debris loading.
- Fluvial hazard zone delineation and assessing geomorphic risk. After a wildfire, FHZ maps (<https://www.coloradofhz.com/>) can be quickly and cost-effectively created to delineate areas vulnerable to sediment and debris impacts spurred by rainfall over the burn scar. Mapping these post-fire hazards may allow downstream residents to prepare by preemptively moving vehicles, storage units, and other items to safer locations and to develop evacuation plans.
- Sediment and debris flow modeling (FLO-2D, USFS, and USGS methodologies).
- Assistance with identification of values at risk and project/area prioritization.
- Detailed Damage Survey Report (DSR) support with NRCS.
- Flood warning support including correlation to hydrology, hydraulics, and FHZ mapping

- Watershed recovery plan development; technical analysis, prioritization, concept design, and implementation recommendations.

Program/project management and recovery program support

Recovery program support coordination and administrative (program) support including:

- Recovery program facilitation and coordination;
- Identification and assistance with stakeholder groups and water users;
- Goal setting and objective development (recovery goal setting workshops);
- Recovery funding identification and funder coordination including recovery funding workshops;
- Determine funding mechanisms for priority projects (align projects with appropriate funding);
- Development of handouts, website (as requested), social media content, and fact sheets;
- Standardized templates for reporting, invoicing, or communication;
- Support for communication protocols and outreach materials;
- Assistance with project prioritization;
- Compliance with federal or state reporting;
- Assistance with tasks that are assigned to local sponsors;
- Assistance in setting up a pre-qualified list of contractors;
- Procurement support
- Assistance in project closeout and reporting.

Adaptive management and monitoring

- Baseline data collection for post-fire monitoring.
- Support for development of an adaptive management framework for recovery.
- Support and coordination with research partners.
- Performance of monitoring activities.
- Recommend management strategies.

Construction oversight assistance

- Assistance with permitting requirements
- Quality assurance for emergency work including both design and construction

TECHNICAL ASSISTANCE TEAM CONTACT:

Jeff Sickles, jsickles@enginuity-es.com

PH (c): 303.570.4609

-Chris Sturm

NFIP Community Assistance Program Coordinator

- **Flood After Fire.**
As stated in the September report, the Colorado State Recovery Task Force (RTF) was activated in August in response to multiple wildfires. Since that time, the East Troublesome, Calwood, and Cameron Peak fires have greatly impacted multiple watersheds. This office continues to

work closely with the CO Division of Homeland Security & Emergency Management (DHSEM), the Department of Local Affairs (DOLA), impacted Colorado communities, and the Federal Emergency Management Administration (FEMA) to coordinate timely and effective flood-after-fire information to residents, staff, and elected officials.

In early September, the NFIP community assistance coordinator recorded a DHSEM-produced PSA video on the dangers of flood after fire; the video has been shared on multiple agency platforms. Additionally, we have attended and participated in community meetings (virtual) for communities impacted by the Pine Gulch, Grizzly Creek, Cameron Peak, et al fires.

The message to the communities and their residents is the time to purchase flood insurance is now to assure financial protection from flooding and also to take additional steps to reduce their risk such as preparing their property and emergency planning for any future flood event. This message is equally important to those whose properties are not currently in an identified flood zone but who may now be at risk following the fires as 20-30% of all annual flood insurance claims are for properties outside regulatory flood zones. Outreach to communities not currently participating in the NFIP is being coordinated. Working with FEMA's flood after fire team, the CWCB plans to present several webinars on the importance of flood insurance in early 2021 for impacted communities.

Certified Floodplain Managers (CFM) Exam

On Oct. 29 & 30, the CAP coordinator attended the Floodplain Management 101 webinar sponsored by the Colorado Association of Stormwater & Floodplain Managers (CASFM) for floodplain management professionals from across the State and presented several units of instruction. Floodplain Management 101 consists of 10 units and covers the history of the National Flood Insurance Program, floodplain management regulations, hazard mitigation, and other floodplain development topics; it is designed as a study resource for attendees who will be taking the Association of State Floodplain Manager's (ASFPM) Certified Floodplain Managers exam as well as a refresher for floodplain management professionals.

- Doug Mahan

Wildfire Recovery Technical Assistance

The Watershed and Flood Protection Section's Watershed Scientist will work closely with the recently contracted Engenuity and its partners to assist with data collection, technical analysis, and other activities as appropriate to ensure that the team has the tools that they need to give technical support for grant applicants and grantees for design review, engineering analysis, and construction oversight, as well as support for fire and flood analysis, fluvial hazard zone program implementation, project monitoring and adaptive management, and overall program management. Additionally, the Watershed Scientist has been attending community meetings related to fire recovery to remain apprised of opportunities to provide technical assistance for watershed recovery.

The Watershed Scientist has also been preparing to take the Certified Floodplain Manager exam in early November, studying the minutiae of the National Flood Insurance Program, floodplain management regulations, hazard mitigation, and other floodplain development topics.

-Andrea Harbin Monahan

New Hire for Floodplain Mapping Manager Position and Thanks to Floodplain Mapping Assistant – The CWCB Flood Section recently finished the hiring process for the Floodplain Mapping Program Manager position, recently vacated by Thuy Patton on September 4th. The Flood Section is pleased to announce the hiring of Terri Fead, a longtime employee of the Mile High Flood District (District).

Terri brings 36 years of experience to the position, both in the public and private sectors. She is a licensed engineer and a certified floodplain manager. She has been with the Mile High Flood District in some capacity for nearly 20 years, with emphasis on management of their Letter of Map Change Delegation program for the District. Terri is familiar with mapping processes and how to work with FEMA on a Cooperating Technical Partner (CTP) program. Because the CWCB operates under a similar CTP program and is about to undertake a Letter of Map Change Delegation program for the first time in January, it is expected that Terri will be able to hit the ground running and continue to move the program forward immediately.

Kevin Houck, Flood Section Chief, would like to thank Thuy Patton for her 14 years of service to CWCB, the majority of them in the Floodplain Mapping Manager position.

Kevin Houck would also like to tremendously thank Marta Blanco-Castano, Floodplain Mapping Assistant in the Flood Section, for working extremely hard during the months of September and October (and will be for most of November) to keep the floodplain mapping program operating seamlessly between hires. Marta received an unexpected tall order upon Thuy's departure, and did the work of two people during this period. Marta, who has been employed by CWCB since January, did a terrific job of keeping the program moving effectively, and deserves kudos for her hard work.

(Kevin Houck)

November Risk MAP Project Updates by Major Water Basin

North Platte – No work being conducted in this area.

South Platte – Park, Jefferson, Gilpin, Boulder, Larimer, Weld, Morgan, Washington, Sedgwick, and Logan Counties have ongoing studies (though some are managed/led by the Mile High Flood District, or MHFD):

- Weld County: Preliminary FIRM database sent September 17. All meetings have taken place. The appeal start date will likely be in early 2021.
 - o Cache La Poudre Additional Studies: FEMA provided additional funds for this effort in FY 2018. The floodplain mapping was approved. Larimer County preliminary FIRM database distribution will likely go out mid-December 2020. Approval/denial Provisionally Accredited Levee (PAL) letters were sent mid-October for the Timberline and Drake levees in Fort Collins, with one being approved and the other levee requiring further modifications before the letter can provisionally approve the levee’s certifiable status.
- CHAMP Physical Map Revision, Phases 1-2: 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, Gilpin, Weld, and Larimer Counties.
 - o Boulder County: A new appeal period begins early November, and a revised preliminary DFIRM panel distribution will be issued. Tentative new appeal start date for November 2, 2020.
 - o Larimer and Big Thompson River areas: floodplain mapping issues were addressed with guidance from FEMA, and all data development approved.
- The St. Vrain Risk Map phase 3: Project continues from its original funding in FY16. Gilpin County’s appeal period will be scheduled soon (likely late 2020/early 2021). Federal Register publication went out late October.
- Elbert and Park Counties Base Level Engineering (BLE): Projects just kicked off late August. Contractor working on topographic data processing, and collecting community studies information via an electronic Discovery Questionnaire. BLE is a wide scale, automated approach to analyzing flood risk order to provide communities with an initial overview, but it is not a regulatory product.

Colorado – Mesa, Eagle, Summit, and Garfield Counties have ongoing studies:

- Mesa County Phase 2: Survey, terrain, and basemap data submittals are approved. The hydraulic analysis for Colorado River areas was submitted late October. The remainder of the County, including floodplain mapping, is being funded by the FEMA FY20 grant.
- Flood Risk Information System (Mesa County): Contractor is developing a web app to present draft flood risk products in Mesa County. This will include a public user interface as well as a community official (private) interface to highlight various types of flood risk information.

Contractor has developed most components of the interface, and we are reviewing as well as quality checking/quality testing functionality. We expect this site to be ready to distribute/public to the public in the next couple of months (late 2020/early 2021).

- Grand Junction Levee (Mesa County): Project kicked off in the summer. This is a component of the larger countywide Mesa County project. We are currently obtaining data and information from the local community, and will have more updates in the next couple of months.
- Eagle County Physical Map Revision Phases 2-3: The hydraulics submittal has been approved. Eagle County and the Town of Basalt did not provide comments or feedback regarding the floodplain mapping developed, so tasks were submitted to our reviewer and edits are being coordinated.
- Garfield County Phase 2-3: CWCB received a \$212,558 grant in FY17, to provide updated hydrologic and hydraulic engineering as well as floodplain mapping for the Roaring Fork River. Colorado River floodplain mapping services were also scoped within the County to convert the study to a countywide effort. Hydraulics has been completed but the flood risk review meeting will likely take place late 2020 due to some last minute tie-in issues and lack of modeling data that is required for floodplain mapping.

Gunnison/Uncompahgre – Delta, Gunnison, Hinsdale, San Miguel, and Ouray Counties have ongoing studies:

- Delta County Phase 2-3. Some issues with hydraulics data in the southern tip of the county being handled thanks to recent preliminary topographic data that was just made available this summer. Hydrology is being reviewed and hydraulics almost complete. A flood risk review meeting will be scheduled for early 2021.
- Upper Gunnison Phases 2-3: This project is being continued under new grants (since the original FY15 grant), part of which are covered by state funds such as the Hinsdale County Partial Countywide Revision. The Gunnison Physical Map Revision process is being covered by FEMA FY19 funds.
 - o Hinsdale County: Hydraulics comments were received and we are working on minor edits.
 - o Gunnison County: Survey was acquired along the Gunnison River. Hydrology was submitted late October, and hydraulics will be worked on soon.

Rio Grande – Costilla, Mineral, Conejos, Alamosa, and Rio Grande Counties have ongoing studies:

- Rio Grande River hydrology: The hydrology results have been approved by FEMA Risk MAP reviewers. We have obtained concurrence from all communities along the study area in order to process a formal Conditional Letter of Map Revision (CLOMR). This CLOMR will ensure the hydrology updates become the new official source of hydrology data for future studies along this basin. Project is almost complete.

- City of Alamosa levee: The project final reporting expected for late 2021. Contractor working with City on wrapping up last items for the study, including an ice jamming component and levee certification recommendations.

Arkansas – Lake, Chaffee, Fremont, Teller, El Paso, Custer, Huerfano, Las Animas, Otero, Bent, Prowers, and Lincoln Counties have ongoing studies:

- Arkansas River Physical Map Revision: Chaffee and Fremont Counties hydraulics were approved. Prowers County hydraulics are being refined based on reviewer comments. These projects are moving on as countywide studies thanks to FEMA FY19 and FY20 funds.
- Lake and Chaffee BLE: Contractor is working on the topographic data refinements and begun modeling in some areas. Some additional coordination with another contractor is required to obtain inflow data for nearby counties. Lake County should be almost complete and the BLE data submittal will go out in November. Chaffee’s data submittal will likely wait until December.
- Custer and Fremont BLE: The initial stage of modeling for these two counties is underway. Coordination with another contract is required to receive tie-in flows.
- Huerfano BLE: Hydraulics internal QA-QC currently underway. Submittal for official review likely in late November. Discovery meeting expected for late 2020/early 2021.
- Bent and Otero BLE, and CHAMP 3 Phase 2 projects: Base Level Engineering work being coordinate with another contractor, to receive tie-in flows. This project will upgrade the Bent and Otero counties to countywide studies, since the Arkansas River corridor portions were part of CHAMP 3 Phase 2.
- Las Animas (Bent County) Pre-Levee: Project is part of the larger countywide map update for Bent County. Contractor is working with the local communities to obtain data and information.
- Granada/Holly (Prowers County) Pre-Levee: Contractor performed site visits at the Granada, Holly, and Lamar levees to obtain survey data, reporting, information, and coordinate with the locals. More information and a Discovery meeting to be held late 2020.
- Prowers and Las Animas BLE projects: LiDAR data was shared with contractor, and a kickoff meeting likely to be held late 2020/early 2021.
- El Paso BLE/Phase 2 and Templeton Gap (T-Gap) pre-levee work: Original work in El Paso County was funded in 2014, but continues through FY19 and FY20 funds. Discovery meetings and Phase 2 kickoff meetings held in the summer. This county will have a 2-year study with about 50 miles worked on in the first year, and another 100 miles in the second year of data development. We are currently finalizing the scope of work by refining the streams that will be studied in an approximate or detailed capacity throughout the unincorporated portions of the county.

