Colorado Water Conservation Board

Director's Report

January 2011

STATE OF COLORADO

Colorado Water Conservation Board
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MEMORANDUM

TO: Colorado Water Conservation Board

FROM: Jennifer Gimbel
CWCB Staff

DATE: January 24-26, 2011

SUBJECT: **Agenda Item 5d**, January 2011 CWCB Board Meeting Director's Report

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- **U.S. – Mexico Sign Minute 318 Allowing Mexico to Delay Delivery of its Colorado River Allocation Due to the Easter 2010 Earthquake**
- **Colorado River States Meet with Secretary Salazar**
- **Southern Rockies Landscape Conservation Cooperative (SRLCC) Interim Steering Committee Meeting**
- **National Levee Safety Update**

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- **Drought Status Update**
- **Water Conservation Plans Approved**
- **Governor's Water Availability Task Force**
- **Ground Water Commission Meeting**
- **Colorado Water Congress Hosts Australian Delegation**
- **Water Tables Event Scheduled for February 19, 2011 in Fort Collins, Colorado**
- **Bureau of Reclamation Announces WaterSMART Grant Funding Opportunities**
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~FEDERAL AND INTERSTATE~

U.S.-MEXICO SIGN MINUTE 318 ALLOWING MEXICO TO DELAY DELIVERY OF ITS COLORADO RIVER ALLOCATION DUE TO THE EASTER 2010 EARTHQUAKE: On December 17, 2010, U.S. and Mexican representatives signed Minute 318. This Minute allows Mexico to adjust, and delay, the delivery of its Colorado River allocation. My staff, and the Colorado Attorney General's staff, worked very closely with the other Colorado River basin states, the U.S. Bureau of Reclamation, the U.S. State Department, the International Boundary Waters Commission (IBWC), and Mexico's representatives, to develop this Minute 318 in a manner that comports with the Law of the River. I am very hopeful that this Minute will pave the way so that representatives of Mexico, the United States, and the Colorado River basin states may reach additional agreements on water management strategies that will benefit both countries. A copy of the DOI press release as well as Minute 318 is attached. (*Ted Kowalski*)

COLORADO RIVER STATES MEET WITH SECRETARY SALAZAR: Secretary Salazar and other senior Interior Department officials met with Colorado, and the other Colorado River basin states' representatives, on November 30, 2010 in Washington, D.C., to discuss future Colorado River challenges and how the States and the federal government must rise to meet these challenges. At this meeting, Secretary Salazar and the basin states renewed their commitment to work together and to communicate effectively and often about Colorado River matters. I, and the other basin states' representatives, appreciated the Secretary's willingness to engage the States in this continuing conversation, and I look forward to additional and frequent conversations with Secretary Salazar and his staff. (*Ted Kowalski*)

SOUTHERN ROCKIES LANDSCAPE CONSERVATION COOPERATIVE (SRLCC) INTERIM STEERING COMMITTEE MEETING: Representatives from various Department of the Interior agencies, state resource management agencies, various tribes, environmental groups, and universities met on December 13th and 14th in Albuquerque to discuss the formation of the SRLCC. The goal of the LCC initiative is "to bring together science and resource conservation to inform climate adaptation strategies to address climate change and other stressors within an ecological region, or "landscape." The Interim Steering Committee discussed the draft Governance Document and Operating Plan, and plan to discuss invitations to possible permanent Steering Committee members on a conference call in January. More information on the SRLCC can be found at http://www.usbr.gov/WaterSMART/lcc.html. (*Brent Newman*)

NATIONAL LEVEE SAFETY UPDATE: The National Committee on Levee Safety (Committee) continues to meet as needed to discuss public safety matters with respect to flood control levees and related structures. Colorado is fortunate to have a highly qualified representative, Paul Perri (DWR), serving on the Committee. Following a mandate from Congress as part of the 2007 Water Resources Development Act (WRDA) Bill and based on devastating lessons learned from the gulf coast flooding several years ago, the Committee was charged with developing recommendations for a National Levee Safety Program (Program). One important issue that has caught the attention of water delivery system owners is a requirement by Congress that canals/ditches be included in the levee program under certain conditions. The Committee presented a status of the recommendation for a Program to the senior staff members of the Committee on Transportation and Infrastructure of the House of Representative and the Committee on Environment and Public Works of the Senate on January 15, 2009. Details are not

yet available regarding how the Program would be established or implemented. More information can be found on the web at http://www.nfrmp.us/ncls/index.cfm (*Tom Browning*)

~STATEWIDE~

IRRIGATED LANDS REFRESH: Riverside Technology was selected in mid-November by the CWCB to acquire and process satellite imagery for the 2010 irrigated lands refresh project. Images from the growing season have been selected and processing is under way. Image processing is expected to be completed by late March. CWCB and DWR staff continue to refine the field boundary data, using the 2009 NAIP aerial photography. Processed imagery will be delivered as it's completed, allowing staff to begin classification work as early as February. (*Ray Alvarado*)

DROUGHT STATUS UPDATE: Drought conditions experienced throughout the fall and early winter in the Southwest and Northwest corners of the state have been alleviated by winter snowstorms. Most of the western slope is above average for snowpack, as of January 1, 2011. East of the divide the plains remain quite dry. D1, a moderate drought, blankets nearly all of the eastern plains, with some areas on the periphery experiencing D0, abnormally dry conditions. D2, Severe drought conditions, continue to persist from northeastern Huerfano County east to the Kansas border and includes most of Pueblo, Crowley, Kiowa, Otero, Bent and Prowers counties. The Water Availability Task Force will meet January 18th to discuss conditions and make recommendation where appropriate. (*Taryn Hutchins-Cabibi*)

WATER CONSERVATION PLANS APPROVED: The Office of Water Conservation & Drought Planning (OWCDP) has ***approved*** additional Water Conservation Plans from water providers. They include:

- St. Charles Mesa Water District
- City of Cortez

The OWCDP has determined these plans to be in accordance with §37-60-126 C.R.S. and the CWCB's Guidelines for the Office to Review Water Conservation Plans Submitted by Covered Entities. Water providers may proceed with implementation of their Plans.

The OWCDP has received and is evaluating and working with providers on the following Water Conservation Plans:

- Consolidated Mutual Water Company
- Grand Valley Regional Water Conservation Plan
- City of Louisville
- Town of La Junta
- City of Broomfield
- City of Arvada
- City of Steamboat Springs/Mount Werner Water (*Ben Wade*)

GOVERNOR'S WATER AVAILABILITY TASK FORCE: Please see included December 2010 Drought Update for information on current drought conditions throughout the state. The next WATF meeting is scheduled for January 18, 2010 at the Colorado Division of Wildlife

Headquarters. Please check the website (http://cwcb.state.co.us/public-information/flood-water-availability-task-forces/Pages/main.aspx) for additional information. (*Ben Wade*)

GROUND WATER COMMISSION MEETING: The Ground Water Commission held a meeting on November 19, 2010, in Castle Rock, CO. The primary agenda item was a rule making hearing. The proposed rule was adopted, thus all of the alluvium of the Lost Creek Designated Basin is now considered overappropriated. The Ground Water Commission will hold its next meeting on February 18, 2011, in Denver, CO. For more information visit: http://water.state.co.us/groundwater/CGWC/Pages/default.aspx. (*Suzanne Sellers*)

COLORADO WATER CONGRESS HOSTS AUSTRALIAN DELEGATION: The Annual Meeting of the Colorado Water Congress will be a unique opportunity for the members of the Water Congress to interface with, and learn from, Australian representatives. The various panels will include federal, state, academic, and private representatives from Australia and Colorado, who will compare and contrast key water issues between the two countries. This year's annual convention will be unlike any other! A full agenda of the Colorado Water Congress events can be found at http://www.cowatercongress.org/AnnualConvention/index.aspx (*Ted Kowalski*)

WATER TABLES EVENT SCHEDULED FOR FEBRUARY 19, 2011, IN FORT COLLINS, COLORADO: The Colorado State University (CSU) Water Tables event has been scheduled and the Colorado Water Conservation Board will sponsor the event. The water table hosts this year will include Will Fargher, of the Australian federal government, Ted Kowalski of the CWCB staff, and many others. It will be fun-filled and lively. For more information about this year's event, which serves as a vital fundraiser for the CSU Water Resources Archive, visit: http://lib.colostate.edu/about/news/2010/wt11 (*Ted Kowalski*)

BUREAU OF RECLAMATION ANNOUNCES WATERSMART GRANT FUNDING OPPORTUNITIES: In December, the Bureau of Reclamation announced the availability of three opportunities for funding under the WaterSMART (Sustain and Manage America's Resources for Tomorrow) program. These opportunities are intended to address the current challenges to water supply in the 21st century, "including population growth, climate change, rising energy demands, environmental needs, and aging infrastructure." The letter from Reclamation announcing this potential funding is attached to this report, and more information on these grant funding opportunity announcements can be found on the WaterSMART website at http://www.usbr.gov/WaterSMART/. (*Brent Newman*)

BUREAU OF RECLAMATION (BOR) ANNOUNCES 2011 RURAL WATER SUPPLY PROGRAM FUNDING OPPORTUNITY: The Rural Water Supply Program was established by BOR to work with small communities, including Indian tribes, on a cost-share basis to explore opportunities to supply water for domestic, municipal, and industrial uses in rural areas. The announcement invites "states and political subdivisions of states" to consider participating in an appraisal investigation or feasibility study for rural water supply projects. The letter from Reclamation inviting consideration of these opportunities is attached to this report, as well as the agency's press release. More information on the program can be found at http://www.usbr.gov/ruralwater. (*Brent Newman*)

~ARKANSAS RIVER BASIN~

ARKANSAS RIVER DECISION SUPPORT SYSTEM (ARKDSS): The feasibility study for an Arkansas River decision support system (ArkDSS) commenced in late January 2010. The purpose of the feasibility study is to define the ArkDSS's purposes, uses, users, components, data requirements, costs and the schedule required to develop such a system. The results of the feasibility study will be used by the CWCB and DWR for recommending the development of an ArkDSS to the General Assembly.

ArkDSS alternatives have been formulated and are being reviewed by the Roundtable technical subcommittee. A proposed alternative will be presented to the Board in the next few months. The draft report will be available for review soon after, with a final report completed in spring 2011. The schedule has been delayed several months to allow more stakeholder input into the process. (*Ray Alvarado*)

ARKANSAS RIVER COMPACT ADMINISTRATION (ARCA): The 2010 ARCA Annual Meeting was held in Lamar, CO on December 13-14, 2010 with Vice-Chairman Randy Hayzlett of Lakin, Kansas presiding. Matt Heimerich of Olney Springs and Colin Thompson of Holly represented Colorado, as Director Gimbel was required to remain in Denver for meetings with the JBC. Reports on Colorado's Compact compliance activities and annual accounting of John Martin Reservoir ("JMR") operations were received. Colorado also briefed the Administration about the ongoing feasibility study for an ArkDSS and the recently adopted "Compact Rules Governing Improvements To Surface Water Irrigation Systems". The Special Engineering Committee on which Dick Wolfe and Director Gimbel serve was reauthorized for 2011 and will look into concerns Kansas has continued to express with regard to winter water allocations at JMR, as well as other lingering accounting questions and several new issues. (*Steve Miller*)

TRINIDAD PROJECT: Reclamation issued its Final 1995-2004 Review of Operating Principles and Project Operations Trinidad Lake Project in September 2010. Staff can provide a copy of the Final Report, or it can be accessed from the following website: http://www.usbr.gov/gp/ecao/trinidad/index.html
There was an initial meeting of federal, Colorado and Kansas officials, water users, and the Purgatoire River Water Conservancy District (PRWCD) immediately after the 2010 ARCA meeting to commence the new process of more frequent discussions of project operations among all interested parties. This process is intended to make future reviews less contentious and more focused on the intended purpose of maximizing the beneficial use of project water supplies while also protecting downstream water users. A technical subcommittee was formed to begin addressing issues identified at the initial meeting. (*Steve Miller*)

COMPACT RULES GOVERNING IMPROVEMENTS TO SURFACE WATER IRRIGATION SYSTEMS IN THE ARKANSAS RIVER BASIN IN COLORADO: The new rules designed to offset increased consumptive use of through modernization of surface water supplied irrigation systems took effect on January 1, 2011 after entry of a decree by the Div. 2 Water Court on October 25, 2010. The CWCB provided $250,000 of funds in the 2009 Projects Bill which the Lower Arkansas Valley WCD has used for technical services to develop a basinwide compliance plan for irrigators impacted by the rules. Local reports indicate that applications to be covered by the LAVWCD plan have been brisk, and that a compliance plan for

covered systems will be submitted to the Div. 2 Engineer in time for the beginning of the 2011 irrigation season. (*Steve Miller*)

~COLORADO RIVER BASIN~

LAKE MEAD LEVELS RISE, SNOWS IN THE COLORADO SYSTEM SUGGEST THAT THERE WILL BE LAKE POWELL EQUALIZATION RELEASES: Due to rains in the lower basin Lake Mead rose to elevation 1087 in January, 2011, which is up from elevation 1082 (an elevation that had not been seen since Lake Mead originally filled) where Lake Mead was in October, 2010. In addition, the Colorado River basin snowpack above Lake Powell is estimated to be 151% of average. With these new projections, it is expected that the January, 2011 U.S. Bureau of Reclamation 24 month study will reflect the fact that the actual and projected operations of Lake Powell will be adjusted because there is a high probability that Equalization releases will be required in water 2011. At the time that this report is being written, the January 24 month study is not yet available. The equalization level for Lake Powell in 2011 is elevation 3,643. The current elevation of Lake Powell is 3626. (*Ted Kowalski*)

HIGH FLOW EVENT (HFE) PROTOCOL ENVIRONMENTAL ASSESSMENT (EA): The Department of the Interior has delayed the release of the draft EA HFE Protocol due to a number of factors, but it is expected to be released to the public in early January, 2011. The State of Colorado has been in active conversations with the other Upper Division States, and the Department of the Interior, about the development of the Protocol and we will update the Board at the upcoming Board meeting. (*Ted Kowalski*)

TED KOWALSKI SPEAKS AT ASSOCIATION OF CALIFORNIA WATER AGENCIES (ACWA) CONFERENCE: On behalf of the Colorado Water Conservation Board, Ted Kowalski served on a panel about the future challenges facing the Colorado River, at the ACWA conference in Palm Springs, California, on December 1, 2010. (*Ted Kowalski*)

ARIZONA GOVERNOR BREWER NAMES NEW ACTING DIRECTOR FOR ARIZONA DEPARTMENT OF WATER RESOURCES: On January 7, 2011, Governor Brewer announced that Herb Guenther will step aside as the head of the Department of Water Resources, but he will stay on as an adviser. The acting director will be Sandra Fabritz-Whitney, who has been the assistant director of the agency since 2005. Herb Guenther served as the Director through the negotiations that resulted in the 2007 Interim Guidelines for Shortage Criteria and Coordinated Reservoir Operations between Lake Powell and Lake Mead. Herb also saw huge cuts in the Department's budget. The agency lost about 70 percent of its budget in the last two years, and the staff dropped from 236 employees to 94 employees this year. I wish Herb Guenther the best. I will miss Herb's frankness, commitment to the issues, and quick wit. (*Ted Kowalski*)

RECREATIONAL IN-CHANNEL DIVERSION ("RICD") APPLICATIONS: The Board of Commissioners for the County of Grand and the Board of Commissioners for the County of Pitkin both submitted separate applications for surface water rights for Recreational In-Channel Diversions to the Division 5 Water Court in December 2010. Staff will hold a conference call with representatives from Pitkin County on January 11, 2011 to discuss their application. Additionally, Staff will attempt to set up a similar meeting with representatives from Grand County. (*Suzanne Sellers*)

PUBLIC HEARING TO RENEW GRAND MESA CLOUD SEEDING PERMIT: On January 6th, the CWCB, the Water Enhancement Authority (WEA), and Susan Schneider of the AGO held a public hearing about the WEA application to renew its cloud seeding permit. The WEA is comprised of several small water conservancy districts with water interests in the Grand Mesa. WEA's application was to renew ten year cloud seeding permit that expired after winter 2009-10. A quick summation of the meeting is that there is a new operational meteorologist, with 25 years cloud seeding experience, that will be the permit holder. Nolan Doesken, State Climatologist, found Mr. Thompson on behalf of the WEA and we are thankful. The State requirements for a qualified permit holder were previously an issue for the WEA. Mr. Thompson will be a great asset to their renewed collaboration. No members of the public attended the hearing or were in opposition to the permit. Staff will be working with the AGO to develop a record of decision and terms and conditions in the permit. The permit will not be finalized until official proof of notification in the newspapers has been received. Also important to note was a renewed interest by the City of Grand Junction through two of their employees Mark Ritterbrush and Slade Connell. The two city employees took the initative to become President and Field Operations personnel for the WEA, develop an articles of incorporation and operating structure which is very to the CWCB and Lower Basin water users, which provide grants to Colorado cloud seeding programs. Detailed accounting, reporting on operations, and adherence to suspension criteria are needed in order to provide grant funding to the WEA. Since 2007, through Colorado River agreements and CWCB funding, we have purchased $80,000 of equipment that includes: a weather station, liquid propane dispenser, and a remotely operated AgI ice nucleus generator. The City staff worked with the WEA to purchase a laptop computer and install loggernet. They have been trained on how to restock solution and operate the new equipment. As part of the CWCB and Colorado River funding, staff hoped that a technology transfer initiative would flourish and better equipment could be imported into Colorado to modernize our programs. It appears this effort is coming to fruition and will lead to great confidence and effectiveness in our programs. (*Joe Busto*)

UNIVERSITY OF COLORADO NATURAL RESOURCES LAW CENTER (NRLC) JUNE CONFERENCE WILL FOCUS ON THE COLORADO RIVER: The NRLC Conference will begin on the evening of June 8 and will go through June 10, 2011. This year's focus will be on the Colorado River. More information will be available in the coming months at: http://www.colorado.edu/law/nrlc/ (*Ted Kowalski*)

COLORADO RIVER WATER USERS ASSOCIATION ANNUAL CONFERENCE: The Colorado River Water Users Association Annual Conference was held on December 15-17, 2010, in Las Vegas, Nevada. Secretary Salazar, Commissioner Connor, and many others spoke at this year's annual conference. Secretary Salazar urged additional collaboration among the stakeholders to meet the future challenges facing the Colorado River. A copy of Secretary Salazar's speech is attached to this report. Next year's annual conference has been set for December 14-16, 2011. (*Ted Kowalski*)

UPPER COLORADO RIVER COMMISSION MEETINGS: The Upper Colorado River Commission (Commission) met on December 15, 2010 in Las Vegas, Nevada, in conjunction with the Colorado River Water Users Association Annual Conference. The Commission worked on setting priorities for the upcoming year, and the Commission received a number of oral and written reports from the various Department of Interior Regional Directors. The next

Commission meeting is scheduled to be on June 8, 2011, in Boulder, Colorado, in conjunction with the NRLC Conference. (*Ted Kowalski*)

GLEN CANYON TECHNICAL WORK GROUP (TWG) AND ADAPTIVE MANAGEMENT WORK GROUP (AMWG) MEETINGS: The Annual Reporting meeting and first annual TWG meeting will be on January 18-20, 2011, in Phoenix, Arizona. The TWG will review and develop the 2011 budget and work plan. The primary purpose of this AMWG meeting will be to discuss: 1) the High Flow Experiment Synthesis reports; 2) the status of the sediment inputs; and, 3) the concerns about the Fiscal Year 2011 work plan, in light of reduced agency budgets. (*Ted Kowalski*)

COLORADO RIVER BASIN SALINITY CONTROL PROGRAM: The Forum, Work Group, and Advisory Council met in San Diego in November 2010. Of particular importance to Colorado, the Advisory Council recommended to Reclamation that up to $300,000 of Basin States cost share funds be directed to a study of enhanced salinity control opportunities, both on and off-farm, in the Gunnison Basin unit. Reclamation's most recent Funding Opportunity Announcements ("FOA") which solicited proposals for control projects funded from the Basinwide Program closed in mid-December 2010. We will not learn any specifics about those proposals until after all are scored and rated for further action by a small group of evaluators from the Lower Basin and Reclamation, but we do believe that several good proposals for major off-farm infrastructure improvements were submitted by Colorado entities. The mandatory triennial review of the basinwide water quality standards for Colorado River salinity has begun, and an evaluation report will be issued in the fall of 2011. No changes to the current numeric criteria or Plan of Implementation are anticipated.