- Teller County BLE/Phase 2: Phase 2 kickoff meeting held during the summer. Official reviews are already taking place for the Discovery portion of the study. Around 20 miles of study were scoped throughout the County.

Yampa/White – Rio Blanco, Routt, and Moffat Counties have ongoing studies:

- Upper Yampa River hydrology: This is a state funded effort to update hydrology for the Upper Yampa River. The report has been submitted and we are working with FEMA on addressing some clarification comments and obtaining final approval. Once FEMA approves the hydrology, meetings will be set up with the local communities to obtain concurrence on the updates via the CLOMR process.
- Upper White Watershed/Rio Blanco County Additional Studies: Originally, the Upper White Watershed project was funded in FY16 but work continues today. All relevant meetings, including public open houses, were held during the summer. The appeal period started on October 29, as the newspaper publications went out October 22 and October 29.

San Miguel/Dolores/Animas/San Juan – La Plata, Montezuma, Archuleta, and San Juan Counties, along with the Southern Ute Tribe, have ongoing studies:

- Animas Watershed Phases 2-3: FEMA awarded CWCB \$654,717 to fund this project’s phase 2 to update 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. FEMA then awarded funds for Phase 3 of this project under FY18 to take the project through additional community and public meetings as well as the appeal period. Currently, the non-regulatory products produced to portray flood risk across the four project counties and the Southern Ute Tribe are complete and were presented at the Resiliency meeting on August 6. The preliminary DFIRM products will be ready for distribution likely in early 2021. A Consultation Coordination Officer (CCO) meeting will be held after the preliminary DFIRM distribution early next year.
- Southwest Colorado (Montezuma, Dolores, San Juan, La Plata, Archuleta, Hinsdale, and Mineral Counties) BLE: Contractor is processing 2 of the 3 topographic data deliverables, and awaiting the last piece of the data which will arrive likely late 2020.

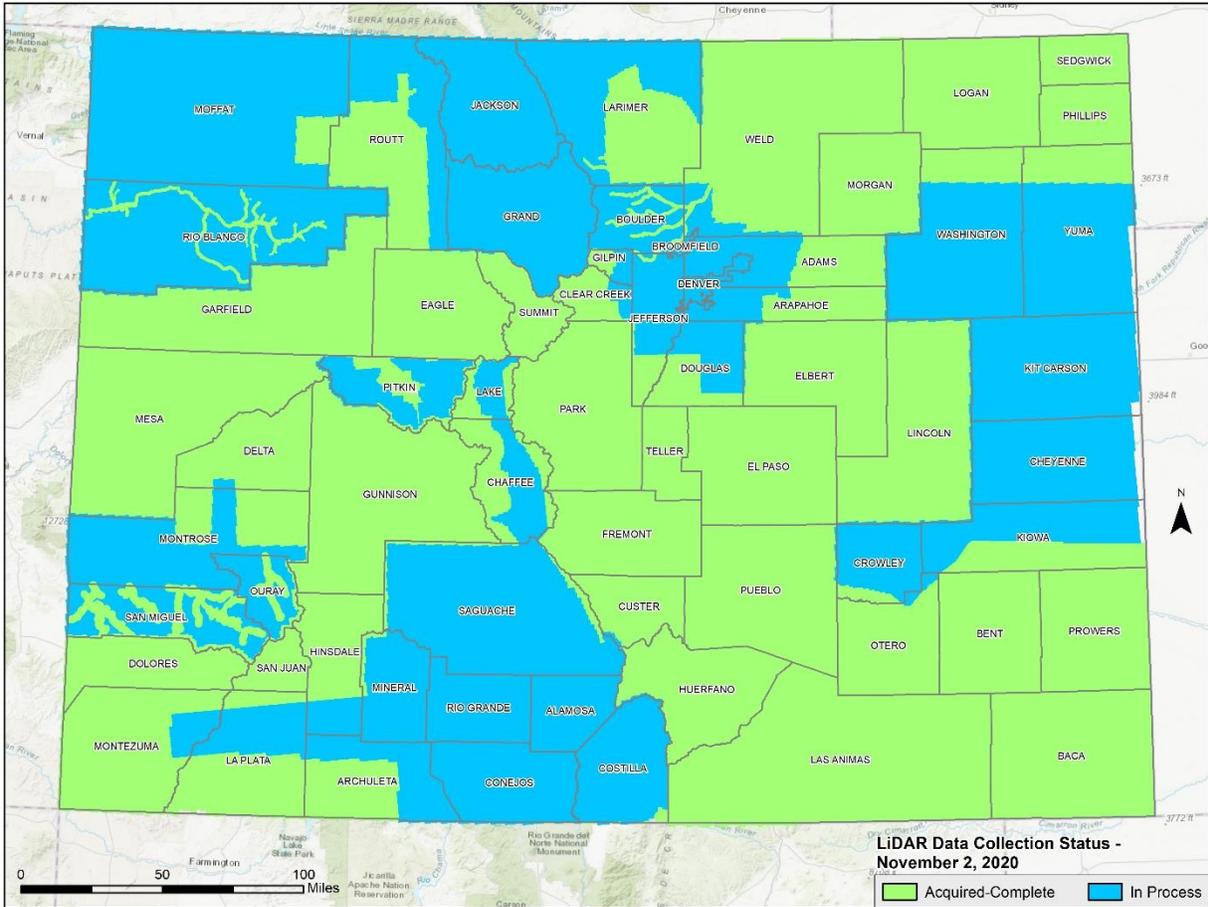
Multi-Watershed Projects

- CHAMP 3 Phase 2 (also see: Arkansas projects, and the Rio Grande River hydrology work for related information): *Bent and Otero Counties* addressed under the Arkansas Basin projects. *Costilla County* floodplain mapping updates being and the hydrology task approved along the Rio Grande River. *Ouray County* model was updated to a HEC-RAS 2D format, and we received approval from FEMA Region 8 to use the presented flow regime, since the model is complex. Approval for the hydraulics will likely come late 2020. *San Miguel County* hydraulics comments

are being reviewed, and the flood risk review meeting is likely going to take place late 2020 in coordination with a new contractor (as the project is switching over). Contractor is coordinating with the review team to address comments, due to complicated Zone A and AE issues.

- CHAMP 3 Phase 3: *Moffat County* survey was completed in mid-August, and the hydrology submittal is awaiting approval. *Lincoln County* terrain modeling completed and task switched over to a new contractor. A kickoff meeting with the communities was held 9/4. *Phillips County* terrain submittal completed, and contractor working on the hydraulics task. The flood risk review meeting took place 10/29, and the floodplain mapping task will be submitted for official review soon. *Mineral County* will have updated hydraulics (1D and 2D) through the Town of Creede. Levee certification is currently being handled including a LOMR. *Saguache County* hydraulics were updated due to a diversion structure near Town of Crestone, and task will be finalized/completed late 2020.
- LiDAR acquisition: CWCB received \$3.4 million in a FEMA FY16 grant and \$2.2 million in FY18 for LiDAR acquisition in Colorado for future floodplain mapping and hazard assessment projects.
 - o The 2016 grant 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 final deliverables are now available by request on the Colorado Hazard Mapping website (www.coloradohazardmapping.com). The FY18 grant funded LiDAR in northeastern and southeastern corners of Colorado. Other LiDAR collection tasks that were recently completed included a project for *Montrose, Gunnison, Lake, and Chaffee Counties*. Finally, the *Southwest CO* data collection, led by the USGS, is going through the final stages of QA/QC; two thirds of the data acquired is already available in its preliminary (not final or approved) format, and we expect a final deliverable of all the project data in late 2020. The rest of the state is currently being acquired in the next, led by the USGS 3DEP program and in coordination with other entities such as DRCOG (for the Denver Metro Area data collection).
 - o DRCOG area LiDAR going through QA-QC. Projected prelim data may be available late 2020.
 - o Rest of Colorado funded for LiDAR data (including Northwest CO, San Luis Valley/San Miguel/Pitkin County area, and Eastern CO plains). More information to come soon.

Below is a map of the most recent status for LiDAR data acquired in Colorado:



(Marta Blanco Castano)

~INSTREAM FLOW ATTACHMENTS~

- 01 Instream Flow and Natural Lake Level Program Summary of Resolved Opposition Cases
- 02 Stream and Lake Protection Section De Minimis Cases
- 03 Requests for Administration of Instream Flow Water Rights

~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
- 05 Construction Fund, Special Funds and Severance Tax Funds Non-Reimbursable Investments Status Report Fiscal Year 2018-2019

**November 18-19, 2020 Board Meeting
Instream Flow and Natural Lake Level Program
Summary of Resolved Legal Protection 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. Staff had (A) filed Statements of Opposition in four cases listed below; and (B) obtained an agreement via a Letter-in-Lieu of filing a Statement of Opposition in four other cases.

A. STATEMENTS OF OPPOSITION

(1) Case No. 16CW3022 (Water Division 3) - Application of Town of Del Norte

The Board ratified this Statement of Opposition at its March 2017 meeting. Applicant requested changes of water rights and a plan for augmentation and exchange. Changes requested included changes to points of diversion, additional places of use, and types of use. Applicant’s Unopposed Motion to Dismiss Application was granted by the Court on August 6, 2020. The case was dismissed without prejudice. This case is closed on Colorado Courts E-Filing.

The CWCB holds instream flow water rights, including the following in Water Division 3 in the Alamosa-Trinchera and Rio Grande Headwaters watersheds, that could have been injured by this application:

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
83CW0051	Clear Creek	confl N & S Clear Creek	confl Rio Grande River	5 (10/1 - 4/30) 10 (5/1 - 9/30)	08/16/1982
83CW0047	North Clear Creek	1 mile below Continental Res	confl South Clear Creek	1 (10/1 - 4/30) 9 (5/1 - 9/30)	08/16/1982
94CW0057	Pinos Creek	confl Bennett Creek	hdgt Del Norte Pipeline	10 (4/1 - 8/15) 6 (8/16 - 11/30) 4.5 (12/1 - 2/29) 6 (3/1 - 3/31)	03/09/1994
83CW0040	Rio Grande	confl Squaw Creek	confl Clear Creek	20 (10/1 - 4/30) 55 (5/1 - 9/30)	08/16/1982
83CW0049	Rio Grande	confl Clear Creek	confl Trout Creek	45 (10/1 - 4/30) 90 (5/1 - 9/30)	08/16/1982
83CW0039	Rio Grande	confl Trout Creek	confl Goose Creek	65 (10/1 - 4/30) 150 (5/1 - 9/30)	08/16/1982

83CW0042	Rio Grande	confl Goose Creek	confl S Fork Rio Grande	80 (10/1 - 4/30) 160 (5/1 - 9/30)	08/16/1982
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(2) & (3) Case No. 19CW3102 & 3103 (Water Division 4) - Application of Rocking JL Ranch, LLC

The Board ratified these Statements of Opposition at its March 2020 meeting. Applicant sought an underground water right and approval of plan for augmentation in Case No. 19CW3102, a surface water right, storage water right, and appropriative right of exchange in Case No 19CW3103. 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 Upper Gunnison watershed, that could have been injured by this application:

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
84CW0395	Cimarron River	confl Fox Creek	confl Little Cimarron River	15 (11/1 - 5/31) 25 (6/1 - 10/31)	05/04/1984
84CW0398	Cimarron River	confl Little Cimarron River	confl Gunnison River	16 (1/1 - 12/31)	05/04/1984

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

- “All out-of-priority depletions owed to the CWCB’s instream flow water right decreed in Case Nos. 84CW395 and 84CW398 shall be replaced at or above the location where the depletions affect the Cimarron River.”
- “If the calling water right—including without limitation the CWCB’s instream flow water rights decreed in Case Nos. 84CW395 and 84CW398—is located downstream from the locations where the structures listed in paragraph 6. A above deplete the Cimarron River but upstream from the confluence of the Cimarron and Gunnison Rivers, the following shall occur: (1) depletions to the Cimarron River caused by pumping the Rocking JL Ranch Well Field, calculated as described above in this paragraph 6.D.iii, shall be replaced by delivering water stored in Rainbow Lake to the Cimarron River; (2) 100% of all J&N Ditch diversions not replaced by delivering water stored in Rainbow Lake to the Cimarron River shall be curtailed; (3) 100% of all inflow into Rainbow Lake shall be bypassed to the Cimarron River without being stored in Rainbow Lake; and (4) the water level in Rainbow Lake must drop commensurate with releases and/or withdrawals from Rainbow Lake for augmentation, releases and/or withdrawals from Rainbow Lake for irrigation, and evaporative losses from Rainbow Lake.”