On December 29, 2010 Jennifer Gimbel, Steve Gunderson [CDPHE], and David Robbins, Colorado's three Colorado River Basin Salinity Control Program [CRBSCP] Forum members and Alex Davis from DNR-EDO, met for about one hour with Jim Martin, Director of EPA Region 8. The meeting with Martin was requested by the Forum members to request his assistance regarding future evaluations of the USBR Paradox Salinity Control Unit. The need for this meeting was primarily based on what may have been a somewhat off-hand comment from an EPA Region 9 official at the November CRBSCP Forum meeting to the effect that if EPA rejected evaporation ponds during reviews in the 1980's then the Program could be wasting time pursuing that option at the present. The Colorado officials basically asked EPA to keep an open mind to all future brine disposal options [which we suggested should include solar evaporation], and EPA agreed to evaluate new proposals based on current conditions and analysis, and not merely rely on previous decisions. Director Martin was unequivocal in stating that EPA would look at all information presented in future evaluations of new brine disposal options for the Paradox Unit which would likely occur in the context of new NEPA reviews and/or issuance of new permits for the unit. Background information on the Paradox Unit prepared by the staffs from EPA and the CWCB is attached. (*Steve Miller*)

~PLATTE RIVER BASIN~

SOUTH PLATTE DECISION SUPPORT SYSTEM (SPDSS): The alluvial groundwater modeling is still moving forward into the calibration phase of that effort. Software issues with a pre-processor had to be addressed which pushed the final calibrated alluvial groundwater model being completed in early 2011. The calibration of the model has unique challenges because of

the scope and breadth of the basin and hydrogeology, however these challenges are being addressed as they come forward with the final product being a calibrated basin wide alluvial groundwater model for the South Platte. (*Ray Alvarado*)

PLATTE RIVER RECOVERY PROGRAM: The Platte River Recovery Implementation Program ("Program") Governance Committee held its most recent meeting in Denver, CO on December 7-8, 2010. The primary agenda item was approval of the FY11 Master Plan and Budget. Additionally, Tim Welker of the U.S. Army Corps of Engineers gave a presentation on pallid sturgeon monitoring & research activities on the Missouri River and related tributaries. Lastly, Suzanne Sellers will represent Colorado on a committee to edit and approve the Scope of Work for the Lower Platte River Stage Change Study which has implications on future program activities related to the pallid sturgeon. The next Governance Committee Meeting will be held on March 8-9, 2011 in Kearney, NE. For more information, please visit: http://www.platteriverprogram.org/Pages/default.aspx. (*Suzanne Sellers*)

CACHE LA POUDRE RIVER GENERAL INVESTIGATION STUDY: The CWCB closed a contract with the City of Greeley on December 31st that involved State and local funding for the U.S. Army Corps of Engineers to conduct a Flood Damage Reduction/Environmental Restoration General Investigation (GI) Study. The CWCB originally put in $150,000 from the 2003 Projects Bill, and then amended the contract for another $150,000 for total of $300,000 in CWCB funding. The grant was used to help match Greeley's contract with the Corps of Engineers. The following study tasks have been completed: Existing Conditions Report, Future-Without Project Report, delineation of initial flood damage reduction alternatives and cost comparison, Draft Feasibility Report, Independent Technical Review of the draft report and appendices, Initial Public Involvement Process, and Feasibility Scoping Meeting with the "Vertical Team" (Headquarters, Division, and District). Completion of those tasks resulted in the completion of the deliverables in the contract between the CWCB and the City of Greeley. Major milestones and tasks ahead include enhancement and comparison of alternatives, plan selection, and recommendations. The CWCB funds assisted in getting the GI Study to 75% complete. Dave Wells, Greeley's project manager, wanted to add a big thank you to the agency and to let the CWCB know that the great progress could not have been made without CWCB help. Copies of the deliverables can be found at http://www.greeleygov.com/Engineering/CacheLaPoudre.aspx and are available for public viewing. (*Joe Busto*)

CHATFIELD RESERVOIR REALLOCATION PROJECT: Work continues on the Project and the study team continues to make progress on the last pieces of the Draft Feasibility Report and Environmental Impact Statement (FR/EIS). The Corps of Engineers (Corps) has a revised schedule and now hopes to transmit the completed draft to Corps Headquarters office for review in early 2011, prior to release for the public comment period. The Colorado Department of Natural Resources (DNR) is working with State Parks, Division of Wildlife, CWCB, and potential Chatfield water users (Project participants) to negotiate remaining issues related to recreation modification, environmental mitigation, and a fish and wildlife plan that will assist with Project approval and implementation. The Chatfield Coalition is also planning its usual trip to Washington, D.C. in early March to meet with the Corps and Congressional Delegation offices. (*Tom Browning*)

~SAN JUAN/SAN MIGUEL-DELORES RIVER BASIN~

SOUTHWEST RAC WILD & SCENIC SUBGROUP MEETING: The Bureau of Land Management Southwest Resource Advisory Council Subgroup held a series of public meetings in Placerville, Naturita, Telluride and Norwood, CO on Dec. 6-7 and 14-15, 2010 to discuss Wild and Scenic River suitability. The meetings included providing background information to the public on the Wild & Scenic process and collecting public comments on San Miguel River Segments 1 and 2, Saltado Creek and Beaver Creek. The next round of public meetings will be held January 4-5, 2011 in Telluride and Naturita, CO and January 20, 2011 in Norwood, CO. (*Suzanne Sellers*)

SAN JUAN RIVER RECOVERY IMPLEMENTATION PROGRAM (SJRRIP) COORDINATION COMMITTEE (CC) MEETING: The San Juan River Recovery Implementation Program will hold its next CC meeting on February 3, 2011 in Farmington, New Mexico. Some of the topics on the agenda are the stocking plan for Lake Nighthorse, the 2012 budget, and the hydrology model update. It should be noted that the Animas LaPlata Operation, Maintenance, and Replacement Association sent a letter regarding the stocking plan for Lake Nighthorse to the Bureau of Reclamation. This letter is attached to this report. For more information, please see the Program's link: http://www.fws.gov/southwest/sjrip/. (*Ted Kowalski*)

RIVER PROTECTION WORGROUP: The River Protection Workgroup ("RPW"), has continued to conduct work on the San Juan River basin, and has begun work on the Vallecito Creek/Pine River basin. The San Juan River Group met on November 29, 2011, in Pagosa Springs, Colorado. The next meeting of the San Juan RPW will be held on January 27, 2011. For more information, see the following link: http://ocs.fortlewis.edu/riverprotection/. (*Ted Kowalski*)

FINAL CWCB SNOTEL SITE GRANT AWARDED: The CWCB teamed up with the Dolores Water Conservancy District to provide funding for a new SNOTEL that will be helpful in forecasting the inflows into McPhee Reservoir. Starting in 2004, the CWCB has partnered with local agencies and the NRCS Snow Survey program to convert manually measured snow sites to daily automated data through SNOTEL (SnowTelemetry) sites. Some additional SNOTEL sites were installed in basins which had no prior data collection. This has been a successful and popular program leading to 20 sites of the total 110 in Colorado, or a 18% increase in physical measurement sites for water supply and flood forecasting. Although a popular CWCB grant program, the CWCB and NRCS have agreed not to apply for anymore CWCB funding until all the remaining sites are installed; estimated to be completed in 2013 or 2014. The sites that are completed are Cochetopa Pass (Saguache Creek), Grayback (Rio Grande), Bear River (Yampa), Hayden Pass (Arkansas/Rio Grande), St. Elmo (Arkansas), Chapman Tunnel (Arkansas/Colorado), Hourglass Lake (S. Platte), Moon Pass (Rio Grande), Sargents Mesa (Rio Grande/Gunnison), Long Draw Resv. (S. Platte), Elliot Ridge (Colorado), Upper Taylor (Gunnison), Black Mountain (S. Platte), and Weminuche Creek (Piedra). The sites that remain to be completed are Wager Gulch (Gunnison), Fool Creek (Colorado), Sawtooth (S. Platte), Meadow Creek (Colorado), and Madden Peak (Yampa). A more comprehensive report to the CWCB will follow once all sites are installed. The NRCS Snow Survey budgets have been holding at around $1M per year for staff, offices, and equipment since 2001. Increased federal funding for additional staff will be needed to continue collaborations such as this. In addition to Colorado, the NRCS Snow Survey Program in Lakewood also installs and services SNOTEL

sites in New Mexico, Arizona, and Southern Wyoming. Another example that illustrates the financial importance of forecasts is an excerpt from a 2010 NRCS report that said, "If Denver Water did not have access to real-time snowpack and water supply forecast information, and instead based its reservoir management decisions on historical water supply averages, it could expect to lose approximately $5,594,000 in potential revenue during a typical year due to sub-optimal transfers of water between the various storage reservoirs within its water collection and distribution system." The full report is "A Measure of Snow: Case Studies of the Snow Survey and Water Supply Forecasting Program," available at http://www.wcc.nrcs.usda.gov/. Staff would like to thank the NRCS and the myriad of local water districts, governments, and nonprofit agencies that made this such a successful endeavor. Better characterization of our yearly snowpack is imperative to feed models to make forecasts and the beneficial use of waters within the state. (*Joe Busto*)

~GUNNISON RIVER BASIN~

UNCOMPAHGRE WILD & SCENIC STAKEHOLDERS MEETING: The Uncompahgre Wild & Scenic Stakeholders' ("Stakeholders") group held meetings in Delta, CO on November 8 & 22 and December 6 & 20, 2010. A facilitator team was hired and they began facilitating at the November 8th meeting. These meetings were partly procedural, including providing background information to the stakeholders on the Wild & Scenic stakeholder process and determining how the group would conduct the stakeholder process and obtain consensus where possible. The group also held substantive discussions on Deep Creek, Monitor Creek, Roubideau Creek and Potter Creek, Terror Creek and the Gunnison River. The stakeholder group is actively seeking meaningful financial contributions from the stakeholders and has submitted a grant request to the CWCB. The next Stakeholder Meeting will be held on January 10, 2011 in Delta, Colorado. (*Suzanne Sellers*)

GUNNISON BASIN SELENIUM MANAGEMENT PLAN: The next meeting as we continue to work with water users and Reclamation on the structure of a Selenium Management Program ("SMP") being developed by the USBR will be held in Delta on January 14, 2011. Staff will participate by phone as the components of an Implementation Plan containing the specific commitments and responsibilities of each participating entity are developed. The CWCB committed to be part of this process pursuant to a Memorandum of Understanding reviewed with the Board at the September meeting in Grand Junction. A copy of the signed MOU and a transmittal letter from Area Manager Carol DeAngelis is attached. (*Steve Miller*)

~AGENCY UPDATES~

2011 ISF WORKSHOP: The 2011 Instream Flow Workshop will be held on Wednesday, February 16th from 12:30 – 4:30 PM in the Hunter Education Building at the Colorado Division of Wildlife headquarters (6060 Broadway, Denver, Colorado, 80216). There will be no lunch provided, but light refreshments will be served. This workshop is an opportunity for state and federal cooperators and all other members of the public to provide detailed instream flow and natural lake level recommendations to the Board and Staff and to indicate where they intend to concentrate their data collection efforts in future years. (*Rob Viehl*)

RECENTLY DECREED ISF WATER RIGHTS: On November 14, 2010, the Division 5 Water Court decreed an instream flow water right to the CWCB on Troublesome Creek in Case No. 09CW063 for 5.1 cfs (April 1 – October 31), and 2.8 cfs (November 1 – March 31) with an appropriation date of January 27, 2009. The upstream terminus is the confluence with Glomerate Creek and the lower terminus is the confluence with Rabbit Ears Creek. This ISF reach is approximately 2.2 miles long and flows through Grand County.

On November 14, 2010, the Division 5 Water Court decreed an instream flow water right to the CWCB on Troublesome Creek in Case No. 09CW062 for 9.3 cfs (April 1 – October 31), and 5.9 cfs (November 1 – March 31) with an appropriation date of January 27, 2009. The upstream terminus is the confluence with Rabbit Ears Creek and the lower terminus is the Pickering Ditch headgate. This ISF reach is approximately 3.0 miles long and flows through Grand County.
On December 1, 2010, the Division 2 Water Court decreed an instream flow water right to the CWCB on Baldwin Creek in Case No. 10CW055 for 6.5 cfs (May 15 – August 31), 3.5 cfs (September 1 – October 31), 1.8 cfs (November 1 – February 29), 0.9 cfs (March 1 – April 15) and 1.8 cfs (April 16 – May 14) with an appropriation date of January 26, 2010. The upstream terminus is the outlet of Baldwin Lake and the lower terminus is confluence with Chalk Creek. This ISF reach is approximately 5.04 miles long and flows through Chaffee County.

On December 1, 2010, the Division 2 Water Court decreed an instream flow water right to the CWCB on Middle Creek in Case No. 10CW056 for 3.4 cfs (April 15 – June 30), 2.0 cfs (July 1 – August 31), 2.0 cfs (July 1 – August 31), and 1.0 cfs (September 1 – April 14) with an appropriation date of January 26, 2010. The upstream terminus is the headwaters and the lower terminus is confluence with Ophir Creek. This ISF reach is approximately 4.78 miles long and flows through Custer County.

On December 1, 2010, the Division 2 Water Court decreed an instream flow water right to the CWCB on Middle Creek in Case No. 10CW057 for 5.1 cfs (April 1 – August 31), and 2.8 cfs (September 1 – April 14) with an appropriation date of January 26, 2010. The upstream terminus is the confluence with Ophir Creek and the lower terminus is Beulah Water Works Diversion. This ISF reach is approximately 6.72 miles long and flows through Custer and Pueblo Counties.
On January 5, 2011, the Division 1 Water Court decreed an instream flow water right to the CWCB on Black Hollow Creek in Case No. 10CW207 for 2.2 cfs (May 1 – September 30), 1.4 cfs (October 1 – November 15) and 0.75 cfs (November 16 – April 30) with an appropriation date of January 26, 2010. The upstream terminus is the headwaters and the lower terminus is confluence with the Cache La Poudre River. This ISF reach is approximately 5.49 miles long and flows through Larimer County. (*Rob Viehl*)

STREAM AND LAKE PROTECTION SECTION DE MINIMIS CASES: The following table summarizes the applications that have the potential to injure the Board's instream flow water rights, but their impacts are considered de minimis. In each of these cases, the cumulative impact to the Board's rights is 1% or less. Pursuant to ISF Rule 8(e) (the de minimis rule), staff has not filed Statements of Opposition in these cases and has provided the required notification to the Division Engineer and applicants. (*Don West*)

Case No.	Applicant	Stream/ Case Number	ISF Amount	Percent Injury	Cumulative % Injury	Previous Cases

7-10CW061	Mark & Martha Carnes	Florida River/ 77W1763	7 cfs (summer) 14 cfs (winter)	0.0347 % 0.0049 %	0.8975 % 0.4497 %	23
7-10CW061	Mark & Martha Carnes	Florida River/ 77W1764	12 cfs (summer) 20 cfs (winter)	0.0203 % 0.0034 %	0.2046 % 0.0744 %	10
2-94CW005	Jerry & Edith Stritke	Cottonwood Creek/ 2-79CW115	20 cfs (summer) 20 cfs (winter)	0.0012 % 0.0002 %	0.6240 % 0.2989 %	142
2-94CW005	Ronald & Lauren Gillingham	Cottonwood Creek/ 2-79CW115	20 cfs (summer) 20 cfs (winter)	0.0012 % 0.0002 %	0.6252 % 0.2991 %	143

LOAN REPAYMENT DELINQUENCY: Loan Repayments received relative to the Water Project Construction Loan Program have been reviewed for the period covering July 2010 through December 2010. The effective due date of the payment is inclusive of the Board's current 30 day late policy. Hence, the date the payment was received was compared to the last day allowable prior to the payment being considered late.

Repayments due for the first six months of Fiscal Year 2011 totaled 148. There were six loan payments not received on time during this period. The loan payments from Pine River – Bayfield Ditch Company, Delta Canal Company, Fuchs Ranches, Inc., John Peroulis and Sons, Partnership and Shultz Farm, Inc. were less than 30 days late. The loan payment from Kenosha Trout Club was less than 60 days late. The loan payment due in June 2010 for the Coon Creek Reservoir and Ditch Company was received in July 2010. The loan payment due in June 2010 for the Town of Starkville has not been received to date. Thus, the on-time performance for the total repayments due was 96% in compliance or 4% not in compliance.

As additional notes: (1) Rodney Preisser has not met his obligations since Fiscal Year 2007 and has filed Chapter 11 Bankruptcy; (2) the Town of Starkville has not met its obligations since Fiscal Year 2006; and (3) the Pinon Mesa Ranches Community Association's loan is in default and has been referred to the State's Central Collections Services for disposition of the remaining balance. (*Steve Biondo*)

LOAN FINANCIAL ACTIVITY: Loan Financial Activity relative to the Water Project Construction Loan Program for Fiscal Year 2011 is detailed on the following attachment. Funds received relative to loans in repayment totaled $9.3 M for this period. Funds disbursed relative to new project loans totaled $19.1 M for this period. Net activity resulted in $9.8 M disbursed from the CWCB Construction Fund and the Severance Tax Trust Fund Perpetual Base Account (STTFPBA) over the total received.

Further breakdown is summarized as follows: The Construction Fund portion consists of $6.1 M in receivables and $5.1 M in disbursements for a total net activity of $1.0 M received over disbursed. The STTFPBA consists of $3.2 M in receivables and $14.0 M in disbursements for a total net activity of $10.8 M disbursed over received. (*Steve Biondo*)

CWCB WEBSITE STATISTICS: Website traffic for November and December 2010 yielded nearly 275,000 visits, with 57% of visitors viewing only 1 page and 36% of visitors viewing 2-10

pages within the site. The Public Information category saw the most activity (following the home page), at ~44,000 visits, with a majority of those being Board Meeting-related. The Water Management category also saw its fair share of visits (~30,000), mostly focused within the Basin Roundtable pages. The top downloaded files included the November Board Meeting Agenda and the SWSI 2010 Municipal and Industrial Water Conservation Strategies draft report. The United States has taken over as the top country viewing the site (China was previously number one, whose visits were likely hacking attempts), with China, Spain and the Russian Federation as other top countries who show an interest in CWCB's website. (*Ray Alvarado*)

RENEWABLE ENERGY INTEREST RATE: The CWCB Finance Section is considering establishing a special interest rate category for projects with renewable energy components (i.e. hydroelectric). Currently borrowers with hydroelectric projects fall into one of the standard interest rates ranging from 2.75% (agricultural) to 6.25% (commercial). At this time, the Colorado Water Resources and Power Development Authority offers a 2.0% rate for a 20-year term for hydroelectric projects.

In order to be competitive with the marketplace and to better promote the loan program, staff would like the Board to consider establishing a more competitive interest rate for renewable projects. Staff will present this concept in further detail at the March 2011 board meeting. (*Anna Mauss*)

CWCB WATER EFFICIENCY GRANT FUND PROGRAM UPDATE: The OWCDP has awarded two additional grants through the Water Efficiency Grant Fund to the following water providers:

- **Town of Monument**: $36,470 to develop a regional Water Conservation Plan with the Town of Palmer Lake and the Tri-View Metropolitan District.
- **Town of Estes Park:** $34,075 to develop a Water Conservation Plan (*Ben Wade*)

OWCDP HIRES NEW GRANTS COORDINATOR : The OWCDP has a new Grants Coordinator to administer and manage the CWCB's Water Efficiency Grant Program. Deborah Burrell joined the staff on January 3, 2011. Deborah recently worked as a paralegal and has a strong business background from experience in previous positions. Deborah will assist with water conservation planning and will provide grant administration by analyzing grant requests and allocating grant funds available for distribution from the OWCDP. She will act as a liaison for municipal, industrial, agricultural, and other water providers and state agencies as they plan for, evaluate, and implement water conservation plans and programs and/or drought mitigation programs. She will provide administration of financial assistance for water conservation and drought mitigation planning by preparing data for grant financial status reports. (*Veva Deheza*)

DROUGHT TOOLBOX ON CWCB WEBSITE: The Drought Planning Toolbox developed to aid local communities and water providers in drought planning efforts is now live on the website. The toolbox is an introduction to local drought planning and step-by-step guidance for developing local municipal drought management plans as well as Information on drought and climate change, financial assistance for drought response, drought terms and definitions, and useful drought-related links. The latest drought status information can also be accessed through the tool box. It can be found at http://cwcb.state.co.us/technical-resources/drought-planning-toolbox/Pages/main.aspx (*Taryn Hutchins-Cabibi*)

HB1051/DATA COLLECTION WORKING GROUP: On December 3, 2010 the first meeting was held for the HB1051 working group. The initial meeting consisted of members of the WCTAG with a few additional stakeholders. The group will have more members added as it coalesces in January. CWCB staff will provide background materials on other data collection initiatives from other states to the group in order to have some information to work with at the onset. Another meeting is scheduled for January 13th, 2011. (*Kevin Reidy*)

WATER CONSERVATION TECHNICAL ADVISORY GROUP (WCTAG): The WCTAG did not meet during this last time period on normal WCTAG business but did meet regarding HB1051. (*Kevin Reidy*)

SWSI 2010 MUNICIPAL & INDUSTRIAL WATER CONSERVATION STRATEGIES REPORT: The *SWSI 2010 M&I Water Conservation Strategies Report* went through a public comment period ending on December 15, 2010. The OWCDP received over 700 comments on the document. Comments are being addressed at present time and the report will be finalized following the January CWCB Board meeting. The OWCDP, with the assistance of the WCTAG, will be prioritizing next steps for implementation stemming from the recommendations of the *SWSI 2010 M&I Water Conservation Strategies Report*. (*Kevin Reidy*)

FEASIBILITY OF PERMANENCY AND PENETRATION OF WATER CONSERVATION SAVINGS: The OWCDP is finishing up a study with Colorado State University to assess what barriers and opportunities exist at the provider level in order to carry out future conservation savings potential and penetration rates research. Working with a subset of the partner utilities, such as Denver Water, Aurora Water, Colorado Springs Utilities, Westminster and Fort Collins, this project would also include a demonstration of the statistical analysis that can be done with existing information, including illustrating areas of need. Ultimately this future research will help define what the water conservation potential is out to 2050. Initial interviews with Denver Water, Colorado Springs, Aurora Water, Westminster and Fort Collins have been completed along with data gathering and analysis and a report will be finished up in early January. (*Kevin Reidy*)

CONSERVATION PLANNING GUIDANCE DOCUMENT REVISION: A scope of work is being developed that outlines the incorporation of the latest water conservation research into the existing conservation planning guidance documents. The purpose is to update the guidance documents to be more useful to covered entities by incorporating the latest and most relevant water conservation information. (*Kevin Reidy*)

JOINT FRONT RANGE CLIMATE CHANGE VULNERABILITY STUDY: A meeting of project participants took place on November 9th to discuss major changes in the latest draft of the report and participants comments. CWCB staff has also met with lead authors on the report to discuss how comments from CWCB specifically are being addressed. A final version of the report is due out later this year. (*Taryn Hutchins-Cabibi*)

CLIMATE PREPAREDNESS IN COLORADO INITIATIVE: The Climate Preparedness in Colorado Project is wrapping up with a final report to the new administration due in early January. This report is a multi-agency, multi-stakeholder effort to catalog existing and planned efforts on climate change adaptation within the state, in both the public and private sectors. It is intended to be a representative sample of work rather than a comprehensive review of all efforts

statewide and will hopefully help inform the new administration about efforts already underway as well as make recommendations for how those efforts could be enhanced. (*Taryn Hutchins-Cabibi*)

~ATTACHMENTS~

- **01 CWCB Financial Activity Report for Fiscal Year 2011**
- **02 WSRA Applications for Consideration – January 2011**
- **03 Letter to Reclamation Regarding Stocking of Non-Native Fish in Lake Nighthorse, Animas-La Plata Project**
- **04 Secretary Salazar's Speech at Colorado River Water Users Association Annual Meeting, December 17, 2010**
- **05 Letter Regarding Bureau of Reclamation WaterSMART Grant Funding Opportunity Announcements**
- **06 Letter Regarding Bureau of Reclamation Rural Water Supply Program**
- **07 Stream and Lake Protection Section – Annual Program Summary**
- **08 WSRA Pending Projects**
- **09 WSRA In Progress Projects**
- **10 WSRA Completed Projects**
- **11 WSRA Balance December 2010**
- **12 Finance Section – Change to Existing Loan Design & Construction Status Report**
- **13 Instream Flow and Natural Lake Program – Summary of Resolved Cases**
- **14 DOI Press Release Regarding US – Mexico Water Agreement**
- **15 Minute No. 318 – Water Agreement to Support Response to Mexicali Valley Earthquake**
- **16 Background Information on the Paradox Salinity Control Unit**
- **17 Letter and Memorandum of Understanding – Gunnison Basin Selenium Management Plan**

Attachment 1

COLORADO WATER CONSERVATION BOARD

FINANCIAL ACTIVITY REPORT

FOR FISCAL YEAR 2011

CONSTRUCTION FUND

Period	Principal	Interest	Total Received	Disbursements	Net Activity
July 2010	$ 1,018,821	$ 828,872	$ 1,847,693	$ 10,030	$ 1,837,663
August 2010	$ 357,433	$ 299,564	$ 656,997	$ 560,834	$ 96,163
September 2010	$ 372,148	$ 321,220	$ 693,368	$ 423,703	$ 269,666
October 2010	$ 211,181	$ 313,430	$ 524,611	$ 1,446,480	$ (921,869)
November 2010	$ 147,737	$ 121,412	$ 269,149	$ 1,276,830	$ (1,007,680)
December 2010	$ 596,351	$ 1,454,982	$ 2,051,333	$ 1,342,006	$ 709,327
January 2011	$ -	$ -	$ -	$ -	$ -
February 2011	$ -	$ -	$ -	$ -	$ -
March 2011	$ -	$ -	$ -	$ -	$ -
April 2011	$ -	$ -	$ -	$ -	$ -
May 2011	$ -	$ -	$ -	$ -	$ -
June 2011	$ -	$ -	$ -	$ -	$ -
FY 2011 Totals	**$ 2,703,671**	**$ 3,339,481**	**$ 6,043,152**	**$ 5,059,882**	**$ 983,270**

SEVERANCE TAX TRUST FUND PERPETUAL BASE ACCOUNT

Period	Principal	Interest	Total Received	Disbursements	Net Activity
July 2010	$ 85,256	$ 130,515	$ 215,771	$ 12,199,749	$ (11,983,978)
August 2010	$ 173,293	$ 126,076	$ 299,369	$ 105,572	$ 193,797
September 2010	$ 465,534	$ 543,964	$ 1,009,498	$ 151,578	$ 857,920
October 2010	$ 66,510	$ 255,872	$ 322,382	$ 715,865	$ (393,483)
November 2010	$ 125,494	$ 100,390	$ 225,884	$ 254,425	$ (28,541)
December 2010	$ 400,818	$ 762,742	$ 1,163,560	$ 618,051	$ 545,509
January 2011	$ -	$ -	$ -	$ -	$ -
February 2011	$ -	$ -	$ -	$ -	$ -
March 2011	$ -	$ -	$ -	$ -	$ -
April 2011	$ -	$ -	$ -	$ -	$ -
May 2011	$ -	$ -	$ -	$ -	$ -
June 2011	$ -	$ -	$ -	$ -	$ -
FY 2011 Totals	**$ 1,316,904**	**$ 1,919,560**	**$ 3,236,465**	**$ 14,045,241**	**$ (10,808,776)**
GRAND TOTALS	**$ 4,020,576**	**$ 5,259,041**	**$ 9,279,617**	**$ 19,105,123**	**$ (9,825,506)**

Water Supply Reserve Account Applications for Consideration at the CWCB January 2011 Board Meeting

Basin	Applicant	Name of Water Activity	Date Received	CWCB Meeting	Basin Account Request	Statewide Account Request	Total Request	Type of Water Activity
Arkansas	Purgatoire River Water Conservancy District	Trinidad/Purgatoire River Reach 4 Demonstration Project	11/13/2010	Jan-11	$75,000	$0	$75,000	Structural and Non-structural water activity
Arkansas Basin Total Requests					**$75,000**	**$0**	**$75,000**	
Metro	Colorado Foundation for Water Education	Educating Denver Metro elected officials and decision makers on solutions-oriented water supply planning	11/23/2010	Jan-11	$14,820	$0	$14,820	Non-structural water activity
Metro Basin Total Requests					**$14,820**	**$0**	**$14,820**	
North Platte	Walden Reservoir Company	Structure for Water Control	11/24/2010	Jan-11	$36,000	$0	$36,000	Structural water project
North Platte	Colorado Foundation for Water Education	Solicitation of stakeholder input through production of a North Platte Basin education package	11/24/2010	Jan-11	$14,040	$0	$14,040	Non-structural water activity
North Platte Basin Total Requests					**$14,040**	**$0**	**$14,040**	
Rio Grande	Manassa Land and Irrigation Company	Conejos North Branch Water Conservation and Management	11/8/2010	Jan-11	$75,000	$0	$75,000	Structural project or activity
Rio Grande	The Colorado Rio Grande Restoration Foundation and McDonald Ditch Company	The McDonald Ditch and Plaza Project – Phase I - Planning	11/23/2010	Jan-11	$40,000	$0	$40,000	Studies or analysis of structural, nonstructural, consumptive, and nonconsumptive water project
Basin Total Requests		**River Basin**			**$115,000**	**$0**	**$115,000**	
Water Supply Reserve Account Total January Requests					**$218,860**	**$0**	**$218,860**	

Animas-La Plata Operation, Maintenance and Replacement Association
103 Everette Street
Durango, CO 81303

October 18, 2010

Mr. Larry Walkoviak
Regional Director, Colorado Region
U.S. Bureau of Reclamation
125 South State Street, Room 6107
Salt Lake City, UT 84138-1102

Subject: Stocking of Non-Native Fish in Lake Nighthorse, Animas-La Plata Project

Dear Larry:

The Animas-La Plata Operation, Maintenance and Replacement Association (Association) is contracting agency for the operation for the Animas La-Plata Project. Association members include Southern Ute Indian Tribe, Ute Mountain Ute Tribe, Navajo Nation, La Plata Conservancy District (NM), Colorado Water Resources and Power Development Authority, and the San Juan Water Commission.

The Colorado Division of Wildlife (CDOW) has developed a draft Lake Management Plan that includes stocking Lake Nighthorse not only with trout, but also large mouth bass, black crappie, and bluegill. In addition, in order to control the population of white sucker in Lake Nighthorse that inadvertently entered the reservoir from the Animas River via the pumping plant, CDOW is considering introducing tiger muskie and/or saugeye. It is our understanding that for the stocking to take place, Reclamation has to grant permission for such stocking to occur, a federal action subject to the Endangered Species Act.

The subject of stocking of non-native fish in Lake Nighthorse was discussed at the September 23, 2010 meeting of the Coordination Committee, the governing committee of the San Juan River Basin Recovery Implementation Program. Several members of the Association either

participate directly or are represented on the Coordination Committee. At that meeting, the representative to the Coordination Committee from U.S. Fish & Wildlife Service Region 6 stated that if a federal decision resulted in stocking of non-native fish other than trout in Lake Nighthorse, the Service will reinitiate ESA Section 7 Consultation on the Animas-La Plata Project.

The Association is unanimously and adamantly opposed to any action, decision, or concurrence by Reclamation regarding stocking of non-native fish in Lake Nighthorse that would result in re-initiation of consultation on the Animas-La Plata Project.

In the final supplemental EIS, Reclamation included the following environmental commitment regarding stocking of fish at Ridges Basin Reservoir:

"Reclamation will commit to providing trout to be stocked at Ridges Basin Reservoir to provide a recreational fishery. The source of fish could be from an existing Colorado River Storage Project (CRSP) hatchery facility or from the acquisition and/or construction of a new hatchery facility. This commitment is for the purposes of enhancing the fishery at Ridges Basin Reservoir." Animas-La Plata Project, Final Supplemental Environmental Impact Statement, Volume 1, July 2000, Chapter 5, Purpose and Need, Recommendations and Commitments, Page 5-15, Section 5.4.6 Aquatic Resources Commitments.

Because the commitment to stock Lake Nighthorse with trout was made in the Animas-La Plata Project Final Supplemental Environmental Impact Statement, the Association is greatly concerned that stocking other species, especially those detrimental to endangered species, could lead to reopening of the NEPA process. The Association objects to Reclamation taking any action with respect to fish stocking which could result in the reopening of the NEPA process.

CDOW Draft Management Plan: The CDOW draft Lake Management Plan has not been made public, nor has it been reviewed by anyone outside of the Colorado Division of Wildlife. Apparently, it is under internal review. However, meetings on the draft Lake Management Plan apparently have taken place on three different occasions with Bureau of Reclamation, FWS, and

"ALP representatives." While the draft Plan was discussed with ALP representatives, the consequences of this draft Management Plan were not made known to the Association until the Coordination Committee meeting on September 23.

In response to concerns raised at the Coordination Committee meeting, Mr. Jim White, CDOW, provided a memo via email to Ms. Rebecca Mitchell, Colorado Department of Natural Resources (copy attached). CDOW states in this memo:

- That large mouth bass, black crappie, and bluegill are three species particularly adapted to a lake environment that "typically" do not fare well in a river if they were to escape. These species would pose the "LEAST possible danger" to downstream recovery goals.
- Lake Nighthorse is infested with white sucker that entered from the Animas River through the pumping plant and one of the best biological controls is introduction of either or both tiger muskie or saugeye in the reservoir.
- Any stocked fish would likely be killed by fish escapement control structure in the Lake Nighthorse outlet.
- CDOW rationalizes that to avoid "illegal introduction of fish," some reasonable "stocking compromise" is needed to implement the recovery goals, "while at the same time satisfying the anglic public to a degree," and asserts that this "is good fish management in my opinion."

We offer the following comments:

1. We have been told by fisheries biologists that while the fish escapement control device at Lake Nighthorse will preclude escapement of larger fish, there may be escapement of some smaller fish, larvae and/or eggs into the environment below Lake Nighthorse. The risk of introducing additional non-native fish into the San Juan basin is not acceptable. The San Juan River Basin Recovery Implementation Program (SJRIP) is spending approximately $500,000 per year removing non-native fish (catfish and carp) from the warm water reaches of the San Juan River in an effort to achieve recovery goals of endangered fish. The major impediment to

recovery of endangered fish is the presence of excessive numbers of non-native fish in the San Juan River. Increasing the potential for exacerbating this threat is not acceptable.

2. The San Juan Recovery Program provides ESA compliance not only for the Animas-La Plata Project, but for every other water project in the San Juan basin, including federal projects, Indian projects, and non-Indian projects depleting approximately 800,000 acre-feet per year. Maintaining this ESA compliance is contingent not only upon the Recovery Program carrying out certain actions such as fish passages, screens, stocking, non-native fish control, etc., but also in improving the status of the species. Stocking of additional non-native species in the basin not only potentially affects the status of the species, but could also jeopardize ESA compliance for these projects and the overall success of the San Juan Recovery Program.

3. Our biologists have informed us that while tiger muskie and saugeye are usually sterile, this is not always the case. There is no 100 percent guarantee that these fish will not reproduce. If that occurs, larvae and eggs could escape downstream. Introduction of two additional warm water species into the basin is unacceptable (see attached USFWS assessment of saugeye stocking in the Upper Colorado River basin and San Juan basin).

4. While it is unfortunate that inadvertent introduction of white sucker occurred into Lake Nighthorse, introducing additional non-native fish to control these species is not acceptable. Other methods of controlling white sucker populations need to be examined and implemented.

5. CDOW rationalizes that if the Lake Management Plan is not implemented, illegal stocking will likely take place. However, there is a vast difference, from a regulatory standpoint, between illegal stocking and a decision by Reclamation to allow stocking of non-native fish in Lake Nighthorse. Illegal stocking would not likely trigger reopening of consultation by U.S. Fish & Wildlife Service. A decision by Reclamation to allow such stocking would definitely result in a reopening of the consultation and, perhaps, the NEPA process.