(4) Case No. 18CW3050 (Water Division 6) - Application of Frank Vesely Revocable Trust

The Board ratified this Statement of Opposition at its March 2019 meeting. Applicant sought an absolute surface water right. 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 6 in the Lower Yampa and Upper Yampa watersheds, that could have been injured by this application:

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
W-1272(1977)	Beaver Creek	headwaters	confl Willow Creek	4 (1/1 - 12/31)	09/23/1977
W-1279(1977)	Elk River	confl NF Elk River	confl Rock Creek	65 (1/1 - 12/31)	09/23/1977
W-1331(1977)	Elk River	confl Rock Creek	confl Yampa River	65 (1/1 - 12/31)	09/23/1977
16CW3044*	Willow Creek	confl Beaver Creek	confl Lester Creek	13 (4/16 - 6/30) 3 (7/1 - 7/31)	01/26/2016
02CW0106^	Yampa River	confl Elkhead Creek	confl Green River	25 (7/1 - 8/15) 200 (8/16 - 10/31)	10/16/2002

* Increased

^ Donated/Acquired Water Right

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

- “Under section 37-92-102(3)(b), C.R.S. (2020), CWCB and Applicant recognize that the irrigation use occurring on not more than 23 acres under Applicant's Minnear Ditch water right decreed absolute herein for the diversion rates described in paragraph 10(c) above and during the diversion season described in paragraph 10(d) above was made under appropriations or practices in existence on the dates of CWCB's appropriation of the instream flow water rights on Beaver Creek, Willow Creek, and Elk Creek decreed in Case Nos. 77W1272, 77W1273, 77W1279, 77W1331, and 16CW3044. Therefore, during the diversion season and for the diversion rates described above only, the irrigation use of the Minnear Ditch water right shall not be subject to call by CWCB instream flow water rights decreed in Case Nos. 77W1272, 77W1273, 77W1279, 77W1331, and 16CW3044. The recognition of Applicant's irrigation use under section 37-92-102(3)(b), C.R.S. (2020), will not interfere with the administration of CWCB's instream flow water rights in-priority as against other water rights, and will not constitute a general subordination of the CWCB's instream flow water rights to any other junior water rights.”

B. Letters-in-Lieu

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. 20CW3053 (Water Division 1) - Application of City of Boulder and County of Boulder

During the April 2020 Water Court Resume Review, CWCB staff identified concerns regarding potential injury to CWCB's instream flow water rights decreed in Case Nos. W-7636(1974), 79CW0308, 90CW0193, and 94CW0018 on Boulder Creek; W-9375(1978) on Middle Boulder Creek; 86CW0300 on South Fork Middle Boulder Creek; 94CW0019 and 94CW0020 on North Boulder Creek; and 95CW0257 on Jasper Creek. This case was resolved with CWCB by a letter agreement, dated September 2, 2020, 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.

"CWCB holds several instream flow water rights in the exchange reaches decreed in this case. When any of the following water rights are not met and being administered, the relevant exchange shall be curtailed to the extent necessary to prevent injury: Boulder, North Boulder, Middle Boulder, South Fork Middle Boulder, and Jasper Creeks decreed in Case Nos. 74-W-7636, 79CW308, 90CW193, 94CW18, 94CW20, 94CW19, 78-W-9375, 86CW300, and 95CW257, respectively."

(2) Case No. 20CW3034 (Water Division 2) - Application of William Marshall and Deborah McKnight, Linda K. Reinhold Rev. Trust, and Todd and Belinda Tipton

During the July 2020 Water Court Resume Review, CWCB staff identified concerns regarding potential injury to CWCB's instream flow water rights decreed in Case No. 79CW0113 on Frenchman Creek. This case was resolved with CWCB by a letter agreement, dated September 30, 2020, 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 original point of diversion will no longer be used."

(3) Case No. 20CW3041 (Water Division 4) - Application of Dos Rios Ranch Ltd

During the June 2020 Water Court Resume Review, CWCB staff identified concerns regarding potential injury to CWCB's instream flow water rights decreed in Case Nos. 80CW0103 on Cement Creek, and 83CW0228 and 83CW0230 on the East River. This case was resolved with CWCB by a letter agreement, dated September 2, 2020, 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.

Application paragraph 39.D.

"Local call: In the event of a local call (including a call by CWCB for its instream flow water rights on the East River and Cement Creek decreed in Case Nos. 83CW228, 83CW230, and 80CW103, respectively) above Blue Mesa Reservoir, Applicant will curtail all diversion at the Smithers Spring (which will run through the ponds back to Cement Creek without filling the ponds) and Smithers Pump and all filling of the Smithers Pond Nos. 1 and 2. The Smithers Pond Nos. 1 and 2 water levels will then be allowed to drop commensurate with evaporation."

(4) Case No. 20CW3083 (Water Division 5) - Application of West Divide Water Conservancy District

During the June 2020 Water Court Resume Review, CWCB staff identified concerns regarding potential injury to CWCB's instream flow water rights decreed in Case No. 80CW0321 on Rifle Creek. This case was resolved with CWCB by a letter agreement, dated August 31, 2020, 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.

1. "CWCB holds an instream flow water right on Rifle Creek, decreed in 80CW321, which was decreed prior to the filing of this Case No. 20CW3083 for a change of water rights in Pioneer Ditch."
2. "Consumptive use credits may only fully be utilized when the full 1.8 cfs water right is physically and legally available at the original headgate. When less than 1.8 cfs is physically and legally available at the headgate, the consumptive use credits should be reduced on a pro-rata basis."

**Director's Report Attachment – November 18-19, 2020, CWCB Meeting
Stream and Lake Protection Section De Minimis Cases**

The following table summarizes an application that has the potential to injure the Board's instream flow water rights, but the impact is considered de minimis. In this case, the cumulative impact to the Board's right is less than 1%. Pursuant to ISF Rule 8(e) (the de minimis rule), staff has not filed a Statement of Opposition in this case and has provided the required notification to the Division Engineer and applicant.

Applicant Case No.	Water Division	Applicant	Waterbody/ CWCB Case No.	ISF Flow Amount (cfs/date)	Individual Injury (%)	Cumulative Injury (%)	Count
20CW3037	6	Mystic Canyon Ranch LLC	Miller Creek 77W3652G	10 (1/1 - 12/31)	0.00550 0.00620	0.00550 0.00620	1
20CW3037	6	Mystic Canyon Ranch LLC	Elk River 77W1331	65 (1/1 - 12/31)	0.00090 0.00100	0.12893 0.11108	6



COLORADO

**Colorado Water
Conservation Board**

Department of Natural Resources

1313 Sherman Street
Denver, CO 80203

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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: November 18-19, 2020 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:

- 1.15% - Agricultural
- 1.60% - Low-income Municipal
- 1.80% - Middle-income Municipal
- 2.05% - 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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Department of Natural Resources

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Jared Polis, Governor
Dan Gibbs, DNR Executive Director
Rebecca Mitchell, CWCB Director

TO: Colorado Water Conservation Board Members

FROM: Matthew Stearns, P.E., Project Development

DATE: November 18-19, 2020 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					
<i>No prequalified projects at this time</i>					
Total					\$ -



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. Projects are also identified if they have a Health/Safety (*), Economic Impact (†), or Federal Match (‡) component.

BORROWER	PROJECT NAME	POTENTIAL LOAN AMOUNT
South Platte		
NISP Participants	NISP	\$750,000,000
Woods Lake Mutual Ditch Company	Culvert Replacement	\$150,000
Town of Kersey	Water Line Project	TBD
Riverside Reservoir and Land Company	Ditch Rehabilitation	\$250,000
Town of Bennett	Raw Water Tank	\$500,000
Evergreen Metro District	Evergreen Dam Enlargement	TBD
Left Hand Water District	Dry Creek Reservoir	TBD
Roxborough Water & Sanitation District	Reservoir Rehabilitation	TBD
Shawnee Water Consumers Association	Reservoir Rehabilitation	\$200,000
Boulder and White Rock Ditch & Res. Co.	Reservoir Dredging	TBD
Western Mutual Ditch Company	Reservoir Dredging	TBD
Bergen Ditch and Reservoir Company (*)	Reservoir Rehabilitation	TBD
Louviers Water and Sanitation District	Regional Connection	TBD
City of Fort Collins	Irrigation Ditch Piping	\$20,000,000
City of Fort Collins	Halligan Reservoir Enlargement	\$120,000,000
Northern Colorado WCD	Windy Gap Firming (increase)	\$40,000,000
Cherry Creek Water Project Authority	Walker Pit	\$14,500,000
City of Loveland	Reservoir Enlargement	TBD
SPROWG Participants	SPROWG	\$1,800,000,000
City of Milliken (*)	Hillsboro Dam Rehabilitation	\$15,000,000
Colorado Parks and Wildlife (*)	Tarryall Dam Rehabilitation	\$5,000,000
Dave Miller Mutual Ditch Company	Ditch Piping Project	\$150,000
Standley Lake Operating Committee	Reservoir Expansion	TBD
Switzerland Park HOA	Reservoir Rehabilitation	\$300,000
Danna Ortiz	Knouth Reservoir Rehabilitation	\$3,000,000
Subtotal		\$2,769,050,000



BORROWER	PROJECT NAME	POTENTIAL LOAN AMOUNT
Arkansas		
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
Deweese Ditch and Reservoir Co. (+)	Reservoir Enlargement	TBD
Holbrook Ditch Company	Reservoir Enlargement	TBD
Lake County	New Reservoir	TBD
Catlin Canal Company	Canal System Improvement	\$1,500,000
Empire Lodge HOA	Water Rights Purchase	\$700,000
Lower Arkansas WCD	New Storage Account	TBD
Donala Water and Sanitation District	Ditch Construction	TBD
City of Colorado Springs	Irrigation System Improvements	\$3,500,000
Town of Victor (*)	Reservoir Rehabilitation	TBD
Mesa McKenna Mutual Ditch Company	Ditch Piping Project	TBD
Town of Avondale (*)	New Well	TBD
Round Mountain Water & Sanitation	New Reservoir	TBD
Ordway, Town of	Reservoir Rehabilitation	TBD
Subtotal		\$19,500,000
San Miguel/Juan		
Town of Bayfield	Ditch Piping Project	\$500,000
Redmesa Reservoir and Ditch Co. (*)	Redmesa Reservoir Enlargement	\$8,500,000
City of Cortez	Distribution System (Loss Prevention)	\$10,000,000
Webber Ditch Company (‡)	Ditch Piping Project	TBD
Pagosa Area Water and Sanitation Dist. (*)	Raw Water Pipeline Rehabilitation	TBD
Ratliff and Root Ditch Company (‡)	Ditch Piping Project	\$1,000,000
Subtotal		\$20,000,000
Colorado		
Town of Breckenridge (*, ‡)	Goose Pasture Tarn Dam	\$10,000,000
Orchard Mesa Irrigation District	Lateral Piping	\$300,000
Silt Water Conservancy District	Harvey Gap Reservoir	\$300,000
Middle Ditch	Ditch Piping Project	TBD
New Multa Trina Ditch Company (‡)	Ditch Piping Project	TBD
Horse Pasture HOA	Ditch Piping Project	\$100,000
Orchard Mesa Irrigation District	Hydropower Plant	\$1,500,000
Grand Valley Water Users Association	Hydropower Plant	\$1,500,000
Perry Ranch	Taponas Project Phase 1	\$75,000
Gunther Covers	Christenson Dam	TBD
Subtotal		\$13,775,000



BORROWER	PROJECT NAME	POTENTIAL LOAN AMOUNT
Gunnison		
Gunnison County Electric	Taylor Park Hydro	\$1,000,000
Duke Ditch Company	Ditch Piping Project	\$400,000
Bostwick Park Water Conservancy District	Dam Construction	TBD
Kendall Reservoir Company	Reservoir Rehabilitation	\$140,000
Orchard City Irrigation District (‡)	Fruit Growers Reservoir Rehab	\$560,000
Subtotal		\$2,100,000
North Platte		
Colorado Parks and Wildlife (*)	North Michigan Creek Reservoir	\$6,000,000
Subtotal		\$6,000,000
Rio Grande		
Manassa Land & Irrigation Co.	Ditch Rehabilitation	\$6,000,000
Baca Grande WSD	Water Rights Purchase	\$1,000,000
Sanchez Ditch and Reservoir Co.	Dam Rehabilitation	\$4,000,000
Rio Grande WCD - Subdistrict #1	Water Rights Purchase	\$5,000,000
Trinchera Water Conservancy District	Water Rights Purchase or Lease	\$2,000,000
Town of Center	Water Meter Project	\$200,000
San Luis Valley WCD (†)	Shaw Reservoir Purchase	TBD
Colorado Parks and Wildlife	Alberta Park Dam Rehabilitation	\$4,000,000
Subtotal		\$22,200,000
Yampa		
Town of Oak Creek (*)	Reservoir Rehabilitation	\$5,600,000
Rio Blanco WCD	Wolf Creek Reservoir	\$100,000,000
Bear River Reservoir Company	Stillwater #1 Dam Rehabilitation	TBD
Subtotal		\$105,600,000





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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: November 18-19, 2020 Board Meeting

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

The CWCB Loan Program has Substantially Completed (19) projects in Calendar Year 2020 as shown in Table 1. There are currently (47) projects authorized to receive loan funding totaling \$395 million. There are (33) projects currently under contract and in the Design/Construction phase totaling \$186 million. The attached spreadsheet summarizes the status of all loan projects. A detailed description about each project is provided under Water Project Loan Program on the CWCB website cwcb.colorado.gov