6. CDOW is likely correct that illegal stocking will occur. Illegal stocking occurs in reservoirs throughout western Colorado, regardless of any Lake Management Plan or stocking by CDOW. CDOW's Lake Management Plan will not prevent illegal stocking.

Conclusion: Reclamation should immediately inform CDOW that the draft Lake Management Plan for Lake Nighthorse is unacceptable and discontinue any further discussions regarding stocking of non-native fish into Lake Nighthorse, with the exception of trout. Reclamation should fulfill its environmental commitment by stocking trout – and only trout – in Lake Nighthorse. Reclamation should evaluate other methods of controlling white sucker in Lake Nighthorse that do not involving stocking of additional non-native species.

If you have any questions about our concerns, please feel free to contact me at your convenience.

Sincerely,

L. Randy Kirkpatrick, Chair
Animas-La Plata Operation, Maintenance and Replacement Association

cc: Governor Bill Ritter
Mr. Mike King, Executive Director, Colorado Department of Natural Resources
Dr. Tom Remington, Director, Colorado Division of Wildlife
Ms. Jennifer Gimbel, Colorado Water Conservation Board
Mr. Steve Guertin, Regional Director, U.S. Fish & Wildlife Service, Region 6, Denver
Dr. Benjamin Tuggle, Regional Director, U.S. Fish & Wildlife Service, Region 2, Albuquerque
Mr. David Campbell, Program Coordinator, San Juan River Basin Recovery Implementation Program Coordination Committee, San Juan River Basin
Ms. Carol DeAngelis, Western Colorado Area Office, U.S. Bureau of Reclamation

COPY: Page 1 of 2

From: White, Jim
To: Mitchell, Rebecca
Cc: Nesler, Tom; Alves, John; Gerlich, Greg; Dorsey, Patt; Spezze, Tom
Sent: Tue Sep 28 17:21:34 2010
Subject: RE: ALP, lake nighthorse and the San Juan RIP

Hi Becky,

Thank you for passing on the information regarding non-native fish management by the CDOW as it pertains to the Upper Colorado and San Juan Endangered Fish Recovery programs. Although I can't speak to the concerns expressed about the Upper Colorado non-native stocking and management efforts, I can address some misinformation about Lake Nighthorse and our DRAFT Lake Management Plan.

- First, we follow the Upper Colorado Non-Native Stocking procedures for stocking warm water non-native sportfishes because the SJRIP does not have a formal agreement with the State. This agreement between the State and FWS sets up a committee that reviews and approves Lake Management Plans that contain non-native warm water fish stocking request. Trout stocking does not require an approved Lake Management Plan (LMP). We do not intend to circumnavigate this process and just unilaterally go stock any fish of our choosing.

- Second, we have met on now 3 different occasions with the BOR, FWS (both SJRIP and UCRIP), and A-LP representatives to discuss our DRAFT Lake Management Plans. In this DRAFT plan we outline the proposed list of warm water non-native species of fish that include largemouth bass (not smallmouth), black crappie, and bluegill. All three of these fish species are particularly adapted to a lake environment and typically do not fare well in a river IF they were to escape (see next bullet). These warm water fish species were chosen intentionally because they would do well given the expected lake habitat and may satisfy anglers desire for warmwater fishes while posing the LEAST possible danger to downstream recovery goals. Smallmouth bass can do quite well in a river environment if they escaped. We, like everyone else, do not want them in the reservoir.

- Third, the Lake Nighthorse is infested with white sucker (they came from the Animas River through the pumping plant). White sucker pose a big problem to our native bluehead and flannelmouth sucker populations as well as endangered razorback sucker thorough hybridization and/or competition for resources. One of the best biological controls, since chemical or physical removal is not possible at this point, are "tiger muskie". A tiger muskie is a northern pike crossed or hybridized with a muskellunge. The result is a sterile fish capable of consuming large numbers of white suckers. These fish are stocked at a minimum size of 8 inches. IF one was to be entrained into the outlet structure of Lake Nighthorse it would be physically ripped apart because the outlet runs water

through about a 3/8 inch metal screen under very high pressure. I say IF because other escapement safeguards include NO SPILLWAY (this is how most fish escape a reservoir during emergency spills) and an outlet intake positioned deep down and out in the middle of the reservoir where few fish would venture in the first place. So the chances of an 8 inch long (minimum size tiger muskie – not northern pike) surviving passage is virtually 0. Finally, the same BOR research biologist tasked with conducting the outlet or "screen valve" evaluation was also recommending stocking tiger muskie to control white sucker, so the BOR should be well aware of the difference between a northern pike and tiger muskie. We also raised the possibility of stocking another hybrid/sterile fish species called a saugeye. This is a walleye/sauger sterile mix stocked as fish predator. Both the Upper Colorado NN stocking protocol and the DRAFT SJRIP NN stocking protocol permit the stocking of hybridize fish species for nuisance fish species control.

· Finally, the absence of a spillway, presence of a sleeve valve in the outlet, and depth of the intake structure were not an accident. They were carefully designed into the project in anticipation of non-native fish finding their way into the reservoir whether legally or illegally. We all want to avoid an illegal introduction of fish. Virtually every reservoir around the State and Nation has experience some sort of illegal fish introduction when anglers take matters into their own hands. It is folly to think Lake Nighthorse would be any different. By reaching some reasonable fish stocking compromise for Lake Nighthorse that satisfies the FWS need (and our CDOW native fish management needs) to implement their recovery goals while at the same time satisfying the angling public to a degree is good fish management in my opinion.

I hope this helps clear up some of the misunderstanding and misinformation surrounding the DRAFT management plans for Lake Nighthorse. We intend to circulate the DRAFT LMP internally for review shortly before submitting the plan to the FWS. Please feel free to contact me if you have any further questions.

Thanks,

Jim White
Colorado Division of Wildlife, Aquatic Biologist
151 E. 16th Street, Durango, CO 81301
(970) 375-6712 (office)
(970) 903-1073 (cell)

Perspective on the stocking of saugeye (walleye *Sander vitreus* x sauger *S. canadensis*) in the Upper Colorado River Basin

Saugeye (walleye *Sander vitreus* x sauger *S. canadensis*) have been suggested for introduction into three Upper Colorado River Basin (UCRB) reservoirs in western Colorado by the Colorado Division of Wildlife: Crawford Reservoir in the Gunnison River Basin, Lake Nighthorse (LNH) in the San Juan River Basin(SJRB) and Rifle Gap Reservoir in the Colorado River Basin. The introduction of this hybrid into the UCRB would fall under the provisions or guidance (SJRB) outlined in the Procedures for Stocking Nonnative Fish Species in the Upper Colorado River Basin (Stocking Procedures; 2009).

Several concerns are raised by the prospect of introducing this hybrid into the UCRB:

1. Saugeye are not sterile and have been documented to reproduce with other saugeyes or with walleyes (Fiss et al. 1997, White et al. 2005). The NNFSP specify that the use of triploid or hybrid sterile fish may be considered as a management tool to control nonnative fish species. Fertile saugeye do not fulfill this precaution.

2. The addition of saugeye, a novel, fertile hybrid, nonnative predatory fish species containing genetic material new to the UCRB with unknown behavioral characteristics or invasive capacity within critical habitat, risks further introduction or establishment elsewhere in the UCRB via illegal movement. Information to induce and evaluate triploidy in saugeye is readily available (Garcia-Abiado et al. 1999, 2001) and would need to be employed to maximize saugeye sterility before the hybrid would be considered for stocking in the UCRB.

3. Saugeye are considered to highly adaptable to a variety of reservoir and river conditions, are more tolerant of turbid conditions than walleye, and may be more migratory and suited to lotic habitats than walleye (Johnson et al. 1988; Spoelstra et al. 2008). These observations suggest that saugeye may pose more of an invasive threat of establishment and predation in UCRB critical habitat than walleye.

4. Larval saugeye tend to display better survival and recruitment than larval walleyes, possibly attributable to their more effective anti-predator behavior (Quist and Guy 2004), which may facilitate their spread, persistence or increase in critical habitat. Further, saugeye consume a wider variety of prey fishes than walleyes, including bottom-oriented species (Johnson et al. 1988), suggesting several native UCRB fishes may be vulnerable to predation by saugeye.

It is often recommended that saugeye not be stocked in waters which contain native walleye or sauger populations or in walleye or sauger brood sources which sustain hatchery and stocking programs for these species. Such policies attest to the fertility of

saugeye and are intended to prevent interbreeding with saugeye, preserving the genetic integrity of native percids or percid broodstocks (Quist and Guy 2004; White 2005). Further, it has been recommended that managers refrain from stocking saugeye in systems where there is concern for native lotic fish communities in connected drainages (Spoelstra et al. 2008).

The stocking of certain predatory species in warmwater fisheries in the UCRB is accommodated in the Stocking Procedures through the use of sterile fishes which are the product of hybridization and/or triploidy. The Colorado Division of Wildlife is encouraged and advised to meet its management needs and public desire for these fishery components through the use sterile predators to minimize their potential impact if they reach critical habitat for endangered fishes.

References:

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Speech

Remarks prepared for the Colorado River Water Users Association annual meeting

12/17/2010

Las Vegas, Nevada

Thank you.

I want to recognize Assistant Secretary for Water and Science Anne Castle. I have known Anne for years, and she is a terrific leader who brings thoughtful, pragmatic solutions to the table. Her years of experience on water issues in the West have made her a natural leader on the many Colorado River water issues we collectively face. I appreciate her leadership at Interior in making sure the United States provides a sensible, coherent voice on Colorado River issues.

I also appreciate Mike Connor and his knowledge and common-sense leadership of the Bureau of Reclamation. Mike has done exceptional work for the Department of the Interior. Mike is a true problem-solver who has the uncanny ability to cut through the weeds to identify solutions that work for all parties. He's a great asset to the Department and we are lucky to have a public servant like him working on our behalf.

It is great to see so many familiar faces in the audience. I have worked with you as Executive Director of the Colorado Department of Natural Resources, Colorado Attorney General, and U.S. Senator and now as your Secretary of the Interior. Coming to the Colorado River Water Users Association conference feels a lot like home, far away from the partisan bickering of Washington, D.C. Here we see each other not as Republicans and Democrats, but as comrades in arms in addressing the difficult challenges on the Colorado River.

When President Obama asked me to become Secretary of the Interior, he asked that I work to help people and communities – urban and rural – to solve problems regardless of whether those communities were blue, red or purple.

At the Department of the Interior, we have the awesome task of serving as custodian of America's cultural heritage and its natural resources. Nowhere is this more evident than on the Colorado River. From the headwaters of the river in Rocky Mountain National Park, to the border with Mexico, we are stewards of 11 national parks, 7 national wildlife refuges, and millions of acres of land in trust for Native American tribes. The water projects operated by the Bureau of Reclamation provide drinking water for 25 million people and irrigation for the entire southwest. Our responsibilities on the Colorado River are far reaching and cut across the issues that all of you are involved in.

I grew up in the San Luis Valley in Southern Colorado, not far from the New Mexico border. To the east are the Sangre de Cristo Mountains. To the west are the San Juans. And our land was crossed by tributaries of the great Rio Grande. For five generations, my family has farmed and ranched the same lands, relying on the waters of the river to sustain our way of life. For my parents, and for their parents and their grandparents, water was the lifeblood of our community.

And, like so many communities, when the waters would run low or dry up, we faced hard times and frequent water wars. That is why as I have often flown over the Colorado River and Lake Mead, and see Lake Mead at its lowest level in its history and further declining in elevation, I fear the hardships and conflict that could arise.

As I speak to you today, the Colorado River is facing a record drought. The period between 2000 to 2010 has been the driest 11-year period in the 102-year historical record for the Colorado River Basin. Moreover, scientists who examined tree-ring data estimate that this period is one of the driest in the Basin in over 1,000 years.

And there are no clear signs of an end to this drought. The countless communities that rely on the river to sustain them are being forced to make tough choices at a time with few obvious solutions in sight.

Moreover, as we enter our second decade of drought conditions, another reality complicates the picture: climate change and its emerging challenges—challenges that we are only just beginning to understand-- may dwarf in complexity the issues that the Basin States have faced so far. Some estimates have identified a risk of a 20-30 percent decline in available water supplies in this Basin due to climate change.

Those of you in this room know how those who came before us divided the water of the Colorado River and overestimated the average yield. And with record droughts and the reality of climate change further shrinking available water supplies, we will have to work together like never before to solve these water challenges. In that regard, I pledge to you the full cooperation of the Department of the Interior.

As we chart the future, we can turn around and go back to the ways of river management of the past, where it was too often every state for itself, and every stakeholder only looking out for him or herself. We can re-create the water wars of the last century.

Or we can continue to move forward together down the road of long-term, cooperative river management in which the seven Basin States, the federal government, and the many other stakeholders partner to find creative solutions to tough problems.

Although it may not be the easy road, I think I can safely speak for most everyone here when I say that the road of cooperation is the right one to take.

We must choose consensus over controversy.

We must pick collaboration with each other over clobbering one another.

We must build a water policy that is inclusive of all interests – urban, agriculture, tribal, recreational, and environmental – and where all parties recognize that the other has an equal stake in keeping the river healthy.

If we succeed in this - and I'm confident that we can – we will find a way to transform the challenges of today into opportunities for tomorrow.

As many of you know, I am not a newcomer to this issue.

When I was Director of Natural Resources for Colorado in the 90's, California was experiencing drought conditions. I served as Colorado's representative to help initiate a 7-state consensus process to deal with concerns that California was using the Colorado River in excess of its allocation.

The successful effort to deal with what many thought to be an intractable problem took hard work. I visited all seven state capitals and participated in countless meetings. But out of those

meetings we developed a commitment to shared problem solving. My successors forged solutions – and avoided multi-state litigation.

As they built relationships among the Basin's leaders, they also built consensus around the ways to address California's use of the Colorado River.

Twenty years later – and facing a not-so different situation – I think we can use some of the same tools to tackle the problems of today.

This includes respecting the Law of the River as the cornerstone of our work.

This means understanding the importance of face-to-face meetings and strong relationships built on respect and trust.

And it means balancing what's best for one party in the short-term with what's best for the Colorado River Basin in the long-term.

We are already employing some of these tactics in our work at the Department of the Interior.

With our new WaterSMART program, we are working with stakeholders to build a sustainable water supply through various grant programs. We are performing a national water census – the first one done since 1978 – which will enable us to rely on facts and up-to-date science when it comes to making important decisions.

In the Lower Colorado Region, we are more than halfway through a one-year pilot project at the Yuma Desalting Plant, one of the world's largest reverse osmosis desalination plants. I was in Yuma a few weeks ago to check on the operation. It is a success.

At the halfway point, the plant had already recovered more than 16,000 acre-feet of water, which were included in water deliveries to Mexico and helped reduce the demand on Lake Mead.

We anticipate that the test run of the Yuma Desalting Plant will conclude this spring under-budget and ahead-of-schedule, with nearly 30,000 acre-feet of water recovered.

The Yuma Desalting plant serves as an excellent example of how we can build upon the successes of interstate and bi-national agreements to meet our water needs both now and in the future.

Not far from Yuma is another project made possible through shared funding and expertise. The Brock Reservoir – located just north of the All-American Canal - is in initial operation. The reservoir is already saving water during its testing phase and is designed to save tens of thousands of acre-feet of water each year through its operations, further reducing the draw on Lake Mead.

Collaboration is also enabling us to turn our attention to the important environmental issues on the Colorado River. To date, the Lower Colorado River Multi Species Conservation Program has stocked nearly 150,000 endangered razorback sucker and bonytail fish into the Colorado River system. It has restored 255 acres of valuable marsh and backwater habitat. It has planted more than 1000 acres of cottonwood-willow and mesquite and provides continuing research and monitoring of the 26 species that rely on the river system.

And the Upper Colorado Recovery Program is making major strides in protecting the four endangered fish on the Upper Colorado through significant habitat improvements.

In the Grand Canyon National Park and Glen Canyon Dam, we are also making important progress.

Thanks to Anne Castle, who spoke to you about this administration priority at last year's conference, we have reinvigorated the Adaptive Management Program for the Glen Canyon Dam.

First, we are developing a protocol for conducting additional high-flow experiments at Glen Canyon Dam over a ten-year period beginning in 2011. In a few days we will release a draft environmental assessment that analyzes the effects of implementing this protocol and your review and input of this draft will be valuable as we move forward.

Second, we listened to Tribal concerns regarding cultural impacts of fish management in areas considered sacred by a number of Tribes. Following government-to-government consultation, we are working to balance our respect for the cultural and religious tribal concerns, while also meeting our obligations under the Endangered Species Act.

We are committed to working collaboratively to address the complex issue of control and removal of non-native fish in the Colorado River below Glen Canyon Dam. A draft environmental assessment is being developed to evaluate a wide range of possible actions that could reduce the predation on endangered fish in the river, and the assessment will be released in the next few days to cooperating agencies for their review.

Third, we've made an extraordinary amount of progress in moving forward on the development of qualitative goals – called "Desired Future Conditions" for the Glen Canyon Program. We believe that development of these targets and milestones is both overdue and essential to the success of this program.

All Glen Canyon stakeholders should have an understanding of where the program is headed, and we should have targets against which to measure our performance.

Fourth, we are developing a long-term experimental and management plan for Glen Canyon Dam. We must build upon what we have learned from the experimentation and the enormous body of science obtained under the Adaptive Management Program during the past 15 years.

Beginning in early 2011, Interior will work with the Adaptive Management Program stakeholders to develop a flexible plan to allow for future adaptation as we move forward.

Collaboration has been the key to all of these Glen Canyon milestones.

Finally, when I met with the representatives of the seven basin states in Phoenix this October, we spoke of the ongoing work to develop a bi-national cooperative program with Mexico on the Colorado River.

Although we are doing much on the domestic front to address changing water supplies and to prepare for low-reservoir conditions, we must also find ways in which Mexico and the United States can continue to advance our water management efforts.

Since then, together with the U.S. and Mexico International Boundary and Water Commission, we have been working closely with our counterparts in Mexico to develop a structure that honors our 1944 water treaty while also encouraging fair and responsible water-sharing. Today, we are close to reaching an important agreement with Mexico. I am traveling to Mexico City this weekend to discuss these Colorado River matters, as well as other natural resource topics of interest to both countries.

As most of you know – and perhaps as many of you personally felt – a major earthquake hit the Mexicali Valley in northern Baja California last April. The earthquake resulted in a loss of life and and injuries as well as badly damaged roads, buildings, canals and other irrigation infrastructure. The damage will prevent Mexico from being able to fully use its Colorado River supply.

Knowing this, are working together as neighbors and partners to find a solution whereby Mexico would be able to defer delivery – temporarily – of a portion of its Colorado River water as its canals and pipelines are repaired.

Finalizing an agreement on this arrangement is very important. Not only are we able to collaborate with Mexico as good neighbors should, but we are also having candid discussions on a number of issues that are critical to our collective interest in long-term operations on the Colorado River, including ways to address potential shortages, cooperating on new water supplies, and protecting our environment.

We want to build on the progress and momentum created this year to secure a comprehensive agreement for binational cooperation on the Colorado River that will address the ongoing challenges in the basin, including drought and climate change.

To conclude, the challenges facing the Colorado River Basin are immense in size and scope.

And all of us in this room know that there is no simple solution, no silver bullet, to resolve our looming water management issues.

But I am optimistic about our future together.

I have witnessed firsthand the recent trajectory of water management on the Colorado River. Where once there were only battles, there now is a structural framework for collaborative solutions. Where other river basins are mired in conflict, the Colorado River Basin serves as a working model for multi-state cooperation.

Perhaps that's because collaboration is the way of the West. To survive out here, settlers had to work together. To raise a barn, you needed the helping hands of your neighbors. To build a ditch to irrigate your crops, you needed the partnership of other farmers. When fires or droughts threatened communities, folks had to band together.

So, just as the Colorado River binds our communities, so too does the power of cooperation. We know it will take an 'all hands on deck' approach to keep our river healthy today and for the generations to come.

Thank you for all your dedication and partnership to contribute to thoughtful and comprehensive solutions.

Attachment 5

United States Department of the Interior

BUREAU OF RECLAMATION
Great Plains Region
Eastern Colorado Area Office
11056 West County Road 18E
Loveland, Colorado 80537-9711

RECEIVED
DEC 27 2010
Colorado Water Conservation Board

IN REPLY REFER TO:

EC-1310
ADM-13.00

DEC 21 2010

To: Potential Applicants

Subject: WaterSMART Grant Funding Opportunity Announcements

Dear Interested Party:

This letter is to notify your organization to the availability of three WaterSMART Funding Opportunity Announcements. The WaterSMART (Sustain and Manage America's Resources for Tomorrow) program is intended to address the most significant challenges facing our water supplies in the 21st century, including population growth, climate change, rising energy demands, environmental needs, and aging infrastructure. Additional information is also available on the WaterSMART website at http://www.usbr.gov/WaterSMART/.
On December 13, 2010, the Bureau of Reclamation announced the availability of two WaterSMART Title XVI Reclamation and Reuse Program funding opportunities. The Title XVI program focuses on identifying and investigating opportunities to reclaim and reuse wastewater and naturally impaired ground and surface water in the 17 Western States and Hawaii. It has the potential to stretch water supplies using time-tested methodologies and piloting new concepts.
The first opportunity is open to sponsors who have already had their projects authorized by Congress under Title XVI of Public Law 102-575, as amended. Sponsors of authorized projects may submit proposals for funding of project phases that can be completed within 2 years or proposals for funding of qualifying construction activities that have already been completed. This announcement can be found on www.grants.gov under funding opportunity number R11SF80311.

The second opportunity is available for development of Title XVI feasibility studies for proposed water reclamation and reuse projects located within the 17 western states and Hawaii. Applicants are invited to submit proposals for cost-shared funding (50-percent non-federal funding/50-percent federal funding) that can be completed in 1 year. This announcement can be found on www.grants.gov under funding opportunity number R11SF80310.

Additionally, Reclamation announced that a Water and Efficiency Grant funding opportunity is available on www.grants.gov under the funding opportunity announcement number R11SF80303. Reclamation is seeking proposals under the Water and Efficiency Grant for projects that seek to conserve and use water more efficiently, increase the use of renewable energy in water management, protect threatened and endangered species, facilitate water markets, and carry out other activities to address climate-related impacts on water or prevent any water-related crisis or conflict.

I ask that you review these opportunities and consider initiating a project as part of the Department of the Interior's WaterSMART Program. In addition, please feel free to contact my office for more information about the program, or assistance in completing the application process. Our program coordinator for the Eastern Colorado Area Office is Brian Little. Mr. Little may be reached at either 970-962-4360 or blittle@usbr.gov. We look forward to working with you on future WaterSMART projects.

Sincerely,

ACTING FOR

Carlie A. Ronca
Chief, Resources Division

Attachment 6

United States Department of the Interior

BUREAU OF RECLAMATION
Great Plains Region
Eastern Colorado Area Office
11056 West County Road 18E
Loveland, Colorado 80537-9711

RECEIVED
DEC 28 2010
Colorado Water Conservation Board

IN REPLY REFER TO:

EC-1310
PRJ-8.00

DEC 17 2010

To: Potential Applicants

Subject: Rural Water Supply Program

Dear Interested Party:

At this time, we are inviting your organization to consider initiating an appraisal investigation or feasibility study as part of the Bureau of Reclamation's Rural Water Supply Program. Reclamation established the Rural Water Supply Program to work with small communities, including Indian tribes, on a cost-share basis to explore opportunities to supply water for domestic, municipal, and industrial uses in rural areas.

Enclosed you will find Reclamation's press release for the Rural Water Supply Program Funding Opportunity. Additional information is also available on the Rural Water Supply Program website at http://www.usbr.gov/ruralwater/.

If you are aware of other non-Federal entities that may be interested in this new program, we ask that you please forward this information on to them. In addition, please feel free to contact my office for more information about the program, or assistance in completing the application process. Our program coordinator for the Eastern Colorado Area Office is Brian Little. Mr. Little may be reached at either 970-962-4360 or blittle@usbr.gov. We look forward to working with you on the critically important business of providing a quality drinking water supply throughout our rural areas.

Sincerely,

ACTING FOR

Carlie A. Ronca
Chief, Resource Division

Enclosure – 1

Attachment 6

Commissioner's Office
Washington, D.C.

Media Contact: Peter Soeth
303-445-3615

Released On: December 08, 2010

Rural Water Program Funding Opportunity Now Available

The Bureau of Reclamation posted the Fiscal Year (FY) 2011 Rural Water Supply Program Funding Opportunity Announcement today. The grant announcement is available on www.grants.gov using funding opportunity number R11SF80307.

Reclamation provides assistance for appraisal investigations and feasibility studies for rural water supply projects intended to serve a community or group of communities with domestic, industrial, municipal, and residential water. This assistance helps rural communities assess their potable water needs and identify options to address those needs.

It is expected that one or two new feasibility studies and five to eight new appraisal investigations will be funded through grants, cooperative agreements, and memorandums of agreement. The amount of funding available will be determined once final FY 2011 appropriations are approved.

Eligible applicants include states and political subdivisions of states, such as departments, agencies, municipalities, counties, and other regional or local authorities, Indian tribes or tribal organizations, and entities created under state law that have water management or water delivery authority such as irrigation or water districts, canal companies and any combination of the entities listed above.

Reclamation's work with the selected entities is on a cost-shared basis. For an appraisal study, Reclamation will pay 100-percent up to $200,000 and 50-percent for all costs above that amount. Funding for feasibility studies is cost-shared with Reclamation paying 50-percent of the cost to complete the study. The non-Federal cost-share may be provided in the form of money or in-kind services that Reclamation determines are necessary and reasonable for the conduct and completion of the investigation or study.

A statement of interest is due from all interested applicants by January 31, 2011, at 4 P.M. M.D.T. If it is determined that you meet the eligibility and prioritization criteria, you will be asked to submit a full proposal. Full proposals will be due by April 4, 2011, at 4 P.M. M.D.T.

To learn more about Reclamation's Rural Water Program and this Funding Opportunity Announcement please visit www.usbr.gov/ruralwater.

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Reclamation is the largest wholesale water supplier and the second largest producer of hydroelectric power in the United States, with operations and facilities in the 17 Western States. Its facilities also provide substantial flood control, recreation, and fish and wildlife benefits. Visit our website at www.usbr.gov.

Relevant Links:

Attachment 7

January 2011 Director's Report
Stream and Lake Protection Section Annual Program Summary

Protection of ISF Water Rights

In 2010, Staff reviewed 1,334 water court applications for potential injury to the Board's Instream Flow and Natural Lake Level (ISF) water rights. Of those, Staff found it necessary to file a Statement of Opposition (SOP) in 32 cases to protect the Board's water rights.

Staff applied the De Minimis Rule in 12 cases by not filing statements of opposition. For each of those cases, the applicant and Division Engineer were informed that although CWCB is not a party to the case, the CWCB would rely on the prior appropriation system in enforcing its water right.

For another 4 applications, Staff was able to achieve protection through a letter agreement without filing a formal opposition in the case. In each of those cases, Staff requested and obtained a letter from the applicants' attorney agreeing to include protective language in the decree to prevent injury, and agreeing that if the protective language is not included in the decree, the applicant would not oppose a motion to intervene filed by the CWCB.

In 2010, Staff actively negotiated terms and conditions to protect the Board's ISF water rights in over 36 cases. In the process, 5 trials that were set for 2010 were successfully avoided by completing negotiation of terms and conditions before the trial dates. Additionally, 6 cases were dismissed by the court or withdrawn by the applicants. In summary, a total of 58 cases were resolved in 2010. Staff is currently managing 131 active SOP cases; 69 of which are cases that were filed prior to 2008.

In addition to reviewing water court applications for potential impacts to instream flow water rights, Staff reviewed 77 proposals for Substitute Water Supply Plans that were submitted to the Division of Water Resources (DWR) for approval in 2010. Staff provided detailed comments to DWR for 19 of the proposals in order to ensure instream flow water rights would not be injured by the plans.

The CWCB placed nine calls requesting administration for instream flow water rights in 2010. Staff received more than one hundred low flow warnings from the Satellite Monitoring System, alerting staff that streamflow had dropped below minimum flow decree amounts. Only after examining the warnings, assessing hydrographs, reviewing decrees, reviewing stream priorities, and conferring with Water Commissioners and Division Engineers were calls placed to ensure the ISF rights received water legally entitled under the prior appropriation system. Detailed information for each call can be found on the CWCB website, at http://cwcb.state.co.us/public-information/instream-flow-administrative-calls/Pages/main.aspx.

Attachment 7

Appropriation of New ISF Water Rights

At the beginning of 2010, there were 28 ISF water right applications pending before the Water Court. During 2010, the Board appropriated 30 additional ISF water rights, and applications were filed with the Water Court. Staff secured final decrees in 22 ISF cases, leaving 36 ISF water right applications pending in Water Court. Several of these cases are opposed by other water users and pending action by those objectors. Other cases are pending action by Staff of the Attorney General's Office. None of these cases have been set for trial. Staff will continue to work with the AG's Office, the Water Court and objectors to resolve concerns and to move the cases forward. A summary of all ISF Appropriations is available on the CWCB web site at http://cwcb.state.co.us/environment/instream-flow-program/Documents/Appropriations/SummaryISFAppropriations.pdf

Acquisition of Water, Water Rights or Interests in Water for Instream Flows

During 2010, CWCB Staff received and evaluated 6 Water Acquisition proposals. The proposals were submitted by municipalities, non-profit groups and private individuals. Of the 6 proposals reviewed by staff, two proposals were presented to, and accepted by the CWCB (*Colorado Water Trust-Breem Ditch, and Alamosa River Keepers- Gabino Gallegos Ditch*). Three of the proposals were rejected by Staff due to technical or legal deficiencies. One proposal is still in the review process pending additional information from the proponent. Currently, there are 5 Water Acquisition change cases pending with the Court, and Staff expects a decree to be entered soon in one of the cases *(Division 5- Peabody Ditch)*. A summary of all ISF Water Acquisitions is available on the CWCB web site at ----------

ISF LEGAL PROTECTION					ISF APPROPRIATIONS			
DECREED & RESOLVED SOP CASES			PENDING SOP CASES *December 2010*		DECREED APPROP CASES		PENDING APPROP CASES *December 2010*	
STIPULATED SOP DECREES	LETTER AGREEMENTS/ DE MINIMIS	SOP CASES WITHDRAWN/ DISMISSED	2010 CASES	PRE-2010 CASES	2010 NEW APPROPS	PRE-2010 APPROPS	2010 NEW APPROPS	PRE-2010 APPROPS
36	4/12	6	32	101	3	19	27	9
TOTAL CASES = 58			TOTAL CASES = 133		TOTAL CASES = 22		TOTAL CASES = 36	

WSRA Open Grant Projects - Approved by the Board - Not Yet Contracted

Updated 01/03/11

Basin	County	Applicant	Name of Water Activity	CWCB Meeting	Basin Account Approved	Statewide Account Approved	Total Request	Type of Water Activity	PM
2010 November Board Approvals									
Southwest	Montezuma, Dolores	San Juan Citizens Alliance	A Way Forward: The Dolores River Below McPhee Reservoir	Nov-10	$25,000	$0	$25,000	Study or analysis of nonstructural, nonconsumptive water activity	Jacob
Southwest	La Plata	La Plata River and Cherry Creek Ditch Company	Diversion Improvement Project	Nov-10	$25,000	$0	$25,000	Structural consumptive water project	Todd
Southwest	La Plata	Animas La Plata Water Conservancy District	Recreational Plan for Lake Nighthorse	Nov-10	$25,000	$0	$25,000	Study or analysis of nonstructural water activity	Jacob
Southwest	Montezuma	Dolores Water Conservancy District	Totten Reservoir Hydrographic Survey	Nov-10	$29,500	$0	$29,500	Nonstructural water activity	Greg
Southwest	Archuleta	Aspen Springs Metro District	Aspen Springs Metro Water Filling Station	Nov-10	$30,000	$0	$30,000	Structural consumptive water project	Greg
2010 Sept Board Approvals									
Arkansas	Pueblo	Fountain Creek Watershed Greenway and Flood Control District	Flathead chub movement associated with the Clear Springs Ranch diversion structure in Fountain Creek	Sep-10	$7,000.00	$28,000.00	$35,000	Studies or analysis of structural, nonstructural, consumptive, nonconsumptive water needs, projects	Todd
Colorado	Garfield	Grand River Ditch Company	Grand River Ditch Pipeline	Sep-10	$25,000	**175000/Not apprv'd**	$25,000	Structural project or activity	Todd
Colorado	**Garfield**	**Town of Gypsum**	**L.E.D.E. Ditch and Reservoir Reconstruction**	**Sep-10**	**$50,000**	**$175,000**	**$225,000**	**Structural project or activity**	**Todd**
Metro	**Douglas, Arapahoe**	**South Metro Water Supply Authority**	**Aquifer Recharge Pilot Study**	**Sep-10**	**$0**	**$125,000**	**$125,000**	**Study or analysis of consumptive water project or activity**	**Jacob**
Rio Grande	Alamosa	The Colorado Rio Grande Restoration Foundation	2009 Rio Grande Riparian Stabilization Project - Phase 4	May-10	$50,000 (Approved May 2010)	$98,000	$98,000	Structural and nonstructural project or activity. (Note: Statewide request to be considered at September board meeting)	Greg
South Platte	Morgan, Washington, Logan, Sedgwick	Lower South Platte Water Conservancy District	Lower South Platte Water Cooperative South Platte Basin Organizational Analysis	Sep-10	$60,977.00	$200,000.00	$260,977.00	Studies or analysis of structural, nonstructural, consumptive, nonconsumptive water needs, projects	Todd
South Platte		Ducks Unlimited, Inc.	Development of a Decision Support Model for Identifying and Ranking Waterfowl and Wildlife Related Recharge Projects along the South Platte River	Sep-10	$0	$99,821	$99,821	Structural project or activity	Todd
Southwest	**La Plata**	**Florida Mesa Canal Companies**	**Canal Seepage Reduction Program**	**Sep-10**	**$0**	**$775,000**	**$775,000**	Structural and nonstructural project or activity.	**Greg**
2010 July Board Approvals									
South Platte	Weld, Denver	NCWCD	Data Logger & Telemetry Install Project	Jul-10	$46,000.00	$0.00	$ 46,000.00	Structural project or activity	Todd
South Platte	Larmier, Weld, Logan, Sedgwick, Wash, Phillips, Yuma	Co Climate Center, CSU	Co Agricultural Meteorological Network (CoAgMet)	Jul-10	$20,000.00	$0.00	$ 20,000.00	Structural project or activity	Greg
2010 May Board Approvals									
Gunnison Basin	Gunnison	**New Fiscal Agent**	75 Ditch Diversion Improvements and Feature Enhancements	May-10	$46,100	$0	$46,100	Structural project or activity	Todd
Gunnison Basin	Gunnison	Lake San Cristobal Water Activity Enterprise (LSCWAE)	Lake San Cristobal Outlet Structure	May-10	$150,000	$0	$150,000	Structural project or activity	Todd
Rio Grande	Alamosa	The Colorado Rio Grande Restoration Foundation	2009 Rio Grande Riparian Stabilization Project - Phase 4	May-10	$50,000	$98,000	$148,000	Structural and nonstructural project or activity. (Note: Statewide request to be considered at September board meeting)	Greg
2010 January Board Approvals									

Yampa/White/ Green	**Rio Blanco/Garfield/Moffat**	**Co River District**	**Water Storage Feasibility**	**Jan-10**	**$220,800**	**$0**	**$220,800**	**Technical assistance regarding permitting, feasibility studies, and environmental compliance. Study of Structural Project**	**Jacob**
2009 September Board Approvals									
Metro		**South Metro Water Supply Authority**	**Aquifer Recharge Pilot Study**	**Sep-09**	**$0**	**$425,000**	**$425,000**	**Study or analysis of consumptive water project or activity**	**Jacob**
Rio Grande		Mineral County Fairgrounds Association	Lower Willow Creek Restoration Project	Sep-09	$50,000	$200,000	$250,000	Structural and/or nonstructural water project or activity	Greg
2009 July Board Approvals									
Southwest	San Miguel	Town of Sawpit	Domestic Water System Construction	Jul-09	$25,000	$0	$25,000	Structural water project or activity	Greg
2008 September Board Approvals									
Colorado	**Garfield**	**USFS**	**Battlement Reservoir #3 Dam reconstruction to enhance recreational & environmental opportunities**	**Sep-08**	**$80,000**	**$0**	**$80,000**	**Structural and/or non structural water project or activity**	**Jacob**
Metro/South Platte		**Water Environment Research Foundation**	**Demonstration of membrane zero liquid discharge process for drinking water systems ($50,000 Metro Basin Fund Contribution)**	**Sep-08**	**50k Metro, 25k Ark, 25k SP**	**700K/3**	**$800,000**	**Technical assistance regarding permitting feasibility studies and environmental compliance**	**Greg**