TABLE 1

	Borrower	Project	County	Loan Amount	Complete
1	Fort Lyon Canal Company	Adobe Creek Dam Rehab	Bent	\$8,053,081	2/1/2020 (a)
2	Walsenburg, City of	City Lake Dam Rehab & Enlargement	Huerfano	\$6,889,210	2/1/2020 (b)
3	Tunnel Water Company	Laramie-Poudre Tunnel Rehab	Larimer	\$1,654,041	2/1/2020
4	Roxborough Water & Sanitation District	Ravenna Development Interconnect	Douglas	\$1,464,050	2/1/2020
5	Big Elk Meadows Association	Emergency Raw Water Storage	Boulder/Larimer	\$1,729,427	2/1/2020 (c)
6	Bessemer Irrigation Ditch Co	Landslide Stabilization & Lining	Pueblo	\$903,602	4/1/2020
7	Dominion Water & Sanitation	Chatfield Reallocation Purchase	Douglas	\$4,191,989	4/1/2020 (d)
8	Consolidated Ditch & Headgate	Diversion & Headgate Project	Rio Grande	\$756,129	4/1/2020
9	Republican River WCD	Surface Water Rights Purchase	Yuma	\$5,570,150	5/1/2020
10	Arabian Acres	Automatic Meter Implementation	Teller	\$214,459	5/1/2020
11	San Luis Valley Canal Company	Canal Headgate Construction	Rio Grande	\$198,428	6/1/2020
12	Church Ditch Water Authority	Ditch Systems Improvements	Jefferson	\$2,236,657	6/1/2020
13	Lower Arkansas Water Management Association	West Farm Gravel Pit Storage Purchase	Prowers	\$3,556,598	7/1/2020 (e)
14	Firestone, Town of	Storage Development & Water Rights Purchase	Weld	\$5,964,859	7/1/2020 (f)
15	CCWCD, Well Augmentation Subdistrict	Shores Lake Pond C Infrastructure Improvement	Weld	\$2,367,440	8/1/2020 (g)
16	Centennial Irrigating Ditch Co	Centennial Diversion Replacement	Rio Grande	229,060	8/1/2020
17	Missouri Heights Mountain Meadow Irrigation Company	Ditch Piping Phase B	Garfield	\$178,971	8/1/2020
18	Orchard Ranch Ditch Company	Orchard Ranch Ditch Pipe Project	Delta	\$136,677	9/1/2020
19	Schneider Ditch Company	Diversion Structure Replacement	Logan	\$1,161,902	10/1/2020
			Total	\$47,456,730	

Calendar Year - 2020 has added and preserved 90,226 acre-feet of reservoir storage; (a) 81,692; (b) 651; (c) 108; (d) 500; (e) 1,683; (f) 1,092; (g) 4,500



Outlet Tower and Gates



Construction of Mud Mat and Outlet Terminal Structure



Project Description

Adobe Creek Reservoir (also known as Blue Lake) is owned by the Fort Lyon Canal Company (Company). The original dam was 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 Adobe Creek Reservoir water is used to irrigate approximately 93,000 acres of land in Bent, Otero, and Prowers County. The new dam height is 32.3 feet and has a crest length of 7,375 feet.

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 and outlet deficiencies in the dam's foundation and deteriorated conditions in the 112-year-old, vitrified clay outlet works. Through this loan, the Company constructed 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.

Construction was complete in 2019 with temporary storage approval in June 2019 and a Final Acceptance of Construction by Colorado Dam Safety in November 2019.

P R O J E C T D A T A		
<i>Sponsor:</i> Fort Lyon Canal Company	<i>County:</i> Bent	<i>Water Source:</i> Arkansas River
<i>Type of Project:</i> Dam Rehabilitation		<i>Board Approval Date:</i> September 2017
<i>Terms of Loan:</i> 1.50% for 40 years (Original) \$8,181,000 (Final) \$8,053,081.83		
<i>Terms of WSRF Grant:</i> (Original) \$1,100,000 (Final) \$1,071,714.28		
<i>Design Engineer:</i> W.W.Wheeler and Associates, Inc.		
<i>Contractor:</i> Moltz Construction, Inc.		



Outlet Works Construction



Outlet Valve Tower



Auxiliary Spillway



Upstream Slope of Dam

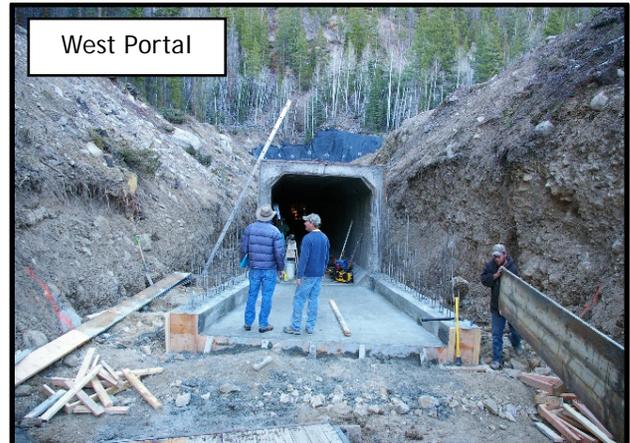
Photos show construction and completion of Walsenburg's City Lake Dam Project.

Project Description

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. Its average annual water delivery is 730 acre-feet. The original dam was 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 Colorado Dam Safety imposed 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 needed the full storage capacity of City Lake to adequately supply their water treatment plant and to ensure future water supplies.

Elements of the Project included 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 increased storage by 120 acre-feet by raising the dam embankment three feet. Construction rehabilitation and enlargement was completed in 2019.

P R O J E C T D A T A		
<i>Sponsor:</i> City of Walsenburg	<i>County:</i> Huerfano	<i>Water Source:</i> Cucharas River
<i>Type of Project:</i> Reservoir Rehabilitation		<i>Board Approval Date:</i> July 2017
<i>Terms of Loan:</i> 2.0% for 30 years	<i>(Original)</i> \$6,889,210	<i>(Final)</i> \$6,889,210
<i>Terms of Grant:</i> <i>(Original)</i> \$804,000 <i>(Final)</i> \$804,000		
<i>Design Engineer:</i> RJH Consultants, Inc.		
<i>Contractor:</i> Kirkland Construction		



Photos show West Portal and East Portal rehabilitation of the Laramie-Poudre Tunnel Project.

Project Description

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 its original construction in 1910. The interior timber cribbing and concrete lining were at or near the end of their useful service lives and the slope steepness at the portals made it difficult for maintenance access. The east portal's (outlet) concrete energy attenuation structure was resurfaced many times before and was heavily spalled, near failure. The west portal construction rehabilitation was completed in 2016. Construction rehabilitation on the east portal was completed in 2019.

P R O J E C T D A T A		
<i>Sponsor:</i> The Tunnel Water Company	<i>County:</i> Larimer	<i>Water Source:</i> Laramie River/Cache La Poudre River
<i>Type of Project:</i> Water Supply and Storage		<i>Board Approval Date:</i> September 2015
<i>Terms of Loan:</i> 2.55% for 30 years (Original) \$1,717,000 (Final) \$1,654,041.46		
<i>Design Engineer:</i> Golder Associates, Inc.		
<i>Contractor:</i> Rock Solid Solutions and Connell Resources, Inc.		



COLORADO

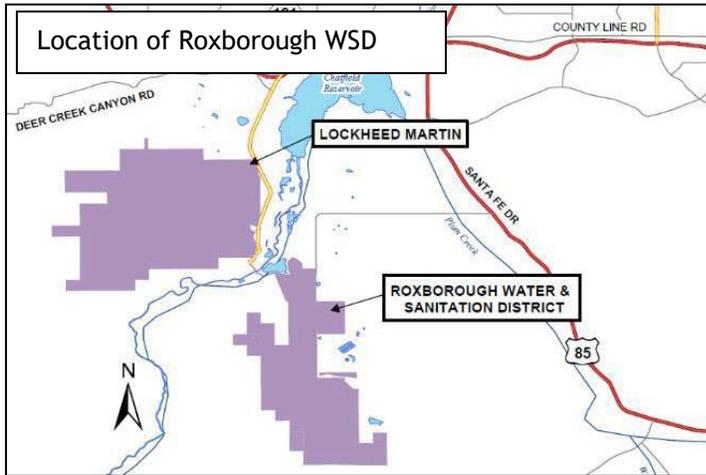
Colorado Water Conservation Board

Department of Natural Resources

Ravenna Development Interconnect

Roxborough Water and Sanitation District

Substantially Complete February 1, 2020



Project Description

The Roxborough Water and Sanitation District was established in 1971 and provides water and sewer service within its service area in northwest Douglas County. Ravenna sought inclusion into the District as a means to replace its non-renewable water supply—non-tributary groundwater wells—with a renewable supply. In the summer of 2017, the District installed a single emergency interconnect with Ravenna and has been the sole source of potable water since. The inclusion agreement required that in addition to the emergency interconnect, two additional interconnects between the District and Ravenna be construction in order to provide a permanent and reliable water supply to Ravenna. This project undertook the construction of those new interconnects. In addition to the new interconnects construction included new and relocated pressure reducing valves to keep pressures throughout the development as close to existing conditions as possible.

P R O J E C T D A T A		
Sponsor: Roxborough Water and Sanitation District	County: Douglas	Water Source: South Platte River
Type of Loan: Municipal Water Supply System New	Board Approval Date: July 2018	
Loan Terms: 3.15% for 30 years (Original) \$1,584,690		(Final) \$1,464,050.02
Design Engineer: TST Infrastructure, LLC		
Contractor: Redline Pipeline, LLC		



Mirror Lake and Intake Structure



Willow Lake and Intake Structure



Rainbow Lake Reservoir

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. 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 was to restore the community’s water supply by reconstructing five dams and two monitoring stations. During the next six years the community secured the funding and technical expertise to reconstruct the destroyed infrastructure. The lakes have been restored with new infrastructure and can now be utilized for community water purposes.

P R O J E C T D A T A		
<i>Sponsor:</i> Big Elk Meadows Association	<i>County:</i> Boulder/Larimer	<i>Water Source:</i> West Fork of the Little Thompson
<i>Type of Loan:</i> Reservoir Rehabilitation		<i>Board Approval Date:</i> January 2014
<i>Loan Terms:</i> 0.0% for 6 years, 2.75% for 27 years (Original) \$2,020,000 (Final) \$1,729,427.24		
<i>Design Engineer:</i> GEI Consultants, Inc.		
<i>Contractor:</i> Zak Dirt, Inc.		



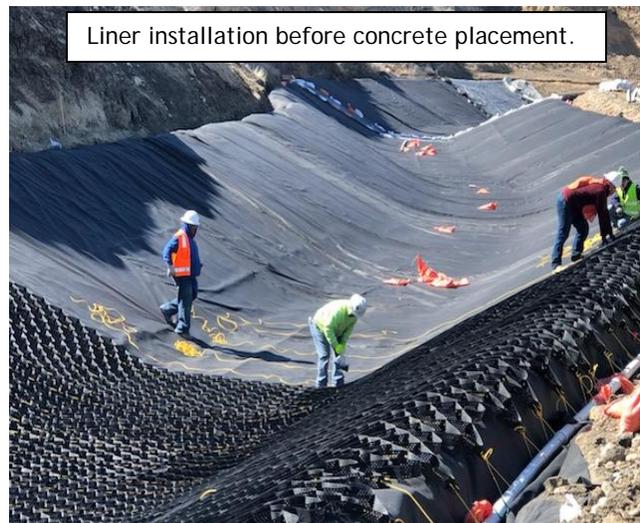
Landslide Stabilization



Landslide stabilization complete.



Lined ditch section complete.

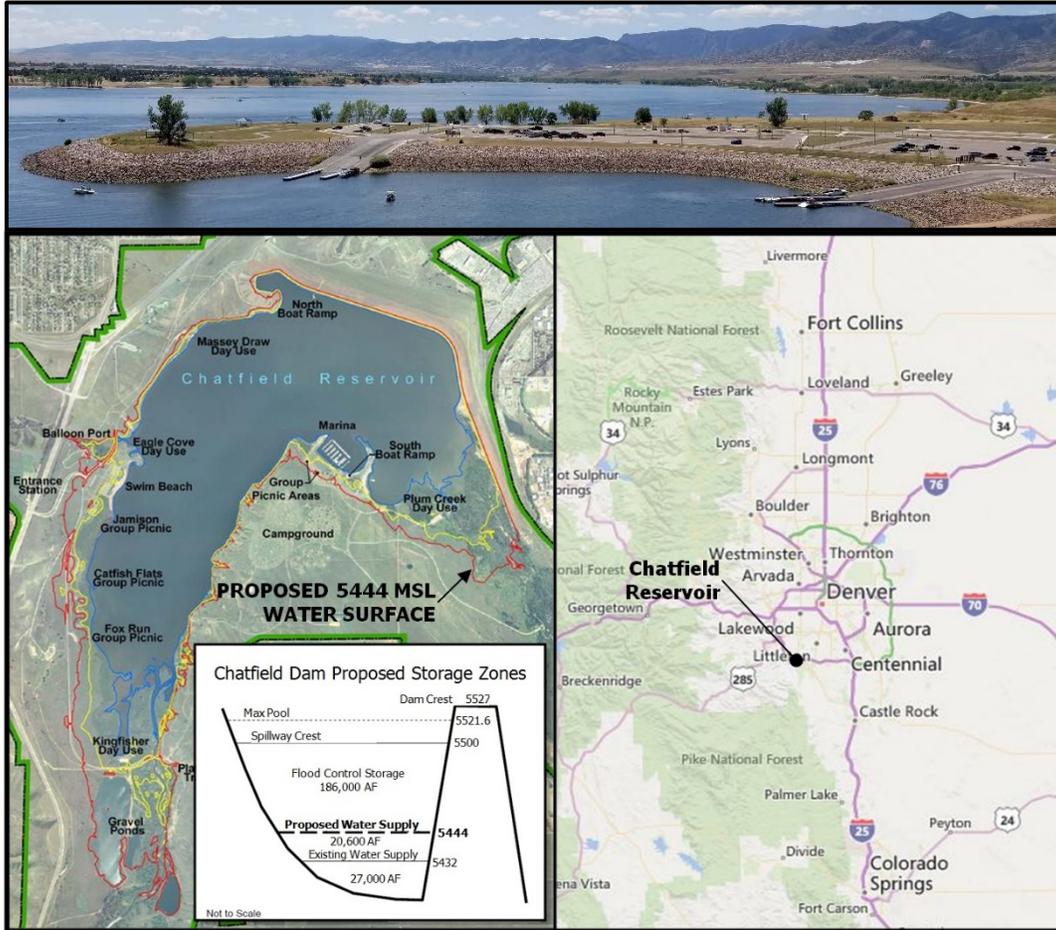


Liner installation before concrete placement.