WSRA IN PROGRESS PROJECTS

UPDATED 01/03/11

Basin	County	Applicant	Name of Water Activity	CWCB Mtg Approved	Basin Account	Statewide Account	Total Request	Type of Water Activity	Number	Amount	Matching Funds Authorized	Matching Funds Paid	Project Expire Date	Final Date Closed	Complete/In Progress /Contracting Pending	Project Manager
Arkansas	Pueblo,Otero, Bent,Crowley, Powers,Fremont,Kiowa, Chaffee, El Paso	Southeastern Colorado Water Activity Enterprise	Arkansas Valley Conduit	Mar-07	0	$200,000	200,000	Study/analysis of structural activity	C150406	$200,000	$352,000		06/30/11		In Progress	Todd
Arkansas	No information on Summary for counties	Colorado State Univ.	Geospatial decision support system for integrated water mgmt	Sep-08	100,000	$500,000	600,000	Studies/analysis structural/nonstructural, consumptive/non water needs projects	C150441	$599,931	Unknown		06/30/12		In Progress	Andy
Arkansas	Chaffee, Fremont, Custer	Upper Arkansas WCD	Telemetry data collection platforms at six reservoirs plus flow control equipment & gauging at six reservoir outlet channels & nine streams w/in the upper Ark River basin	Sep-08	75,000	$210,332	285,332	Structural and/or nonstructural water project or activity	C150439	$285,332	$529,884		12/31/11		In Progress	Andy
Arkansas	Bent, Kiowa	Lower Arkansas Valley Water Conservancy District	John Martin Wetlands & Neenoshe Reservoir Nonconsumptive Needs Quantification	May-09	148,975	$0	148,975	Study/analysis of nonconsumptive water needs	C150457		$43,250		06/30/11		In Progress	Jacob
Arkansas	Chaffee,Lake, Saguache	Upper Arkansas Water Conservancy District	UAWCD Hydrologic Water Balance Study	Sep-09	$0	$180,000	180,000	Study or analysis of non structural, consumptive, or nonconsumptive water needs and projects	C150460	$180,000			06/30/13		In Progress	Todd
Arkansas	El Paso	El Paso County Water Authority/The Keystone Center	Flaming Gorge Project Task Force Assessment	May-10	$20,000	$0	$20,000	Studies or analysis of structural, nonstructural, consumptive, nonconsumptive water needs and project	11000000008	$ 20,000.00			06/30/11		In Progress	Jacob
Arkansas	Chaffee, Fremont, Pueblo	Southeastern CO WCD	Stakeholders Coop Mgmt Analysis for the UARB	Jul-10	$33,600.00	$0.00	$33,600.00	Studies or analysis of nonconsumptive water needs and project	11000000012	$33,600			06/30/11		In Progress	Jacob
Arkansas	Pueblo	City of Pueblo	Bedload/Sediment Collection and Removal Technology - Fountain Creek	Sep-09	$75,000	$150,000	$225,000	Study or analysis of structural, non structural, nonconsumptive water needs, projects	C150465	$ 225,000.00			6/30/2013		In Progress	Todd
Arkansas Basin Total Request					452,575	$1,240,332	1,692,907									
Number of Projects		8														
Colorado	No information on Summary for counties	City of Grand Junction	Energy Development Water Needs Assessment (300,000 Joint Application see Yampa)	Mar-07	0	$150,000	150,000	Study of consumptive water needs assoc. w/energy develop. in the CO, White& Yampa river basins	C150407	$150,000	$0		03/31/11		In Progress	Jacob
Colorado	Garfield, Eagle	Basalt Water Conservancy District	Missouri Heights	Sept-07	25,000	$0	25,000	Non-structural study--ground water monitoring, phase II	8000000049	$25,000	$25,000		01/31/13		In Progress	Jacob
Colorado	Grand, Pitkin, Eagle, Garfield, Summit,Mesa	Northwest Colorado Council of Governments	Colorado Basin Nonconsumptive Needs Quantification	Mar-09	315,171	$0	315,171	Nonstructural study of nonconsumptive needs	C150451	$315,171	$25,000		06/30/11		In Progress	Jacob
Colorado	Eagle/Pitkin/ Garfield	Ruedi Water and Power Authority	Roaring Fork Watershed Assessment - Phase 2	May-08	$40,000.00		$40,000.00	Study/Analysis Consumptive and Non-Consumptive Project	9000000049	$40,000.00					In Progress	Chris
Colorado	Grand County	Grand County	Fraser Sedimentation Basin	Mar-08	$60,000.00	$127,900.00	$187,900.00	Structural Water Project	C150449	$187,900			6/30/2012		In Progress	Greg
Colorado	Eagle/Garfield	Basalt Water Conservancy District	Missouri Heights	Sept-07	$25,000.00	$0.00	$25,000.00	Non-structural study--ground water monitoring, phase II	8000000049	$25,000			01/31/13		In Progress	Todd
Colorado	Grand, Summit, Eagle, Pitkin, Garfield, Mesa	Colorado Foundation for Water Education	Solicitation of stakeholder input and advice through a Colorado River Basin edition of Headwaters Magazine Colorado	Sep-10	$25,000.00		$25,000	Nonstructural water project or activity	11000000039	$25,000			06/30/11		In Progress	Jacob
Colorado Basin Total Request					490,171	$277,900	768,071									

Colorado	Grand, Summit, Eagle, Pitkin, Garfield, Mesa	Colorado Foundation for Water Education	Solicitation of stakeholder input and advice through a Colorado River Basin edition of Headwaters Magazine Colorado	Sep-10	$25,000.00		$25,000	Nonstructural water project or activity	11000000039	$25,000			06/30/11		In Progress	Jacob
Colorado Basin Total Request					490,171	$277,900	768,071									
Number of Projects		8														
Southwest		San Juan Water Conservancy District	Dry Gulch Reservoir/San Juan Reservoir Land Acquisition	Mar-07	0	$1,000,000	1,000,000	Structural Water Project – Land Acquisition for Reservoir Site	C150408	$1,000,000	$8,100,000		12/31/25		In Progress	Rick
Southwest		Town of Silverton	Molas Lake Ditch Rehabilitation and Diversion Structures	Jan-09	95,000	$0	95,000	Structural Project	9000000143		$1,100,000		06/30/10	06/30/11	In Progress	Greg
Southwest		Florida Mesa Canal Companies (Florida Canal, Florida Farmers Ditch, Florida Enlargement Ditch, and the Florida Co-operative Ditch Company)	Ditch Loss, Hydropower, and Monitoring Improvement Program	Mar-09	100,000	$0	100,000	Technical Assistance for Feasibility Studies; Study & Implementation of a Structural, Consumptive Water Project	9000000115		$300,000		06/30/11		In Progress	Greg
Southwest	Montezuma	Bauer Lake Water Company	Bauer Lakes Water Co. Dam Outlet Structure Upgrade	Mar-08	40,000		40,000	Structural Project	1000000084	$40,000	$70,000		12/31/11		In Progress	Greg
Southwest	La Plata, Archuleta	La Plata Archuleta Water District	La Plata Archuleta Water District	Sep-09	$0	$400,000	400,000	Technical assistance regarding permitting feasibility studies and environmental compliance	C150459	$400,000	$150,000		06/30/13		In Progress	Greg
Southwest	La Plata	Florida Mesa Canal Companies	Canal Seepage Reduction Program	Sep-09	$0	$225,000	225,000	Technical assistance regarding permitting feasibility studies and environmental compliance; and study or analysis of structural project or activity	C150463	$225,000			06/30/11		In Progress	Greg
Southwest	San Miguel	Town of Norwood	Raw Water System Update and Future Needs Study	Jan-10	$0	$58,458	58,458	Study/analysis of consumptive water project or activity	1000000085	$58,458			06/30/11		In Progress	Greg
Southwest	Montezuma	Goodman Point Water Association	Goodman Point Phase 2	Sept-07	$20,000.00	$240,000	260,000	Structural Project	C150462	$260,000			06/30/12		In Progress	Greg
Southwest	Montezuma	Mancos Conservation District	Mancos River Diversion Project, Phase I	Nov-09	$24,753	$0	24,753	Study/analysis of structural nonconsumptive water project or activity	10000000111	$24,753			12/30/10	06/30/11	In Progress	Greg
Southwest	La Plata	Red Mesa Reservoir and Ditch Company	Red Mesa Dam & Reservoir - Incremental Damage Analysis (IDA) & Emergency Action Plan (EAP)	May-09	$29,000	$0	$29,000	Study or analysis of structural/nonstructural water needs, projects	1000000061	$29,000			12/31/11		In Progress	Greg
Southwest	All Counties in SW Basin	Mancos Valley Resources Inc.	Protecting Irrigated Agricultural Lands and Water Rights for Agricultural Production	Nov-09	$31,500	$0	$31,500	Study/analysis of nonstructural consumptive water project or activity	10000000125	$ 31,500.00			6/30/2011		In Progress	Todd
Southwest	La Plata	San Juan Resource Conservation and Development - Animas Watershed Project	Animas River Needs Assessment	Sep-09	$57,000	$0	$57,000	Study or analysis of non structural, nonconsumptive water needs and projects	11000000028	$ 57,000.00			9/30/2012		In Progress	Greg
Southwest Basin Total Request					397,253	$1,923,458	2,320,711									
Number of Projects		13														
Gunnison	Delta	Leroux Creek Water Users Association (LCWUA)	Safety and Serviceability Needs Inventory for Reservoirs in the Leroux Creek Drainage Basin	May-07	60,000	$0	60,000	Study/Analysis	8000000008	$60,000	$10,000		06/30/08	06/30/11	In Progress	Todd
Gunnison	Gunnison	North Fork Water Conserv District (NFWCD) and Fire Mountain Canal& Reservoir Company (FMCC)	Sedimentation Management Study For Paonia Reservoir - North Fork of the Gunnison	Sept-07	79,000	$230,000	309,000	Study/Analysis	C150414	$309,000	$10,000		12/31/10		In Progress	Todd
Gunnison	Delta	Overland Ditch and Reservoir Company	Overland Reservoir Dam Expansion/Restoration	Sept-07	0	$68,000	68,000	Feasibility Study and Environmental Permitting Assistance	8000000038	$68,000	$0		08/31/08	06/30/11	In Progress	Todd
Gunnison	Hinsdale	Upper Gunnison WCD	Phase II Engineering for Lake San Cristobal Outlet Modification	July-08	75,265	$0	75,265	Study of structural project/activity	9000000041	$75,265	$0		01/31/09	06/30/11	In Progress	Todd
								Studies or analysis of								

Attachment 9

Gunnison	Delta	Company	Expansion/Restoration	Sept-07	0	$68,000	68,000	Assistance	8000000038	$68,000	$0		08/31/08 06/30/11	In Progress	Todd
Gunnison	Hinsdale	Upper Gunnison WCD	Phase II Engineering for Lake San Cristobal Outlet Modification	July-08	75,265	$0	75,265	Study of structural project/activity	9000000041	$75,265	$0		01/31/09 06/30/11	In Progress	Todd
Gunnison	Hinsdale	Upper Gunnison WCD	Lake San Cristobal Outlet Structure Modification--Phase III	Sep-08	0	$120,960	120,960	Studies or analysis of structural, nonstructural, consumptive, non consumptive water needs projects	C150444		$0		06/30/11	In Progress	Todd
Gunnison	Ouray	Town of Ridgway	Ridgway Ditch and Lake Otonawanda Improvement Project	Mar-09	109,500	$0	109,500	Technical Assistance Regarding Permitting, Feasibility Studies, and Environmental Compliance; and Study or Analysis of a Structural Project	C150455	$109,500	$27,380		06/30/11	In Progress	Greg
Gunnison	Ouray	City of Ouray	Development of Augmentation Supplies	May-09	50,000	$0	50,000	Structural and/or nonstructural water project or activity	10000000041	$50,000	$87,129		06/30/11	In Progress	Jacob
Gunnison	Delta	Leroux Creek Wtr Users Association	Hanson Reservoir Outlet Rehab	Jul-10	$50,000.00	$0.00	$50,000.00	Structural project or activity	11000000068	$50,000	$50,000		06/30/12	In Progress	Greg
Gunnison Basin Total Request					423,765	$418,960	842,725								
Number of Projects		8													
Metro	Arapahoe,Adams Weld	Lost Creek Groundwater Management District	Lost Creek Aquifer Recharge and Storage Study	Jan-09	80,000	$0	80,000	Studies or analysis of structural, consumptive water projects	C150447	$160,000	$13,000		06/30/11	In Progress	Greg
Metro	El Paso	El Paso County Water Authority/The Keystone Center	Flaming Gorge Project Task Force Assessment	May-10	$20,000	$0	$20,000	Studies or analysis of structural, nonstructural, consumptive, nonconsumptive water needs and project	OE11-08	$ 20,000.00			06/30/11	In Progress	Jacob
Metro		Douglas County Water Resource Authority	Feasibility Study for Bureau of Reclamation Funding from the National Rural Water Supply Act	Sep-09	$100,000	$500,000	$600,000	Technical assistance regarding permitting feasibility studies and environmental compliance; and study or analysis of structural project or activity	C150470	$600,000.00	$1,125,000.00		06/30/13	In Progress	Jacob
Metro	Douglas	Douglas County Water Resource Authority	Rotary Sprinkler Nozzle Retrofit	Sep-10	$0	$250,000	$250,000	Structural project or activity	C150471	$ 250,000.00	$ 87,500.00		6/30/2013	In Progress	Jacob
Metro	Douglas	Rural Water Authority of Douglas County	Rural Douglas County groundwater-level monitoring network	Sep-10	$28,263	$84,792	$113,055	Study or analysis of nonstructural project or activity	C150473	$ 113,055.00	$ 60,880.00		6/30/2013	In Progress	Jacob
Metro Basin Total Request					228,263	$834,792	1,063,055								
Number of Projects		6													
North Platte		Town of Walden	Town of Walden Water Supply Improvement Project	Jul-08	385,000	$0	385,000	Structural &/or Non-structural water project or activity	C150431	$385,000	$0		06/30/11	In Progress	Todd
North Platte		USFS	Effects of Mtn pine beetle & forest mgmt on water quantity, quality, & forest recovery N.P. and Upper CO River basins	Sep-08	212,306	$164,618	376,923	Studies or analysis of nonstructural project or activity	C150440	$376,923	In-Kind		06/30/13	In Progress	Greg
North Platte		Colorado Climate Center--CSU	Monitoring the effects of weather conditions on the evaportranspiration in N.P.Basin	Sep-08	50,409	$50,409	100,818	Studies or analysis of consumptive water needs project or activity	C150438	$100,818	Volunteer		06/30/14	In Progress	Greg
North Platte	Jackson	Ducks Unlimited, Inc.	North Park Irrigated Meadow Conservation Program – Phase I	May-10	$20,000	$0	$20,000	Environmental compliance and feasibility study. Technical assistance regarding permitting, feasibility studies, and environmental compliance.	10000000126	$20,000	$ 41,338		6/30/2014	In Progress	Greg
North Platte Basin Total Request					667,715	$215,027	882,741								
Number of Projects		4													

North Platte Basin Total Request					607,715	$215,027	822,741								
Number of Projects		4													
Rio Grande		Santa Maria Reservoir Company	Santa Maria and Continental Reservoirs: Rehabilitation and Multiple Use Studies	Sep-08	50,000	$141,700	191,700	Studies or analysis of nonstructural project or activity. Structural and/or nonstructural water project or activity	C-150443		$18,300		06/30/11	In Progress	Kirk
Rio Grande		Colorado Rio Grande Restoration Foundation	2008 Rio Grande Riparian Stabilization Project	Sep-08	35,000	$250,000	285,000	Structural and/or nonstructural water project or activity	C150452		$356,000		12/31/12	In Progress	Chris S.
Rio Grande		Conejos Water Conservancy District	Platoro Reservoir Restoration	Sep-08	50,000	$200,000	250,000	Structural and/or nonstructural water project or activity	C150448	$250,000	$250,000		06/30/11	In Progress	Kirk
Rio Grande		San Luis Valley Irrigation District	Rio Grande Reservoir Multi-Use Rehabilitation: Refinement and Enhancement of Reservoir Reoperation and Optimization Model	Nov-08	100,000	$0	100,000	Structural and/or nonstructural water project or activity	C150437	$100,000	$0		06/30/10	In Progress	Kirk
Rio Grande		Colorado Rio Grande Restoration Foundation	Rio Grande Conservation Reserve Enhancement Program (CREP) Phase II - Implementation	Sep-09	31,500	$0	31,500	Environmental compliance & feasibility study, technical assist regarding feasibility studies & environmental compliance, analysis of consumptive & nonconsumptive water projects	10000000056		$0		06/30/11	In Progress	Greg
Rio Grande		Trinchera Irrigation Company	Sangre de Cristo Trinchera Diversion Canal Restoration	Sep-09	$104,000	$150,000	254,000	Structural and/or nonstructural water project or activity	C150458	$254,000	$46,500		07/31/11	In Progress	Greg
Rio Grande	Costilla	San Luis Peoples Ditch Company	San Luis Peoples Ditch Upgrade and Rehabilitation Project - Phase I	May-10	$40,000	$0	$40,000	Structural project or activity	11000000053	$40,000	$102,000		06/30/11	In Progress	Greg
Rio Grande	Saguache, Rio Grande, Conejos, Archuleta, Alamosa, Hinsdale, Costilla	Rio Grande Watershed Conservation and Education Initiative	Educating Today to Balance Tomorrow's Water Supplies & Needs	May-10	$25,000	$0	$25,000	Nonstructural project or activity	11000000059	$25,000	$163,900		06/30/12	In Progress	Jacob
Rio Grande Basin Total Requests					435,500	$741,700	1,177,200								
Number of Projects		8													
South Platte		District 64 Reservoir Company	Ovid Reservoir Comprehensive Feasibility Study	Sept-07	176,000	$0	176,000	Study/Analysis of Structural Water Project	C150417	$176,000	$1,000,000		06/30/11 Extended	In Progress	Todd/Kirk
South Platte		Northern Colorado Water Conservancy District	Stage Discharge Data Loggers and Telemetry	Jan-08	48,800	$0	48,800	Structural Activity	8000000120	$48,800			10/30/08 06/30/11	In Progress	Todd
South Platte		Ducks Unlimited, Inc.	Weld County School Dist RE1 Wetland Partnership	Jul-08	42,110	$0	42,110	Structural water project or activity	9000000063	$42,110	$160,000		07/31/11	In Progress	Todd
South Platte		Ducks Unlimited	S.P. Water protection and restoration	Sep-08	0	$825,552	825,552	Structural and/or nonstructural water project or activity	C150432	$825,552	$2,000,000		12/31/10	In Progress	Todd
South Platte		The Nature Conservancy of Colorado	Arickaree River Well retirement program, Republican River basin, CO.	Sep-08	19,984	$79,936	99,920	Studies or analysis of nonstructural project or activity. Structural and/or nonstructural water project or activity	09000000084	$99,920	$471,920		12/31/09 06/30/11	In Progress	Todd
South Platte		Lost Creek Groundwater Management District	Lost Creek Aquifer Recharge and Storage Study	Jan-09	80,000	$0	80,000	Studies or analysis of structural, consumptive water projects	C150447		See Metro		06/30/11	In Progress	Greg
South Platte		Ducks Unlimited, Inc.	Central South Platte Wetland Partnership	Mar-09	150,000	$0	150,000	Environmental Compliance and Feasibility Study and Structural Water Project	C150454		$565,000		06/30/11	In Progress	Greg
South Platte		Fort Morgan Reservoir and Irrigation Company (FMRICo)	FMRICo Recharge & Wetlands Project	Sep-09	$250,000	$420,000	$670,000	Structural and/or nonstructural water project or activity	C150464	$670,000			06/30/12	In Progress	Todd
South Platte Basin Total Request					766,894	$1,325,488	2,092,382								
Number of Projects		9													
								Study of consumptive water							

South Platte Basin Total Request					766,894	$1,325,488	2,092,382									
Number of Projects		9														
Y/W/G		City of Grand Junction	Energy Development Water Needs Assessment (300,000 Joint Application see Colorado)	Mar-07	0	$150,000	150,000	Study of consumptive water needs associated with energy development in the Colorado, White and Yampa river basins	C150407	$300,000	$0		03/31/11		In Progress	Jacob
YWG		Moffat County	Agricultural Water Needs Assessment	Jan-08	201,410	$0	201,410	Study or analysis of structural/nonstructural and consumptive/ nonconsumptive needs	C150418	$201,410	$0		12/31/10		In Progress	Eric
Y/W/G		Town of Yampa	Town of Yampa Water Facilities Plan and storage tank upgrades	Sep-08	61,062	$0	61,062	Studies or analysis of structural and consumptive water needs projects or activity. Structural and/or nonstructural water project or activity	9000000090		$15,626		06/30/10	06/30/11	In Progress	Todd
Y/W/G		Moffat County	Sandwash basin coalbed methane production depletive effects on water resources	Sep-08	20,000	$98,835	118,835	Studies or analysis of consumptive water needs project or activity	C150435		$2,000		06/30/11		In Progress	Jacob
Y/W/G	Rio Blanco/Garfield/Moffat	The Nature Conservancy	Yampa White Basin Non consumptive Needs Assessment Watershed Flow Evaluation Tool	Jan-10	$169,002.35	$0.00	$169,002	Study/analysis of nonconsumptive water project or activity	C150466				06/30/12		In Progress	Jacob
Y/W/G	Garfield,Routt	Bear River Reservoir Company	Stillwater Reservoir Seepage Project	Sep-09	$189,000	$0	$189,000	Structural and/or nonstructural water project or activity	C150469				06/30/12		In Progress	Jacob
Y/W/G	Routt	Colorado Climate Center, Colorado Division of Water Resources	Improvement of lysimeter operations and consumptive use quantification in high-altitude, irrigated meadows in the Yampa /White Basin	Sep-10	$10,000	$10,978	$20,978	Studies or analysis of structural, nonstructural, consumptive, nonconsumptive water needs, projects	11000000058		$20,978		06/30/15		In Progress	Greg
Y/W/G Basin Total Request					650,474	$259,813	910,287									
Number of Projects		9														

WSRA COMPLETED PROJECTS

Updated 01/03/2011

Basin	County	Applicant	Name of Water Activity	CWCB Mtg Approved	Basin Account	Statewide Account	Total Request	Type of Water Activity	Number	Amount	Matching Funds Authorized	Matching Funds Paid	Project Expire Date	Final Date Closed	PM	
Arkansas	Pueblo,Otero/ Crowley, Bent, Powers, Fremont, Chaffee, ElPaso, Kiowa	Southeastern Colorado Water Conservancy District	Tamarisk	Mar-07	$0	$50,000	$50,000	Study/analysis of nonstructural water activity	8000000005	$50,000				06/30/09	Todd/ Steve M	Completed
Arkansas	El Paso	El Paso County Water Authority	Upper Black Squirrel Creek Aquifer Recharge Investigation	Mar-07	$45,200	$0	$45,200	Study or Analysis of Structural Project	8000000011						Andy	Completed
Arkansas	El Paso	El Paso County Water Authority	Ground Water Conference	Mar-07	$24,721	$0	$24,721	Study/analysis of nonstructural activity	8000000010				10/10/07	06/30/09	Andy	Completed
Arkansas	Pueblo, ElPaso, Teller	Pueblo and El Paso Counties	Fountain Creek Vision Task Force	May-07	$75,000	$0	$75,000	Facilitation and Analysis	8000000084	$75,000			06/30/09	06/30/09	Eric	Completed
Arkansas	Custer	Round Mountain Water and Sanitation District	Round Mountain Water & Sanitation District Water System Improvements Project	May-07	$120,000	$0	$120,000	Structural Water Project	C150403	$120,000			09/02/09	09/17/09	Todd	Completed
Arkansas	El Paso, Elbert, Lincoln	Upper Big Sandy Ground Water Management District	Upper Big Sandy Water Balance	Jan-08	$45,000		$45,000	Study/analysis of nonstructural activity	8000000100	$45,000					Eric	Completed
Arkansas	Pueblo,Otero/ Crowley, Bent, Powers, Fremont, Chaffee, ElPaso, Kiowa	Southeastern Colorado Water Conservancy District	Model Transfers- Agriculture to Urban, Arkansas Basin	Jan-08	$23,860		$23,860	Study/analysis of structural/nonstructural project	8000000135	$23,860					Eric	Completed
Arkansas	Lake, Chaffee, Fremont	Greater Arkansas River Nature Association	Arkansas Headwaters Diversion Structure Improvement Project Arkansas River Basin	Mar-08		$57,955	$57,955	Study/Analysis Consumptive and Non-Consumptive Project	9000000025	$57,955				Closed 8/31/09	Ted	Completed
Arkansas	Bent	City of Las Animas	City of Las Animas Water System Improvements	Mar-08	$100,000	$200,000	$300,000	Structural/Non-Structural Water Activity	C150424	$300,000	$2,022,000		12/31/09	09/23/09	Todd (Kirk?)	Completed
Arkansas	Pueblo, Otero, Crowley,Bent, Powers	Lower Arkansas Water Conservancy District	Rotational Land Fallowing-Water Leasing Program - Lower Arkansas Super Ditch Company	Jan-08	150,000		150,000	Study/analysis of nonstructural activity	C150425	$150,000	$68,735		06/30/10	05/15/10	Todd	Completed
Arkansas	Pueblo	Colorado State Parks	Colorado State Parks Zebra Mussel Response	Mar-08	0	$1,000,000	1,000,000	Structural and Non-Structural water project	C150416	$1,000,000	$3,000,000		06/30/09	06/30/10	Todd	Completed
Arkansas Basin Total Request					$583,781	$1,307,955	$1,891,736									
Number of Projects		11														
Colorado	Mesa	Bull Creek Reservoir Canal and Power Co.	Bull Creek Reservoir No. 5 Spillway Adequacy Analysis	Sept-07	50,000	$0	50,000	Structural water activity--Spillway adequacy study/environmental permitting	8000000039	$50,000	$0		06/30/10	02/25/09	Eric	Completed
Colorado	Eagle	Eagle Park Reservoir Company	Enlargement of Eagle Park Reservoir	Mar-07	$0	$250,000	$250,000	Structural Project and Study-Technical Assistance	C150401	$180,580	$118,707		12/31/09	12/17/09	Eric	Completed
Colorado	Garfield, Pitkin, Gunnison, Eagle	Ruedi Water and Power Authority	Roaring Fork Watershed Assessment	Mar-07	$40,000	$0	$40,000	Study or Analysis of Non-Consumptive Needs	8000000012	$40,000					Chris	Completed
Colorado		Colorado River Water Conservation District	Upper Colorado Endangered Fish Recovery Alternatives Analysis (10,825)	Mar-07	$0	$200,000	$200,000	Study or analysis of non-consumptive water activity	C150404	$200,000			06/30/08	Closed	Todd	Completed
Colorado	Grand County	Grand County	Vail Ditch Project	Mar-07	$0	$1,500,000	$1,500,000	Structural and Nonstructural water activity	C150409	$1,500,000			06/30/08	Closed	Closed?	Completed
Colorado	Garfield, Pitkin	West Divide WCD	Feasibility and design assessment of off-channel reservoir sites in the Crystal River water shed	Sep-08	$40,000	$0	$40,000	Structural and/or non structural water project or activity	9000000052	$40,000			08/31/09	09/02/09	Mike	Completed
Colorado	Summit	Summit County	Old Dillon Reservoir	Mar-08	$100,000	$0	100,000	Study/Analysis of consumptive project	9000000026	$100,000	$49,360		06/30/09	03/02/10	Kirk	Completed
Colorado		Grand County	Grand County Stream flow Management Plan	May-08	$100,000	$0.00	100,000	Study/Analysis of Non-consumptive needs/project	C150461	$100,000			06/30/11	12/16/10	Todd	Completed
Colorado																

Colorado	Summit	Summit County	Old Dillon Reservoir	Mar-08	$100,000	$0	100,000	Study/Analysis of consumptive project	9000000026	$100,000	$49,360		06/30/09	03/02/10	Kirk	Completed
Colorado		Grand County	Grand County Stream flow Management Plan	May-08	$100,000	$0.00	100,000	Study/Analysis of Non-consumptive needs/project	C150461	$100,000			06/30/11	12/16/10	Todd	Completed
Colorado Basin Total Request					$330,000	$1,950,000	$2,280,000									
Number of Projects		8														
Southwest		Goodman Point Water Association	Goodman Point Water Association Pipeline Environmental Assessment	Mar-07	$7,700	$0	$7,700	Study of structural water project	8000000075	$7,700				07/31/09	Eric	Completed
Southwest		Mancos Water Conservancy District	Jackson Gulch Reservoir Expansion Project	July-07	$61,735	$0	$61,735	Feasibility Study	8000000076	$80,000			06/30/09	06/30/09	Todd	Completed
Southwest		La Plata West Water Authority	La Plata West Rural Water Supply System	Mar-08	$100,000	$1,000,000	$1,100,000	All purposes	C150422				06/30/09		Todd (Kirk?)	Completed
Southwest	La Plata/Archuleta	La Plata Archuleta Water District	Water System Master Planning	Nov-08	$100,000	$0	$100,000	Environmental/Technical feasibility studies and studies or analysis of structural and/or non structural water project or activity	9000000112	$100,000	None		12/31/09	12/22/09	Eric	Completed
Southwest	Archuleta	Park Ditch Company	Park Ditch Improvements	Jul-09	$85,000	$0	$85,000	Structural water project or activity	10000000011	$85,000	$132,375		06/30/11	12/09/09	Greg	Completed
Southwest	La Plata	Happy Scenes	Water System Well, Treatment System and Distribution Upgrades	16-Sep-08	$39,760	$50,000	$0	Structural Project	9000000127	$50,000	$87,100		06/30/10	11/17/09	Greg	Completed
Southwest		Town of Sawpit	Town of Sawpit – Engineering/Planning for Domestic Water System; Southwest Basin	Mar-08	25,000	$0	25,000	Study Structural Project	9000000006	$25,000	$6,700		06/30/09	06/07/10	Anna	Completed
Southwest		Lower Blanco Property Owners Association	Lower Blanco River Restoration Project	Mar-09	100,000	$0	100,000	Analysis and Construction of Structural Nonconsumptive Water Project	C150450		$284,000		06/30/10	06/30/10	Greg	Completed
Southwest		Summit Reservoir and Irrigation Company	MVIC Summit Irrigation Company feasibility study	Sep-08	39,300	$0	39,300	Environmental/Technical feas. studies & studies/analysis of structural &/or non structural wtr project or activity	9000000085	$39,300	$0		08/31/10	08/31/10	Kirk	Completed
Southwest		Lower Blanco River Restoration	Lower Blanco River Restoration Project	Sep-09	0	$150,000	150,000	Structural and/or nonstructural water project or activity	C150468		$0		06/30/12	12/17/10	Greg	Completed
Southwest Basin Total Request					$558,495	$1,200,000	$1,758,495									
Number of Projects		11														
Gunnison	Hinsdale	Upper Gunnison Water Conservancy District and Hinsdale County	Lake San Cristobal Controlled Outlet Structure	May-07	$35,000	$0	$35,000	Technical assistance regarding permitting, feasibility studies, and environmental compliance	8000000021	$35,000				Closed	Todd	Completed
Gunnison	Delta	Town of Orchard City	Orchard City Water Reservoir Project (Task 1-3)	May-07	$60,000	$0	$60,000	Study/Analysis	8000000007	$60,000					Todd	Completed
Gunnison	Delta	Town of Orchard City	Orchard City Water Reservoir Project (Remaining Tasks)	Sept-07	$0	$380,000	$380,000	Study/Analysis	C150410	$480,000			12/31/08	Closed	Todd	Completed
Gunnison	Delta, Montrose, Ouray	Project 7 Water Authority and Uncompahgre Valley Water Users Association	Off-System Raw Water Storage Project 7 Water Authority/Uncompahgre Valley Water Users Association	Sept-07	$56,700	$0	$56,700	Environmental Compliance and Feasibility Study	80000000059	$56,700				Closed	Todd	Completed
Gunnison	Gunnison	North Fork River Improvement Association	Paonia-Feldman Diversion Reconstruction; North Fork of the Gunnison River (Part 1 and 2)	Sept-07	$48,000	$62,700	$110,700	Structural--development of construction plans and specifications for project	C150411	$110,700			12/31/08	Closed	Todd	Completed
Gunnison	Mesa	City of Grand Junction Water Enterprise Fund	Juniata Reservoir Spillway Modification	Mar-09	$97,000	$0	$97,000	Structural Water Project	9000000088	$97,000	$97,586	$66,914	06/30/10	12/15/09	Jacob	Completed
Gunnison	Delta	Painted Sky Resource Conservation and Development Council, Inc.	Hartland Diversion Dam Fish Passage Feasibility Study	May-09	22,100	$0	22,100	Study or analysis of a structural water project or activity	9000000144	$22,100	$1,000		06/30/10	01/25/10	Greg	Completed
Gunnison Basin Total Request					$318,800	$442,700	$761,500									

Gunnison	Delta	Conservation and Development Council, Inc.	Hartland Diversion Dam Fish Passage Feasibility Study	May-09	22,100	$0	22,100	structural water project or activity	9000000144	$22,100	$1,000		06/30/10	01/25/10	Greg	Completed
Gunnison Basin Total Request					$318,800	$442,700	$761,500									
Number of Projects		7														
Metro	Denver, Multiple	The Greenway Foundation	Chatfield Reallocation EIS/FR (South Platte BRT contributing $27,000)	Mar-07	$103,000	$0	$103,000	Study/Analysis of Structural Water Project							Chris	Completed
Metro	Douglas	East Cherry Creek Valley Water and Sanitation District	Zero Liquid Discharge Pilot Study	Sept-07	$200,000	$200,000	$400,000	Study/Analysis	C150412	$400,000				01/08/09	Eric	Completed
Metro	Logan	Parker Water and Sanitation District	Parker Water and San. And Colo. State University Joint Project on the Rural/Urban Farm Model	Sept-07	$150,000	$0	$150,000	Study/Analysis	C150413	$150,000			12/31/09	10/02/09	Todd	Completed
Metro	Multiple	CFWE	Solicitation of Stakeholder Input through a South Platte Edition of Headwaters	Jul-08	$16,019	$0	$16,019	Non-structural water project or activity	9000000019	$16,019					Todd	Completed
Metro	Douglas, Arapahoe	South Metro Water Supply Authority	South Metro Water Supply Authority - Regional Aquifer Supply Assessment	Jul-08	100,540	$0	100,540	Study/analysis of structural project & consumptive project/activity	C150430	$100,540	In-kind		12/31/09	12/31/10	Andy	Completed
Metro	Denver	Greenway Foundation	South Platte River Recreation and Habitat Feasibility Study	Sep-08	150,000	$0	150,000	Study/analysis of structural, non structural, nonconsumptive water needs, projects	C150442	$150,000	$0			06/30/10	Chris	Completed
Metro	Park, Jeffco,CC, Gilpin	Clear Creek County on behalf of Upper Mountain Counties Water Needs Consortium	Upper Mountain Counties Water Needs Assessment	May 2008	43,587	$0	43,587	Study/Analysis	C150429		$8,070		06/30/11	12/31/10	Eric	Completed
Metro Basin Total Request					$763,146	$200,000	$963,146									
Number of Projects		8														
North Platte		Silver Spur Operating CO.	New Pioneer Ditch Diversion Reconstruction Project	Mar-08	$116,000		$116,000	Structural/Non-Structural Water Activity	C150421	$116,000			12/31/09		Chris	Completed
North Platte		CSU	Identification and assessment of important wetlands in N.P. River watershed	Sep-08	86,000	$96,000	182,000	Studies or analysis of nonconsumptive water needs project or activity	C150433	$182,000	$10,000		06/30/10	06/30/10	Todd	Completed
N Platte Basin Total Request					$202,000	$96,000	$298,000									
Number of Projects		2														
Rio Grande		Alamosa Riverkeepers	Alamosa River In-stream Flow Project	Mar-07	$64,500	$0	$64,500	Study/Design for Structural Water Project	7000000076						Chris	Completed
Rio Grande		Colorado Rio Grande Restoration Foundation	Rio Grande Basin Conservation Reserve Enhancement Program	May-07	$36,750	$0	$36,750	Non-structural water activity	8000000006	$36,750				Closed	Todd	Completed
Rio Grande		San Luis Valley Resource Conservation and Development Council	Alamosa River Watershed Restoration Project	Sept-07	$0	$104,000	$104,000	Non-structural water activity	C150419	$104,000				Closed	Chris	Completed
Rio Grande		Romero Irrigation Company	Romero-Guadalupe Channel Rectification Project	Sept-07	$83,700	$0	$83,700	Structural Water Project	8000000060	$83,700				Closed	Eric	Completed
Rio Grande		Rio Grande Headwaters Land Trust	Rio Grande Initiative	Mar-08	$200,000	$1,300,000	$1,500,000	Structural/Non-Structural Water Activity	C150420	$1,500,000				Closed	Todd	Completed
Rio Grande	Conejos	El Codo Ditch Company	San Antonio River - El Codo Ditch Diversion and Rehabilitation	May-09	$65,000	$0	$65,000	Structural and/or nonstructural water project or activity	1000000001	$64,820	$23,445		12/31/09	12/08/09	Greg	Completed
Rio Grande		Manassa Land and Irrigation Company	Conejos River and North Branch Diversion and Stabilization	Sep-08	50,000	$333,700	383,700	Structural and/or nonstructural water project or activity	C150446	$383,700	$98,000			06/30/10	Chris S	Completed
Rio Grande		San Luis Valley Irrigation District	Preliminary Design Multi-use Rio Grande Reservoir Rehabilitation and Enlargement	Mar-07	0	$288,000	288,000	Study/Design for Structural Water Project	C150402	$288,000	$0		06/30/10	06/30/10	Kirk	Completed
RGrande Basin Total Request					$499,950	$2,025,700	$2,525,650									
Number of Projects		8														
			Chatfield Reallocation EIS/FR													