Project Description

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 began in January 2018 and both construction stages were complete March 2019.

P R O J E C T D A T A		
<i>Sponsor:</i> Bessemer Irrigating Ditch Company	<i>County:</i> Pueblo	<i>Water Source:</i> Arkansas River
<i>Type of Project:</i> Ditch Rehabilitation	<i>Board Approval Date:</i> January 2018	
<i>Terms of Loan:</i> 1.65% for 20 years (Original) \$909,000 (Final) \$903,602.24		
<i>Design Engineer:</i> Kidd Engineering and Construction Management Services, Inc.		
<i>Contractor:</i> Coggins and Sons, Inc. and K.R. Swerdfeger Construction, Inc.		



Project Description

The Dominion Water & Sanitation District is a wholesale water district participating in the Chatfield Reallocation Project in order to increase the permanence and reliability of its water supply. The Project will reallocate a total of 20,600AF of storage space from the flood control pool into a multipurpose pool. The District became a participant in the Project by purchasing 500AF of the reallocated storage and is proportionally responsible for all Reallocation Project cost.

The US Army Corps of Engineers issued the Project’s Record of Decision on May 29, 2014. The Selected Alternative recommended in the EIS provides 20,600 acre-feet of storage in the Chatfield Reservoir for M&I and agriculture water supplies, environmental restoration, and recreation and fishery habitat protection and enhancement. The District purchased shares owned by the CWCB at the current overall Reallocation Project cost estimate of \$8,300.97 per AF (\$171 million total). Use of storage is anticipated in the spring 2020.

P R O J E C T D A T A		
Sponsor: Dominion Water & Sanitation District	County: Douglas	Water Source: South Platte River & Plum Creek
Type of Loan: Reservoir Storage		Board Approval Date: March 2019
Loan Terms: 3.30% for 30 years (Original) \$4,191,989.85 (Final) \$4,191,989.85		
Design Engineer: Various		
Contractor: Various		



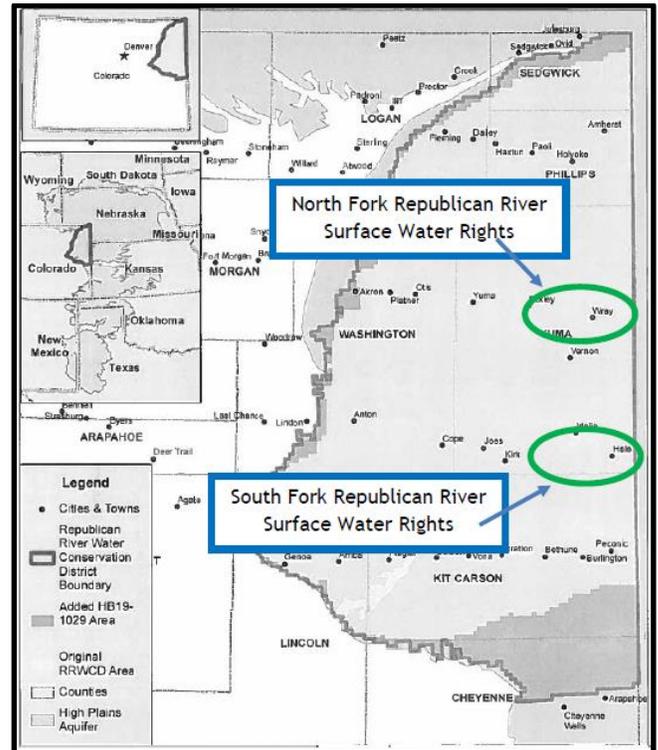
Project Description

The Consolidated Ditch Implementation Project (The Project) was a diversion dam and headgate replacement project completed through a partnership with the Consolidated Ditch and Headgate Company and the Rio Grande Headwaters Restoration Project (RGHRP). The goal of the Project was to replace the aging and inefficient Consolidated Ditch and Pace Ditch diversion dam and headgates, while improving streambank stability and riparian condition throughout the project area. The Project included the construction of a new concrete diversion dam, concrete headgate, trash rack, sluice gate, and sluice channel for the Consolidated Ditch Company, as well as a new concrete headgate for the Pace Ditch, which shares the diversion point. In addition to replacing the infrastructure, the Project included the stabilization of 800 feet of streambank in the Project area. Throughout project implementation, the RGHRP gave tours, developed outreach materials, and provided updates to community groups as part of outreach and education. The RGHRP will continue to give tours and complete long-term monitoring to ensure that the project objectives stand the test of time. Benefits of the Project include improved diversion efficiency and reduced maintenance, enhanced water quality, improved riparian condition, increased capacity for sediment transport, improved aquatic and wildlife habitat, improved public safety and recreation opportunity, and increased public involvement in water improvement activities.

P R O J E C T D A T A		
<i>Sponsor:</i> Consolidated Ditch and Headgate Company	<i>County:</i> Rio Grande	<i>Water Source:</i> Rio Grande
<i>Type of Loan:</i> Ditch Rehabilitation		<i>Board Approval Date:</i> May 2017
<i>Loan Terms:</i> 1.80% for 30 years (Original) \$1,010,000		(Final) \$756,129.65
<i>Design Engineer:</i> Natural Resources Conservation Service		
<i>Contractor:</i> Robins Construction, LLC		



Surface Water Rights Purchase
 Republican River Water Conservation District
 Substantially Complete May 1, 2020

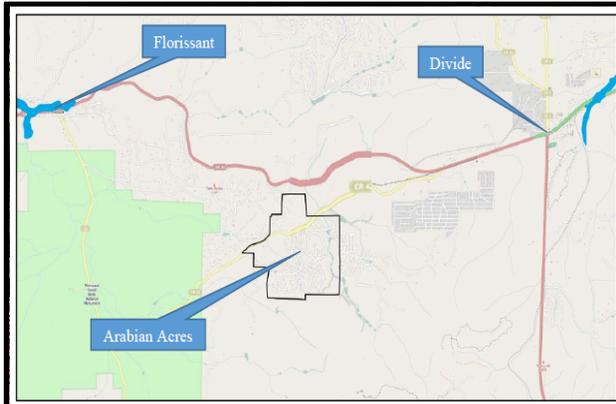


Project Description

In December 2002, Colorado entered into a Stipulation with Kansas and Nebraska to address the U.S. Supreme Court Case of Kansas v. Nebraska and Colorado. Since then, the State of Colorado had exceeded its annual allocations of beneficial consumptive use under the Republican River Compact (Compact) by an average of 11,000 acre-feet per year. In 2004, the State of Colorado established the Republican River Water Conservation District (District) to assist with Compact compliance. Since, the District has actively sought to acquire senior surface water rights.

This Project included the purchase of senior surface water rights in both the North Fork and South Fork of the Republican River in order to assist the State in complying with the Compact by increasing stream flows. The Project provided multiple benefits that included preventing curtailment of existing water rights and wells due to noncompliance, avoiding a reduction of groundwater-irrigated acreage, furthering a collaborative approach to Endangered Species Act compliance, and minimizing costly litigation with Kansas and Nebraska.

PROJECT DATA		
Sponsor: Republican River Water Conservation District	County: Yuma	Water Source: North Fork and South Fork of the Republican River
Type of Project: Water Rights Purchase		Board Approval Date: November 2019
Terms of Loan: 1.20% for 20 years (Original) \$5,570,150.00 (Final) \$5,570,150.00		
Engineer: Randy Hendrix, P.E., Hendrix Wai Engineering, Inc.		
Appraiser: Kevin McCarty, McCarty Land & Water Valuation, Inc.		



Project photos of Arabian Acres automatic meter installation and connection to distribution system.

Project Description

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 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 installed an automatic meter reading (AMR) system, new meter pits, installed hardware, a drive-by meter read base station, and software. This Project helped improve the District’s operational efficiency by upgrading its water system. The meters help accurately measure the amount of water usage and help quantify the system water loss. In addition to the loan, the District received a DOLA Energy Impact Assistance Fund Grant which resulted in needing approximately 50% of the CWCB loan for project costs.

P R O J E C T D A T A		
<i>Sponsor:</i> Arabian Acres Metropolitan District	<i>County:</i> Teller	<i>Water Source:</i> Groundwater
<i>Type of Project:</i> Water Meter Implementation		<i>Board Approval Date:</i> September 2018
<i>Terms of Loan:</i> 1.85% for 10 years (Original) \$404,000.00 (Final) \$214,459.76		
<i>Design Engineer:</i> AquaWorks DBO, Inc.		
<i>Contractor:</i> Velocity Constructors, Inc.		



Before



After



Project Description

The San Luis Valley Canal Headgate Construction Project was a headgate replacement, streambank stabilization, and riparian restoration project completed through a partnership with the San Luis Valley Canal Company and the Rio Grande Headwaters Restoration Project. The goal of the Project was to replace the aging and inefficient San Luis Valley Canal headgate and improve streambank stability and riparian condition throughout the project area. The Project included the construction of a new concrete headgate for SLVCC, as well as river channel shaping for increased capacity. In addition to replacing the infrastructure, the Project included the stabilization of 750 feet of streambank in the Project area. Benefits of the Project include improved diversion efficiency and reduced maintenance, enhanced water quality, improved riparian condition, increased capacity for sediment transport, improved aquatic and wildlife habitat, improved public safety, and increased public involvement in water improvement activities.

P R O J E C T D A T A		
<i>Sponsor:</i> San Luis Valley Canal Company	<i>County:</i> Rio Grande	<i>Water Source:</i> Rio Grande
<i>Type of Loan:</i> Headgate Replacement		<i>Board Approval Date:</i> May 2018
<i>Loan Terms:</i> 1.45% for 20 years (Original) \$303,000.00 (Final) \$198,428.30		
<i>Design Engineer:</i> Riverbend Engineering, LLC		
<i>Contractor:</i> Cooley & Sons Excavating Inc.		



Project photos of Leyden Flushing Structure



Project photos of Headgate 53 Retaining Wall



Project photos of Area 15 Lining

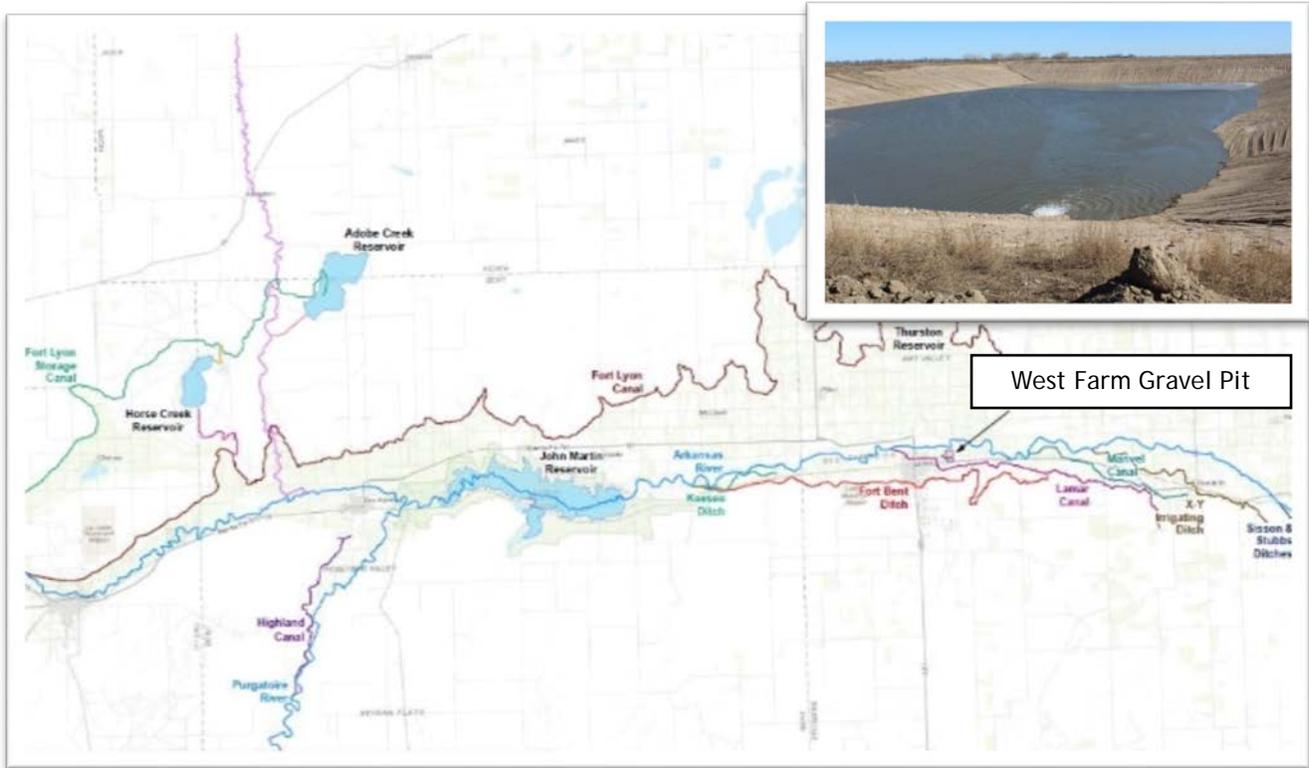
Project Description

There are 97 Contractual Users who receive water from Church Ditch. The 2009 Master Plan identifies areas in need of maintenance, modification, or replacement. Since 2009, the Church Ditch Water Authority (CDWA) has been completing the identified maintenance and replacement projects as time and budgets allow. The following five projects were identified as the highest priority for CDWA:

- (1) the Leyden Creek Flushing Structure work included replacement of the aging structure and improving efficiency, safety, and maintenance accessibility;
- (2) the Headgate 53 Retaining Wall project involved repairing a concrete block wall installed as an emergency fix due to the 2013 flood;
- (3) the Area 15 Ditch Lining rehabilitation included lining a ditch section where dewatering by new homes and businesses adjacent to the ditch increased water loss in the ditch;
- (4) the Ford Street Siphon project addressed a 75-year old culvert that was thought to be near the end of its expected lifespan; and
- (5) the Legacy Farms Culvert replacement of an undersized culvert created backwater.

The CDWA concluded that the Ford Street Siphon does not require replacement. The siphon is in good working condition and only required new grout which was applied and paid for by CDWA in 2020. The CDWA also decided to remove the Legacy Farms Culvert and not replace it, but leave the ditch open. The Area 15 Ditch Lining was reduced in length resulting in additional cost savings.

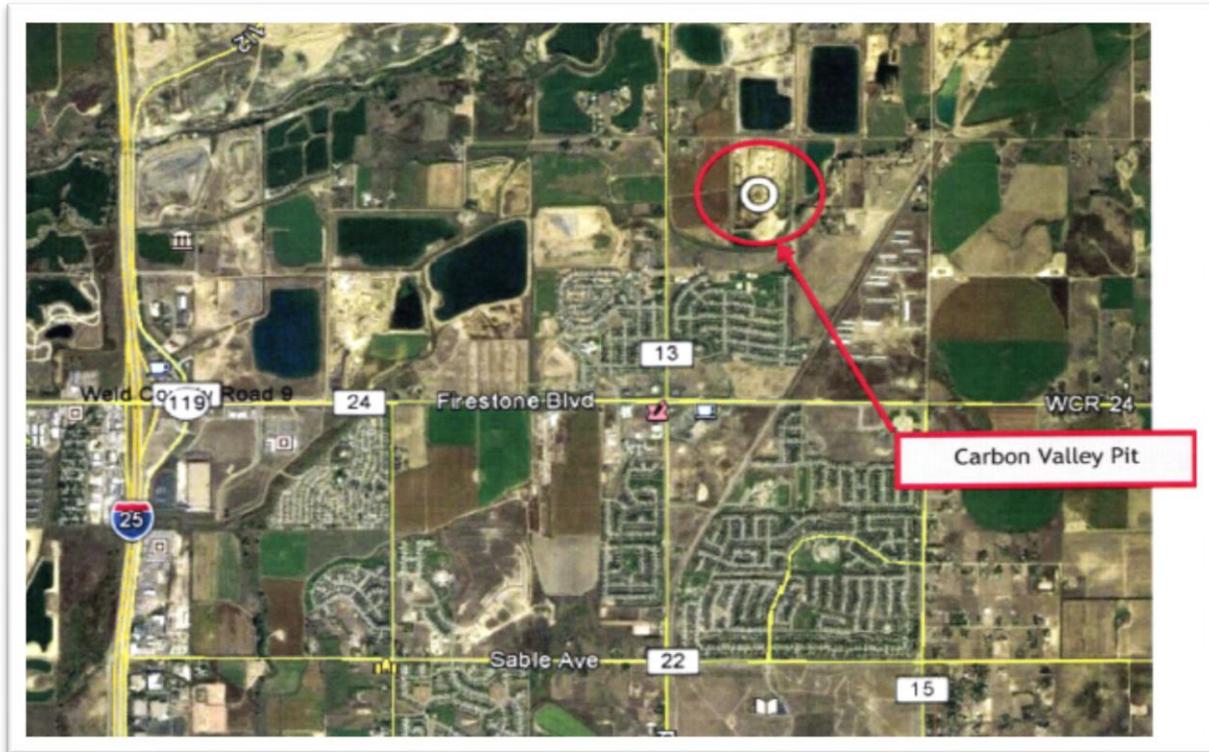
P R O J E C T D A T A		
<i>Sponsor:</i> Church Ditch Water Authority	<i>County:</i> Jefferson	<i>Water Source:</i> Clear Creek
<i>Type of Project:</i> Ditch Systems Improvements		<i>Board Approval Date:</i> July 2017
<i>Terms of Loan:</i> 3.00% for 30 years	<i>(Original)</i> \$3,615,800.00	<i>(Final)</i> \$2,236,657.28
<i>Design Engineer:</i> Ecological Resource Consultants, Inc.		
<i>Contractor:</i> Merdiam Partners, LLC - JL Melton Construction, Inc. - Lillard and Clark Construction Co., Inc.		



Project Description

The West Farm Gravel Pit (WFGP) storage reservoir is located downstream of the City of Lamar on the Arkansas River. The Lower Arkansas Water Management Association (LAWMA) purchased approximately 1,638 acre-feet of open water storage capacity in the WFGP to store fully consumable water for use in LAWMA’s decreed plan for augmentation, its annual Arkansas River Use Rules replacement plan (Rule 14 Plan), LAWMA-operated Compact Compliance Plans under Rule 10 of the Compact Rules Governing improvements to Surface Water Irrigation Systems in the Arkansas River Basin in Colorado (Rule 10 Plan), and substitute water supply plans that include LAWMA shares as a source of replacement supply. Project benefits included an increased average annual allocation to a common share from 72% to 85% and a reduction in the number of dry year allocations. LAWMA was approved for a Water Plan Grant to fund a portion of this project from the water Supply and Storage grant program. A February 2015 final letter report prepared by the State Engineer’s Office determined the WFGP slurry wall was lined to their design standard. LAWMA completed the water storage purchase in June 2020.

P R O J E C T D A T A		
<i>Sponsor:</i> Lower Arkansas Water Management Association	<i>County:</i> Prowers	<i>Water Source:</i> Arkansas River
<i>Type of Project:</i> Reservoir Storage	<i>Board Approval Date:</i> July 2019	
<i>Terms of Loan:</i> 2.45% for 30 years	<i>(Original)</i> \$3,630,950.00	<i>(Final)</i> \$3,556,598.35
<i>Terms of Water Plan Grant:</i> <i>(Original)</i> \$1,000,000.00		<i>(Final)</i> \$993,211.02
<i>Engineer:</i> Randy Hendrix, P.E., Hendrix Wai Engineering, Inc.		
<i>Appraiser:</i> Gregory T. Gerken, MAI, AI-GRS, Hegarty & Gerken, Inc.		



Project Description

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 provides water and wastewater services to approximately 12,110 residents. The purpose of the project is to provide a water storage to help meet the current and the future non-potable water needs. The Town plans for approximately two times the demand, or 2,000 acre-feet (AF) of non-potable storage. They purchased the Carbon Valley Resource Pit and acquired 1,219 AF of lined storage and 1.41 shares of Rural Ditch Company with an average annual yield of 105 AF/share. Also purchased was 3.97 of preferred shares and 6.667 of common shares of Lower Boulder Reservoir and Ditch Company. A common share average annual yield is approximately 11.5 AF/share and a preferred share average annual yield is approximately 34.5 AF/share. The water purchased may be used to fill the reservoir. Construction is planned for the Fall of 2020. The Town has acquired a revenue bond to pay off the CWCB loan balance and complete the project. The CWCB loan allowed for the purchase of the cornerstone elements of the non-potable irrigation system.

P R O J E C T D A T A		
Sponsor: Town of Firestone	County: Weld	Water Source: St. Vrain River and Boulder Creek
Type of Project: Reservoir Storage and Water Rights Purchase		Board Approval Date: November 2016
Terms of Loan: 2.35% for 20 years	(Original) \$10,000,000.00	(Final) \$5,964,859.01
Engineer: David B. Lindsay, P.E., Colorado Civil Group, Inc. Engineering Consultants		



Outlet Structure to St. Vrain River



Variable Frequency Drive and Switch Gear



Pond C Column Pump

Project Description

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. The Well Augmentation Subdistrict (WAS) of the Central Colorado Water Conservancy District (CCWCD) had been storing water at the site since 2008. In order to make releases to the St. Vrain River for augmentation needs, temporary floating pontoon pumps were utilized. Prior to the project, Shores Lakes had all the infrastructure necessary for efficient operation except for the inlet and outlet structures and a column pump for Pond C.

In 2018 WAS retained Deere & Ault to design the necessary infrastructure and Concrete Works of Colorado undertook the site work in 2019 and 2020. The completed project provides WAS with operational flexibility including the ability to deliver water by gravity to the St. Vrain River; a unique feature of a gravel pit augmentation pond. The whole Shores Complex is now well designed and an efficiently operated storage vessel.

P R O J E C T D A T A		
<i>Sponsor:</i> Well Augmentation Subdistrict	<i>County:</i> Weld	<i>Water Source:</i> South Platte River
<i>Type of Project:</i> Reservoir Rehabilitation	<i>Board Approval Date:</i> January 2018	
<i>Terms of Loan:</i> 1.65% for 40 years	<i>(Original)</i> \$2,367,440.00	<i>(Final)</i> \$2,367,440.00
<i>Design Engineer:</i> Deere & Ault Consultants Inc.		
<i>Contractor:</i> Concrete Works of Colorado, Inc.		



Before



After



Obermeyer Gate

Project Description

The Centennial Irrigating Ditch Company, with the support of the Rio Grande Headwaters Restoration Project, hired Robins Construction to replace the company's diversion dam in October 2017. Robins mobilized in January 2018, building a coffer dam and dewatering half of the channel. After completing earthwork on the southern half of the channel, they placed rock for the diversion, grouted them with concrete, and installed an Obermeyer gate. Then, they removed the cofferdam and built a new one of the north side of the channel, completing the other side of the dam in March 2018. Channel shaping was completed upstream and downstream of the site and the area was revegetated with willow transplants. In spring 2020, robins built a concrete measuring structure in the ditch to improve the measurement accuracy. The project closeout took place on August 1, 2020.

P R O J E C T D A T A		
<i>Sponsor:</i> Centennial Irrigation Ditch Co.	<i>County:</i> Weld	<i>Water Source:</i> Rio Grande
<i>Type of Project:</i> Ditch Rehabilitation	<i>Board Approval Date:</i> September 2017	
<i>Terms of Loan:</i> 1.50% for 20 years	<i>(Original)</i> \$232,300.00	<i>(Final)</i> \$229,060.12
<i>Design Engineer:</i> Natural Resources Conservation Service (NRCS)		
<i>Contractor:</i> Robins Construction		



Pipe Installation



Framing Concrete Splitting Structure



Completed Structure



Completed Alignment

Project Description

The Missouri Heights Mountain Meadow irrigation Ditch provides irrigation water to approximately 2,000 acres of ranch land 12 miles northeast of Carbondale. Their mainline ditch was unlined and experiencing significant losses due to seepage. The company worked with the NRCS to design a three phase lining and piping project of which the Phase B piping was the last to be completed. The previously completed phases, A and C, lined 3,500 feet and 5,750 feet of ditch, respectively. Phase B began when Environmental Excavation LLC mobilized on site in October 2019. They started installing pipe soon afterwards. By March 2020 most of the Phase B work had been completed including the installation of 5,500 feet of pipe and two concrete structures. Seeding and demobilization continued into the spring and the project closeout took place on August 1, 2020.

P R O J E C T D A T A		
<i>Sponsor:</i> Missouri Heights Mountain Meadows Irrigation Company	<i>County:</i> Garfield	<i>Water Source:</i> Cattle Creek
<i>Type of Project:</i> Ditch Piping	<i>Board Approval Date:</i> July 2018	
<i>Terms of Loan:</i> 2.05% for 30 years	<i>(Original)</i> \$303,000.00	<i>(Final)</i> \$178,971.72
<i>Design Engineer:</i> Natural Resources Conservation Service (NRCS)		
<i>Contractor:</i> Environmental Excavation LLC		



Inlet structure during construction



Ditch turnout structures for shareholders



Inlet structure after construction



Project Description

The Orchard Ranch Ditch Company (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 working together to bring water to their farms, and the ditch has been in continuous operation since. The Company completed piping its main canal and portions of 4 laterals. Approximately 2.25 miles of pipe were installed. Pipe sizes ranged from 36" to 8". Twenty turnouts were installed. An inlet structure consisting of a headgate, a measuring flume, and a screening system was installed. The entire system is pressurized so landowners are able to convert from flood irrigation to sprinkler irrigation.

The project was done in conjunction with the U.S. Bureau of Reclamation's Colorado River Basin Salinity Control Program. Approximately 90% of project costs were provided by a grant from the U.S. Bureau of Reclamation. Construction began in December 2018, and was completed in June 2019. Currently the system is finishing its second year of operation and is functioning well.

P R O J E C T D A T A		
<i>Sponsor:</i> Orchard Ranch Ditch Company	<i>County:</i> Delta	<i>Water Source:</i> Surface Creek to Gunnison River
<i>Type of Project:</i> Ditch Rehabilitation		<i>Board Approval Date:</i> January 2016
<i>Terms of Loan:</i> 1.95% for 30 years (Original) \$151,500.00 (Final) \$136,677.22		
<i>Terms of WSRF Grant:</i> (Original) \$50,000 (Final) \$50,000		
<i>Design Engineer:</i> JUB Engineers, Inc. and Robert I. Gallegos, PE		
<i>Contractor:</i> Pitt Construction, LLC		



Before



After

Project Description

The Schneider Ditch Company diverts water from a side channel in the South Platte River for both irrigation and augmentation purposes. Water deliveries are made through the Schneider Ditch to recharge sites and irrigation lands lying south of the South Platte River and near the Town of Atwood. The diversion structure was constructed over 50 years ago and consisted of a concrete rolover wall with a flashboard system that diverted water into the ditch. The original structure had a problem with seepage, undermining, and sediment control. The project included the removal of the existing structure, installation of a new concrete structure with a 60-foot long inflatable bladder gate to act as a service spillway in the river channel, a 10-foot wide radial gate for headgate sand maintenance, a 10-foot wide intake headgate, and construction of a control building with new gate controls. Construction began in the fall of 2019 and was completed in the fall of 2020.

PROJECT DATA		
Sponsor: Schneider Ditch Company	County: Logan	Water Source: South Platte River
Type of Project: Diversion Structure		Board Approval Date: January 2019
Terms of Loan: 1.85% for 30 years (Original) \$1,245,330 (Final) \$1,161,902.11		
Design Engineer: Harris Engineering Consultants, Inc.		
Contractor: Ransome Boone Excavation		

Borrower/Projects	County	Loan Amount	Design Status	Const. Start/End	Const Status	PM	Status Description/Update	
Projects in Design or Construction								
1	Arapahoe County Water and Wastewater Authority >Chambers Reservoir Liner Rehabilitation CT2021-513	Arapahoe	\$2,500,000	100%	May 2020 - Dec 2020	90%	RP	Under construction Aug 2020, liner prep and installation through Oct 2020. All material onsite, liner install half complete 9/10/20, reservoir bottom and sides final acceptance 10/2020, all liner is placed, ancillary items being installed:vents, access ladders, access ramp
2	Cedar Mesa Ditch Company >Lower Cedar Mesa Ditch Piping CT2020-2680	Delta	\$1,346,000	100%	Sept 2020 - Spring 2023	0%	MS	Project has purchased pipe materials and will be starting construction in October.
3 - CHATFIELD Reallocation Project - First Cost of Storage								
a	Castle Pines North Metropolitan District >(C150404A) CT2018-1617	Arapahoe Douglas Park Weld	\$716,000	N/A	April 2020	100%	KR	This contract provided funding specific to the "first cost of storage." Payments were made in April of 2020. Center of Colorado WCD and Castle Pines North MD did not utilize their CWCB loan funds for this payment.
b	Centennial Water & Sanitation District >(C150405A) CT2016-2053	Arapahoe Douglas Park Weld	\$4,929,000	N/A	April 2020	100%	KR	
c	Center of Colorado Water Conservancy District >(C150406A) CT2016-2047	Arapahoe Douglas Park Weld	\$93,700	N/A	April 2020	100%	KR	
d	Central Colorado Water Conservancy District >(C150407A) CT2016-2057	Arapahoe Douglas Park Weld	\$3,156,000	N/A	April 2020	100%	KR	
4 - CHATFIELD Reallocation Project - Phase 1 Mitigation								\$19,329,000
a	Castle Pines North Metropolitan District >(C150404B) CT2018-1616	Arapahoe Douglas Park Weld	\$0	100%	Sept 2017 - Fall 2019	100%	KR	These contracts provided reimbursement for the Chatfield Reallocation Project, for engineering, recreation facilities construction, on-site mitigation, off-site mitigation, and mitigation monitoring. Phase 1 covers the majority of work required before storage is allowed. All construction funds will come out of Phase 1 contract until fully disbursed, and then construction funds will come out of Phase 2's contract.
b	Centennial Water & Sanitation District >(C150405B) CT2016-2055	Arapahoe Douglas Park Weld	\$0	100%	Sept 2017 - Fall 2019	100%	KR	
c	Center of Colorado Water Conservancy District >(C150406B) CT2016-2048	Arapahoe Douglas Park Weld	\$506,300	100%	Sept 2017 - Fall 2019	100%	KR	
d	Central Colorado Water Conservancy District >(C150407B) CT2016-2058	Arapahoe Douglas Park Weld	\$0	100%	Sept 2017 - Fall 2019	100%	KR	
5 - CHATFIELD Reallocation Project - Phase 2 Mitigation								\$6,931,000
a	Castle Pines North Metropolitan District >(C150404C) CT2018-1990	Arapahoe Douglas Park Weld	\$1,572,000	100%	Fall 2019 - Summer 2020	90%	KR	This contract provides reimbursement for the Chatfield Reallocation Project, for engineering, recreation facilities construction, on-site mitigation, off-site mitigation, and mitigation monitoring. Phase 2 covers the construction work remaining after Phase 1 loan funds are fully depleted.
b	Centennial Water & Sanitation District >(C150405C) CT2016-2056	Arapahoe Douglas Park Weld	\$10,826,000	100%	Fall 2019 - Summer 2020	90%	KR	
c	Central Colorado Water Conservancy District >(C150407C) CT2016-2060	Arapahoe Douglas Park Weld	\$6,931,000	100%	Fall 2019 - Summer 2020	90%	KR	
6 - DIVERSION STRUCTURE REPLACEMENT								
a	Deuel and Snyder Improvement Company >Diversion Structure Replacement CT2020-3562	Morgan	\$643,000	100%	Aug 2020 - May 2021	15%	CB	This project will support the replacement of UPBCC/DSC's 1,400 foot long diversion structure on the South Platte. Contractor mobilization and first purchase of materials took place in June 2020.
b	Upper Platte and Beaver Canal Company >Diversion Structure Replacement CT2020-0333	Morgan	\$4,392,000	100%	Aug 2020 - May 2021	15%	CB	This project will support the replacement of UPBCC/DSC's 1,400 foot long diversion structure on the South Platte. Contractor mobilization and first purchase of materials took place in June 2020.
7	Duke Ditch Company >Piping the Duke Ditch CT2017-0915 CTGG1 2017-0212 (WSRF)	Delta	\$90,000	100%	On Hold	0%	MS	NRCS finalized the design in August 2018. Federal grant expired. Company is evaluating options of applying for a loan increase and completing project without federal grant dollars.
8	Florida Consolidated Ditch Company >Hess Lateral Improvement CT2019-2034 CTGG1 2016-1319 (WSRF)	La Plata	\$1,075,000	100%	Winter 2020 - Fall 2021	0%	KR	Company received bids. The low bid exceeded the available funding. Company is in the process of value engineering and project adjustments.
9	Fruitland Irrigation Company >Tunnel and Canal Renovation CT2019-2848 CTGG1 2019-2449 CTGG1 2019-2475	Delta & Montrose	\$1,729,000	100%	Jan 2020 - Dec 2023	16%	RP	Contract needed by - 11/30/2018. Sept 2018 letter from Bureau of Reclamation recvd. Require letter prior to CWCB contract. Construction material delivery began 11/2019. Tunnel bid pkg summer 2020. Rebidding tunnel work Fall 2020.
10	Grand Mesa Water Conservancy District >Peak Res. & Blanche Park Res. Rehabilitation C150354 (CT2015-061)	Delta	\$466,620	100%	Mar 2013 - Dec 2021	75%	MS	Construction on Peak Reservoir began in the 2013 season and was completed in Oct 2014. Construction on Blanche Park Reservoir began in July and just ceased for winter. Embankment fill stockpile is not sufficient and attempts to locate suitable material have not been successful so far.
11 - GRAND VALLEY POWER PLANT REHABILITATION PROJECT								\$3,434,000
a	Grand Valley Water Users Association >Grand Valley Power Plant Rehabilitation CT2017-2875 - SCTF	Mesa	\$1,700,000	100%	On Hold	0%	MS	Project (100% designed) was delayed due to a Dept of the Interior review of pending projects nationwide and has not had final approval from Bureau of

	Borrower/Projects	County	Loan Amount	Design Status	Const. Start/End	Const Status	PM	Status Description/Update
b	Orchard Mesa Irrigation District >Grand Valley Power Plant Rehabilitation CT2017-2878 - SCTF	Mesa	\$1,700,000	100%	On Hold	0%	MS	Reclamation. The Association and District are exploring construction of a new plant nearby to avoid this overdue approval.
12	Groundwater Management Subdistrict of CCWCD >Hokestra Reservoir Purchase CT2020-3348	Weld	\$5,390,500	20%	May 2020 - Dec 2021	0%	CB	Project has been contracted. No funds have been disbursed for the reservoir purchase.
13	Groundwater Management Subdistrict of CCWCD >Pioneer Reservoir CT2019-3687	Weld	\$8,611,000	50%	Sep 2019 - May 2022	0%	CB	This is a gravel pit retrofit for augmentation water supply. Funds for the initial reservoir purchase and some engineering were disbursed in May 2019. Construction efforts are expected to begin in 2020.
14	Hidden Valley Water District >Master Water Meter Connection CT2020-2244	Jefferson	\$1,720,000	100%	Feb 2020 - Dec 2021	95%	RP	Assets and operations are all to the District. District signed and approved EMD IGA. Precon Dec2019. Construction begin Feb 2020. EMD connect 7/2020. Construction complete, final walkthru Aug2020.
15	Huerfano County Water Conservancy District >Regional Augmentation Project CT150364 (CT2015-0047)	Huerfano	\$2,640,000	100%	Jan 2014 - Dec 2021	95%	RP	Land and water rights purchase occurred in January 2014. Phase I completed Oct 2017. Ph 3 - Reservoir liner complete 8/2019. Approved loan increase and time extension 11/2019 mtg. Award to Frontier Environ. Services. Ph4 construction begins AUG2020.
16	Julesburg Irrigation District >Diversion Structure Rehabilitation CT2020-0396 WPG CTGG1-2020-2445	Sedgwick	\$2,858,000	100%	May 2020 - Dec 2021	10%	CB	This project is a diversion structure replacement on the South Platte. The Contractor has been selected and a first disbursal has been made for long lead-time materials. Construction had been slowed due to the State's shelter-in-place order, but is still moving ahead.
17	Larimer & Weld Irrigation Company >Headgate Structure Replacement CT2017-2253	Larimer & Weld	\$675,000	100%	Nov 2017 - Apr 2018	98%	KR	Construction began in November 2017 and was substantially completed in April 2018. Final invoicing is expected soon.
18	Left Hand Ditch Company >Allen's Lake Filler Canal Improvements CT2019-3463	Boulder	\$765,000	100%	Dec 2020 - Feb 2021	0%	CB	This project will replace 2,750 feet of open ditch with a buried pipe. No funds have been disbursed. Construction is expected to begin after Grading Permit is received. Loan Increase was approved in January.
19	Left Hand Water District >Participation in Southern Water Supply Project II CT2018-2028	Broomfield & Weld	\$9,900,990	100%	Feb 2018 - Dec 2020	99%	CB	This contract is for LHWD's participation in Southern Water Supply Project II--a large pipeline supplying water to users in the Northern Front Range. The pipeline has been installed and 100% of loan funds have been disbursed. Substantial completion is expected in Fall 2020.
20	Ogilvy Irrigating and Land Company >Seely Reservoir Dredging CT2019-2099 CTGG1 2019-2018 (WPG)	Weld	\$2,252,000	85%	Fall 2020 - Fall 2023	0%	RP	USACE 12/2019 non-jurisdictional determination. Finalizing contractor agrmt, bonds, construction plans. OILC initiating sediment removal Fall 2020. OILC excavate a few exploratory pits to verify soil conditions and depths to bedrock Summer 2020.
21	Pueblo Conservancy District >Arkansas River and Wildhorse Creek Levees CT2019-0366	Pueblo	\$23,000,000	100%	Dec 2014 - Jun 2021	98%	RP	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. Requesting loan increase 11/2019 from Projects Bill 2020. Wrapping up construction Phase 6.
22	Redlands Water and Power Company >Pumpline Replacement Project CT2021-0511, WSRF POGG1 2020-2970	Mesa	\$635,000	100%	Nov 2020 - Feb 2021	20%	CB	Contractor has been selected for the project and is currently construction with the borrower. Construction is expected to begin in August or September.
23	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	95%	KR	Project is near complete. Moltz has begin demobilization. Outlet is operable and the reservoir is releasing water. Final touches on the Gate House and site clean up will continue through the summer. Ribbon cutting ceremony was postponed due to the COVID-19 public gathering limitations.
24	Southeastern CO Water Conservancy District >Pueblo Dam Hydroelectric Project CT2018-0833	Pueblo	\$17,220,000	100%	June 2017 - Dec 2021	99%	RP	Construction beginning fall 2017. District anticipates power production by fall of 2018. Tie-in to SDS complete April 2018. Waiting on transformer approval from Black Hills. Turbine and generator placement and fiber optic line approval. Functional and producing power. Finalizing adjustments and design details. 2-yr performance time extension approved.
25	South Fork, Town of >Augmentation Water Purchase CT2020-3398	Rio Grande	\$440,000	100%	Mar 2020 - Dec 2020	100%	RP	augmentation water purchase anticipate completion Fall 2020.
26	Spring Dale Ditch Company >Diversion Structure Replacement Project CT2020-3110	Logan	\$1,210,000	100%	Feb 2020 - Feb 2021	10%	CB	This project will replace Springdale's aging diversion structure on the South Platte. Some purchase of materials and mobilization has begun.
27	St. Vrain & Left Hand Water Conservancy District >Lake No. 4 Outlet Pipeline Repair CT2017-3213	Boulder	\$856,000	100%	Mar 2017 - Feb 2021	98%	CB	This project and the Emergency Rock'n WP are independent components of a larger rehabilitation of reservoirs destroyed in 2013. Early in the construction phase, disagreement arose between the owner and contractor and Work shut down, but is now back underway.
28	St. Vrain & Left Hand Water Conservancy District > Emergency Rock'n WP Ranch Lake No. 4 Repair CT2016-2452	Boulder	\$4,500,000	100%	Jan 2016 - Feb 2021	98%	CB	This project and the Lake No. 4 Outlet Pipe are independent components of a larger rehabilitation of reservoirs destroyed in 2013. Early in the construction phase, disagreement arose between the owner and contractor and Work shut down, but is now back underway.
29	Tunnel Water Company >West Half Laramie-Poudre Tunnel Rehabilitation CT2019-3706	Larimer	\$17,080,000	100%	Sep 2019 - Apr 2023	40%	RP	Construction scheduled to begin the Fall 2019, when low water and non-irrigation season. Requesting loan increase 11/2019, 3/2020 from Projects Bill 2020. Construction delays due to Cameron Peak wildfire.
30- WALKER RECHARGE PROJECT								\$15,150,000
a	Central Colorado WCD >Walker Recharge CT2020-0310 CTGG1 2019-3648 WPG	Weld	\$2,250,000	100%	Sep 2019 - Sep 2022	35%	CB	The Walker Recharge project consists of diversions off the South Platte, a pipeline, and infiltration facilities to re-time augmentation flows. Two other loans and a grant are tied to the project. Construction related to the grant will begin in November and the first dipursals were made in December.
b	Groundwater Management Subdistrict of CCWCD >Walker Recharge CT2020-0324	Weld	\$9,750,000	100%	Sep 2019 - Sep 2022	35%	CB	
c	Well Augmentation Subdistrict of CCWCD >Walker Recharge CT2020-0326	Weld	\$3,000,000	100%	Sep 2019 - Sep 2022	35%	CB	

Borrower/Projects	County	Loan Amount	Design Status	Const. Start/End	Const Status	PM	Status Description/Update
31 Wiggins, Town of >Wiggins Recharge Facility at Glassey Farms CT2018-0892	Morgan	\$2,385,000	100%	Jul 2017 - Jul 2021	0%	CB	The purpose of this project is to develop an augmentation water source for the Town. In August 2017 the Town purchased Glassey Farms and its associated water rights and 52% of funds were disbursed at that time. The project is back underway and an extension was granted.
32- WISE Project - Phase 2 Infrastructure							\$7,326,940
a Cottonwood W&S Dist - C150408C (CT2015-0105)	Douglas/ Arapahoe	\$1,116,000	100%	Jan 2020 - Dec 2022	5%	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 SMWSA. Pumps/Treatment-Glacier, Pipeline/Infrastructure-T.Lowell, Jacobs is Engineer. Vault excavation began 9/2020. Construction trailer onsite through project duration. Pipeline install along Alexander started. Contractor is fully mobilized, crossing sewer lines, chemical deliveries are in coordination with Aurora, analysis of the original sample for construction dewatering is high in selenium and the construction dewatering water requires treatment prior to discharge.Finalizing the excavation for the CCB/pump station wet well, surge tank slab complete, storage building piers and area slab complete, flow control structure excavation complete and piers installed.
b Inverness W&S Dist - C150409C (CT2015-0119)	Douglas/ Arapahoe	\$1,413,000	100%	Jan 2020 - Dec 2022	5%	RP	
c Parker W&S Dist - C150410C (CT2015-0109)	Douglas/ Arapahoe	\$3,384,810	100%	Jan 2020 - Dec 2022	5%	RP	
d Pinery (Den SE WSD)C150411B (CT2015-0086)	Douglas/ Arapahoe	\$1,413,130	100%	Jan 2020 - Dec 2022	5%	RP	
33- WISE Project - DIA Connection							
a Cottonwood W&S Dist - C150408D (CT2015-0104)	Douglas/ Arapahoe	\$363,600	80%	N/A	60%	RP	Annual disbursement to be made on this loan through 2021.Design Status indicates percent of funds disbursed to date. No orthophosphate determination created need for alternatives and renegotiations. Working through alternatives.
b Inverness W&S Dist - C150409D (CT2015-0120)	Douglas/ Arapahoe	\$450,000	80%	N/A	60%	RP	
c Parker W&S Dist - C150410D (CT2015-0110)	Douglas/ Arapahoe	\$1,089,000	80%	N/A	60%	RP	
d Pinery (Den SE WSD)C150411B (CT2015-0087)	Douglas/ Arapahoe	\$450,000	80%	N/A	60%	RP	

Projects Under Contract : \$186,189,650

Approved Projects - Not Under Contract

a San Juan Water Conservancy District >Dry Gulch Reservoir Land Acquisition CT2020-XXXX	Archuleta	\$1,980,198	0%	Spring 201x - Fall 202x	0%	KR	Contract needed by - Postponed Indefinitely CWCB approval is conditioned on voters approving debt. Debt approval failed at November 2017 election. District is determining if/how/when to move the project forward.
b Municipal Subdistrict >Windy Gap Project CT2021-XXXX	Larimer	\$90,000,000	0%	Spring 2021 - Summer 2024	0%	CB	Construction contract was awarded in December and allotment contracts among project participants are being drafted. Contractor was selected in October. Project loan conditions were amended at the March Board Meeting. Construction is tentatively planned to begin in November 2020.
c Logan Irrigation District >Prewitt Reservoir Rehabilitation CT2021-XXXX Grant CTGG1 2020XXXX	Washington Logan	\$1,831,000	0%	Spring 201x - Fall 202x	0%	CB	This project will support dredging efforts to eliminate a dead pool at Prewitt Reservoir. The project is currently on hold.
d Taylor & Gill Ditch Company >Ditch Piping CTGG1 2021-XXXX	Larimer	\$125,000	0%	Fall 2020 - Spring 2021	0%	CB	This project will replace 1,000 feet of open ditch with a buried pipe. Contracting documents are currently out to the borrower for signing.
e Highland Meadow Estates at Castle Peak Ranch, Inc >Noecker Reservoir Repair CT2021-XXXX	Eagle	\$649,000	100%	On Hold	0%	MS	This project is the rehabilitation of a high hazard dam. The borrower opted to utilize private financing (Alpine Bank) instead of this loan and the loan be deauthorized at the November meeting.
f Lateral Ditch ML47, Inc. >Lateral Ditch Pipeline Project CT2021-XXXX	Mesa	\$700,000	100%	Fall 2020 - Spring 2021	0%	CB	Currently in contracting.
g Southeastern Colorado Water Conservancy District >Arkansas Valley Conduit CT2021-XXXX	Pueblo, Crowley, Otero, Bent, Prowers	\$90,000,000	0%	Fall 2020 - Fall 2035	0%	RP	
h Amity Mutual Irrigation Company >Queen Reservoir Dam Rehabilitation CT2021-XXXX	Kiowa	\$1,333,000	50%	Fall 2020 - Spring 2022	5%	RP	Dam breached. Final design underway then Dam Safety review/approval. Bid pkg Jan2021.
i Fort Morgan Farms, LLC >Delta Water Storage Phase 1 CT2021-XXXX	Weld	\$8,982,000		Fall 2021 - Spring 2022		CB	
j Rural Ditch Company >Diversion Structure Improvement CT2021-XXXX	Weld	\$805,000		Spring 2021 - Spring 2022		CB	
k Genesee Water and Sanitation District >Reservoir No. 1 Enlargement CT2021-XXXX	Jefferson	\$4,200,000	50%	Spring 2021 - Spring 2022	0%	RP	

	Borrower/Projects	County	Loan Amount	Design Status	Const. Start/End	Const Status	PM	Status Description/Update
l	Grand Junction, City of >Purdy Mesa Flowline Replacement Replacement CT2021-XXXX	Mesa	\$7,000,000		Winter 2020 - Summer 2021		CB	
m	Redlands Water & Power Company >Roller Gate Replacement CT2021-XXXX	Mesa	\$400,000		Fall 2021 - Spring 2022		CB	
n	Florida Consolidated Ditch Company >Florida Canal Diversion Replacement CT2021-XXXX WSRF CTGG1 2021-XXXX	La Plata	\$750,000		Spring 2021 - Fall 2023		MS	This project is the replacement of a low head dam diversion structure with multi beneficial outcomes. The project is currently in contracting.

Not Under Contract SubTotal = \$208,755,198

Grand Total = \$394,944,848

**WATER PROJECT CONSTRUCTION LOAN PROGRAM
 LOAN REPAYMENT DELINQUENCY REPORT
 LOAN FINANCIAL ACTIVITY REPORT
 November 2020**

LOAN REPAYMENT DELINQUENCY

Loan Repayments received relative to the Water Project Construction Loan Program have been reviewed for the period covering July 2020 through October 2020. 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 Fiscal Year 2021 totaled 98. Two Rivers Water and Farming Company had an annual payment due March 1, 2020 in the amount of \$76,006.78 which has not been remitted to CWCB as of this Board Meeting (November 18, 2020). This is the 5th year that the Company has not made their loan payment on time. A late fee of 5% or \$3800.34 has been assessed per CWCB policy because the payment has not been received within 60 days of the due date. Kirk Russell, Finance Section Chief, will address this during his presentation.

LOAN FINANCIAL ACTIVITY

Loan Financial Activity relative to the Water Project Construction Loan Program for Fiscal Year 2021 is summarized as follows: Funds received relative to loans in repayment totaled \$20.7M for this year. Funds disbursed relative to new project loans totaled \$7.3M for this year. Net activity resulted in \$13.4M received by the CWCB Construction Fund and the Severance Tax Perpetual Base Fund (STPBF) over the total disbursed.

Further breakdown is summarized as follows: The Construction Fund portion consists of \$14.9M in receivables and \$3.3M in disbursements for a total net activity of \$11.6M received over disbursed. The STPBF consists of \$5.8M in receivables and \$4M in disbursements for a total net activity of \$1.8M received over disbursed.

CONSTRUCTION FUND

Period	Principal	Interest	Total Received	Disbursements	Net Activity
July	\$ 9,602,286	\$ 329,415	\$ 9,931,700	\$ 924,682	\$ 9,007,018
August	\$ 1,412,152	\$ 250,382	\$ 1,662,534	\$ 233,385	\$ 1,429,149
September	\$ 1,853,472	\$ 1,059,132	\$ 2,912,605	\$ 1,656,149	\$ 1,256,455
October	\$ 238,098	\$ 128,000	\$ 366,098	\$ 470,663	\$ (104,565)
FY 2021 Totals	\$ 13,106,008	\$ 1,766,929	\$ 14,872,937	\$ 3,284,879	\$ 11,588,058

SEVERANCE TAX TRUST FUND PERPETUAL BASE ACCOUNT

Period	Principal	Interest	Total Received	Disbursements	Net Activity
July	\$ 30,637	\$ 13,228	\$ 43,865	\$ 330,453	\$ (286,588)
August	\$ 3,162,873	\$ 934,758	\$ 4,097,632	\$ 647,738	\$ 3,449,894
September	\$ 332,706	\$ 805,224	\$ 1,137,930	\$ 2,878,670	\$ (1,740,740)
October	\$ 388,226	\$ 149,495	\$ 537,721	\$ 206,022	\$ 331,699
FY 2021 Totals	\$ 3,914,443	\$ 1,902,705	\$ 5,817,148	\$ 4,062,883	\$ 1,754,265

GRAND TOTALS	\$ 17,020,451	\$ 3,669,634	\$ 20,690,085	\$ 7,347,762	\$ 13,342,323
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