Basin Total Request					$499,950	$2,025,700	$2,525,650									
Number of Projects		8														
South Platte		The Greenway Foundation	Chatfield Reallocation EIS/FR (Metro BRT contributing $103,000)	Mar-07	$27,000	$0	$27,000	Study/Analysis of Structural Water Project		$27,000					Todd /Tom	**Completed**
South Platte		Clear Creek County	Clear Creek Water Banking/High Altitude Storage	May-07	$52,000	$0	$52,000	Environmental Compliance/Feasibility Study	8000000037	$52,000				**Closed**	Eric	**Completed**
South Platte		Colorado Foundation for Water Education	Solicitation of Stakeholder Input through a South Platte Edition of Headwaters	Jul-08	$16,019	$0	$16,019	Non-structural water project or activity	9000000019	$32,038					Todd	**Completed**
South Platte		Ducks Unlimited, Inc.	Lower South Platte Wetland Initiative Phase I South Platte River, CO	Sept-07	0	$278,476	278,476	Specifies all eligible activities	C150415	$278,476	$500,255				Todd	**Completed**
South Platte		Clear Creek County on behalf of Upper Mountain Counties Water Needs Consortium	Upper Mountain Counties Water Needs Assessment	May 2008	130,763	$0	130,763	Study/Analysis	C150429		See Metro		**06/30/10**	**12/31/10**	**Eric**	**Completed**
South Platte		City of Greeley	Halligan Seaman Water Mgmt project share vision planning model	Sep-08	25,435	$76,305	101,740	Environmental compliance/Technical Assistance/Studies or analysis of structural, nonstructural, consumptive, nonconsumptive water needs projects	C150436	$101,740	$271,109		**06/30/10**	**06/30/10**	Eric	**Completed**
South Platte Basin Total Request					$251,217	$354,781	$605,998									
Number of Projects		6														
Y/W/G		Upper Yampa Water Conservancy District	Morrison Creek Reservoir Feasibility Study	July-07	49,500	$0	49,500	Feasibility Study	8000000058	$49,500	$0		**03/31/08**	**02/25/10**	Todd	**Completed**
Y/W/G		Vermillion Ranch	Sparks Reservoir	Jul-08	16,000	$0	16,000	Study/Analysis of Consumptive Activity/Project	9000000039	$16,000	$3,000		**12/31/08**	**02/25/10**	Todd	**Completed**
Y/W/G		Colorado Foundation for Water Education	Headwaters Magazine - January 2010	Sep-09	20,000	$0	20,000	Study or analysis of structural, non structural, consumptive, and nonconsumptive water needs and projects	10000000050		$22,938		**06/30/10**	**05/17/10**	Jacob	**Completed**
Y/W/G		Community Agriculture Alliance, Inc.	Development and Implementation of Water Forums, Workshop, and/or Tours	Sep-09	10,000	$0	10,000	Study or analysis of structural, non structural, consumptive, water needs and projects	10000000046		$2,675		**06/30/11**	**12/31/10**	Jacob	**Completed**
YWG		City of Steamboat Springs and Routt County	Common Data Repository	Jan-08	106,600	$0	106,600	Study or analysis of consumptive/ nonconsumptive needs	C150423	$106,600	$50,000		**6/31/10**	**12/31/10**	**Todd**	Completed
Y/W/G Basin Total Request		5			202,100	$0	$202,100									

COLORADO WATER CONSERVATION BOARD
Water Supply Reserve Account - Balance Summary
December 2010

Fund Appropriation and Receipts

Fiscal Year	Legislative Appropriation	Funds Received	Statewide Account	Basin Account
2006/2007	$10,000,000	$10,000,000	$5,500,000	$4,500,000
2007/2008	$6,000,000	$6,000,000	$4,200,000	$1,800,000
2008/2009	$10,000,000	$7,000,000	$4,300,000	$2,700,000
2009/2010	$5,775,000	$5,775,000	$4,215,750	$1,559,250
2010/2011	$6,000,000	$2,400,000	$1,752,000	$648,000
TOTAL	$37,775,000	$31,175,000	$19,967,750	$11,207,250

Note: The WSRA is a Severance Tax "Tier II" program with 40% of funds distributed on July 1, 30% on January 1, and the final 30% on April 1.
In FY 2008/2009 the final 30% installment of $3,000,000 was not received due to the State's budgetary shortfall.
For FY 2010/2011 the first intallment of 40% was received on July 1, resulting in $1,752,000 for the Statewide Account and $72,000 for each Basin Account

Fund Distribution

Basin	Approved Basin Grants	Total Basin Funds	Basin Account Balance	Approved State Grants	Statewide Account Balance
Arkansas	$1,076,756	$1,245,250	$168,494	$2,809,620	
Colorado	$950,171	$1,245,250	$295,079	$2,402,900	
Southwest	$1,183,946	$1,245,250	$61,304	$3,790,000	
Gunnison	$938,665	$1,245,250	$306,585	$861,660	
Metro	$1,041,409	$1,245,250	$203,841	$1,818,125	
North Platte	$869,715	$1,245,250	$375,535	$311,027	
Rio Grande	$1,035,450	$1,245,250	$209,800	$2,961,400	
South Platte	$1,113,857	$1,245,250	$131,393	$2,213,423	
Yampa/White	$1,073,374	$1,245,250	$171,876	$259,813	
TOTAL	$9,283,343	$11,207,250	$1,923,907	$17,427,968	$2,539,782

TOTAL APPROVED GRANTS	$26,711,311

Note: Only includes grants approved by CWCB

STATE OF COLORADO

Colorado Water Conservation Board
Department of Natural Resources
1313 Sherman Street, Room 721
Denver, Colorado 80203
Phone: (303) 866-3441
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TO: Colorado Water Conservation Board Members

FROM: Kirk Russell, P.E.
Finance Section

DATE: January 7, 2011

SUBJECT: **Directors Report Attachment**
January 25/26 2011 Board Meeting
Finance Section – Change to Existing Loan
Design & Construction Status Report

The CWCB Finance Section has Substantially Completed three projects in FY 10/11. Currently we have 49 projects in design and/or construction, involving over $223,000,000 in loan funds

The attached spreadsheet summarizes project status, including budget, construction schedule, and progress to-date.

The attached progress report briefly outlines all active project design and construction information and progress to-date.

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

January 7, 2011

	Applicant/Borrower	Project	County	Loan Amount	Size	Annual Yield (AF)	Created (AF)	Design Status	Construction Start	Construction End	Construction Status
Projects Substantially Completed in FY 2010-2011											
1	Trinchera Reservoir Company	Smjth Reservoir Rehabilitation Project	Costilla	$ 606,000	5.000 AF	26,700	1,100	100%	Nov-09	Sep-10	100%
2	Parker Water & Sanitation District	Rueter Huess Reservoir Construction	Douglas	$ 15,000,000	16,200 AF	16,200	16,200	100%	Jan-03	Nov-10	100%
3	Swans Nest	Water Acquisition Project	Summit	$ 151,500	10 AF	10		N/A	Sep-11	Dec-11	100%
			Total =	$ 606,000	Total =	26,700	1,100				
Projects in Design or under Construction											
1	Grand Mesa Reservoir Company	Grand Mesa Reservoir No. 1 & 9 Rehabilitation	Mesa	$ 200,000	1,000 AF	1,000	200		Funds Reversed Back 11/2010		
2	New Cache La Poudre Irrigation Company	Construct 2 New Reservoirs and Pipeline	Weld	$ 7,200,000	4,500 AF	4,500	4,500	100%	Jun-05	Jan-14	99%
3	Orphan Wells of Wiggin, LLC	Well Augmentation Project	Morgan	$ 1,037,700	6,000 AF	6,000		100%	Nov-03	On-hold	99%
4	Mancos Water Conservancy District	Inlet and Outlet Canal Rehabilitation	Montezuma	$ 5,486,531	15,840 LF	9,000		75%	Jan-04	Jan-14	70%
5	Upper Arkansas Water Conservancy District	Reservoir Rehabilitation	Chaffe/Custer	$ 3,520,000	500 AF	500	200	100%	Jun-05	Jan-13	90%
6	Union Ditch Company	Well Augmentation Project	Weld	$ 312,595	206 AF	206		75%	Sep-06	Jan-13	80%
7	Bijou Irrigation District	Empire Reservoir Rehabilitation - Dam Rehab.	Morgan/Weld	$ 2,408,850	19,900 AF	19,900	2,682	100%	Nov-07	Feb-11	95%
8	Lower Poudre Augmentation Company	Reservoir and Water Rights Purchase	Larimer/Weld	$ 3,104,053	657 AF	657		100%	Oct-07	Jan-13	99%
9	Bull Creek Reservoir Company	Reservoir Rehabilitation Project	Mesa	$ 1,212,000	900AF	900	900	100%	Jul-08	Jan-12	99%
10	Overland Ditch and Reservoir Company	Overland Reservoir Rehabilitation	Delta	$ 1,130,000	6,200 AF	17,000	971	95%	May-08	On-Hold	0%
11	Montezuma Valley Irrigation Company	May Lateral Pipeline	Montezuma	$ 5,292,400	5 Miles	128,000		100%	Nov-07	Jan-12	99%
12	Platte Valley Irrigation Company	Equalizer Reservoir Project	Weld	$ 2,388,650	431 AF	52,401	431	100%	Nov-10	May-11	5%
13	Greeley Irrigation Company	Greeley Canal No. 3 Rehabilitation	Wled	$ 2,233,867	18,000 AF	18,000		90%	Feb-08	Jan-12	90%
14	Henrylyn Irrigation District	Horse Creek & Prospect Reservoir Rehabilitation	Weld	$ 2,184,327	13,850 AF	13,850	3,000	95%	Nov-08	Jan-12	85%
15	New Salida Ditch Company	Dtich Rehabilitation	Chaffee	$ 365,620	300 L.F.	7,000		100%	Oct-09	Jan-12	95%
16	Farmers Pawnee Canal Company	Ditch Flow Control Structures	Logan	$ 227,250	27,260	27,260		100%	Oct-08	Jan-12	95%
17	North Sterling Irrigation District	North Sterling Reservoir Rehabilitation	Logan	$ 1,094,840	74,590 AF	82,207		100%	Sep-09	Jul-11	99%
18	Republican River Water Conservation District	Compact Compliance Pipeline	NE. Colo	$ 60,600,000	15,000 AF	15,000		100%	Nov-08	Jan-14	80%
19	Ogilvy Augmentation Company	Well Augmentation	Weld	$ 1,010,808	60 AF	60		100%	Dec-08	Jan-12	95%
20	Boulder White Rock Ditch and Reservoir Company	Panama Reservoir Outlet Rehabilitation	Boulder/Weld	$ 2,864,164	300 L.F.	12,000	2,600	100%	Oct-09	Jan-12	95%
21	Snowmass Water and Sanitation District	Zeigler Reservoir Water Management System	Pitkin	$ 1,952,805	1,800 AF	1,800			Deauthorized on 1/11		
22	Farmers Reservoir and Irrigation Company	Milton Reservoir and Barr Lake Improvement Proj.	Adams/Weld	$ 3,535,000	64,900 AF	125,000		100%	Oct-09	Jan-12	70%
23	Raymond Dairy, Incorporated	Robert Raymond Concrete Ditch Rerconstruction	Mesa	$ 63,950	2,500 L.F.	386		100%	Nov-09	Feb-11	99%
24	Lower Latham Reservoir Company	Well Augmentation Project	Weld	$ 3,811,573	5,705 AF	5,705		100%	Nov-09	Jan-13	65%
25	WRCC, Inc.	Cobb Lake Inlet Structure Rehabilitation	Larimer	$ 1,301,890	35,000 AF	35,000		100%	Sep-10	Jan-12	99%
26	Town of Gypsum	LEDE Ditch and Reservoir Rrehabilitation	Eagle	$ 2,689,731	685 AF	1,200	254	60%	Jun-10	Jan-14	15%
27	Town o f Dillon	Old Dillon Reservoir Enlargement	Summit	$ 1,515,000	286 AF	321	140	100%	Sep-10	Jan-14	2%
28	Lake Canal Reservoir Company	South Gray Reservoir Rehabilitation/Gray No. 3	Larimer	$ 393,900	1,120 AF	1,120	165	100%	Sep-10	Jan-12	30%
29	City of Monte Vista	Augmentation Water Rights Acquisition	Rio Grande	$ 1,693,770	321 AF	1,212		90%	Oct-10	Jan-12	50%
30	Fort Morgan Reservoir and Irrigation Company	Pipeline Project - Augmentation Retiminig	Morgan	$ 1,494,800	15,840 L.F.	37,058		100%	Sep-10	May-11	95%
31	Joseph W. Bowles Reservoir Company	Bowls No. 1 Dam Rehabilitation	Jefferson	$ 1,703,870	2,062 AF	900		100%	Aug-10	Jul-11	95%
32	Stagestop Owners Association	Water Augmentation Reservoirs Project	Park	$ 192,708	20	20	20	100%	Sep-10	Jul-11	99%
33	Grand River Ditch Company	Grand River Ditch Pipeline	Garfield	$ 543,380	14,500	14,500		100%	Sep-10	Jul-11	99%
34	Louden Irrigating Canal and Reservoir Company	Rist Benson Reservoir Rehabilitation	Larimer	$ 663,610	150AF	150	150	100%	Feb-10	Jan-12	0%
35	Pagosa Area Water and Sanitation District	Dry Gulch Reservoir Land Acquisition	Archuleta	$ 11,217,060	35,000 AF	35,000	35,000	n/a	Nov-08	Mar-20	n/a
36	Supply Irrigating Ditch Company	Knoth Reservoir Dam Rehabilitation	Boulder	$ 1,515,000	4,800 AF	4,800	400	95%	Jan-10	On-Hold	0%
37	Owl Creek Reservoir Company	Owl Creek Reservoir Rehabilitation	Weld	$ 1,125,000	1200 AF	1,200	1,200	99%	Jul-10	On-Hold	0%
38	Southeastern CO Water Conserv. District	Arkansas Valley Conduit	Crowley	$ 60,600,000	138 Miles	6,555		25%	Nov-10	On-Hold	0%
39	Penrose Water District	Water Rights Purchase and Pipeline Installation	Fremont	$ 8,844,570	30,624 LF	339		65%	Oct-10	Jan-14	0%
40	Seven Lakes Reservoir Company	Railroad Crossing	Weld	$ 772,842	7,796 AF	7,796		95%	In ReDesign		0%
41	Duel and Snyder Improvement Company	Diversion Structure Rehabilitation	Morgan	$ 90,900	4,590 AF	4,590		25%	Sep-10	On-hold	0%
42	South Metro Water Supply Authority	Raw Water Delivery - Capacity Purchase	Adams/Denver	$ 5,090,400	10,750 AF	10,750			Contracting		
43	Riverside Reservoir and Land Company	Riverside Reservoir Spillway Enlargement	Weld	$ 2,838,100	64,000 AF	105,000		50%	Sep-10	Jan-13	0%
44	Riverside Ditch and Allen Extension Company	Ditch System Rehabilitation	Chaffee	$ 186,345	3,250 LF	3,260		85%	Jul-10	Jan-12	50%
45	Parkville Water District	Canterbury Tunnel Repair	Lake	$ 1,838,200	250 LF	1,086		75%	Oct-10	Jan-12	0%
46	Las Animas Consolidated Canal Company	Diversion Structure Rehabilitation	Bent	$ 77,265	26,000 AF	26,000		30%	Oct-10	Jan-12	5%
47	Consolidated Extension Canal Company	Diversion Structure Rehabilitation	Bent	$ 180,285	26,000 AF	26,000		100%	Oct-10	Jan-12	5%
48	Huerfano-Cucharas Irrigation Company	Cucharas Reservoir Rehabilitation	Pueblo	$ 1,622,060	35,395 AF	3,000	7,500		Contracting		
49	Farmers' High Line Canal and Reservoir Company	System Rehabilitation Project	Adams/Jefferson	$ 1,410,768	31 Miles	24,000			Contracting		
	Reservoir construction projects involving storage: new, enlargment, dredging or removal of a SEO restriction.		SubTotal =	$ 222,838,437	SubTota	224,376	60,313				
			Grand Total =	$ 223,444,437		Grand Total =	61,413				

Projects Substantially Completed in FY 2010/11

1 Trinchera Irrigation Company – Smith Reservoir Rehabilitation

Authorization: Construction Fund
Water Source: Trinchera Creek
Terms of Loan: $606,000@2.75% for 30 yrs.

County: Costilla
Project Yield: 26,700 acre-feet
Project Type: Reservoir Rehabilitation

The Trinchera Irrigation Company (Company) owns and operates Smith Reservoir, Mountain Home Reservoir, and approximately 26 miles of canals and 45 miles of laterals for the purpose of providing irrigation water for the benefit of its shareholders. The Company services approximately 14,100 acres of irrigated farm land. The Company is applying for a loan to repair Smith Reservoir, which the State Engineer's Office (SEO) placed under a storage restriction. The restriction was put in place on April 22, 2009 after a storm caused considerable erosion on the upstream slope of the dam. The repairs include: correcting the slope of the dam, repairing erosion damage on the upstream face of the dam, and replacing the upstream sluice valve. The SEO approved the construction plans on November 2, 2009 and construction began immediately. The project has been completed. Project substantial completion is tentatively set for September 2010.

2 Parker Water & Sanitation District – Rueter Hess Reservoir

Authorization: Severance Tax Trust Fund PBA
Water Source: Cheery Creek (Imported water)
Terms of Loan: $15,000,000@4.5% for 20 yrs.

County: Douglas
Project Yield: 16,200AF
Project Type: New Reservoir

The District plans to construct a reservoir to store municipal water for its 8,000 customers. The reservoir is located on Newlin Gulch three miles from downtown Parker. It will be filled by Cherry Creek, Newlin Gulch, ground water and reusable effluent from waste water treatment. The dam is scheduled to begin construction in 2003 and be 135 feet tall, impounding 16,200 AF of water. The District is the remainder of the $105 million project with cash and a CWRDPA loan.

3 Swans Nest Metro District – Water Acquisition Project

Authorization: Construction Fund
Water Source: Snake River
Terms of Loan: $151,500@4.75% for 20 yrs.

County: Summit
Project Yield: 10AF
Project Type: Water Rights Purchase

The Swan's Nest Metropolitan District is located in Summit County between Breckenridge and Frisco, Colorado. It provides water service to 160 single family equivalent (SFE) customers in Swan River Ranch, The Villas at Swan's Nest, and the Upper Blue Sanitation District employee housing. In addition, it leases water to 100 SFEs in the Tiger Run RV Park. The District's water system is made up of two wells, a 240,000 gallon steel tank, and water mains throughout the area. The District uses 10 acre-feet of Vidler Tunnel water rights to augment its wells. The District currently owns the water system infrastructure but not the Vidler Tunnel water rights. The water rights are held by Breckenridge Meadows Development Co. LLC (Development Company), the original developer of the area. The Development Company acquired the water rights in the mid 1990s at the same time it acquired and developed the property in the District. The Vidler water rights have historically been used to serve the developed property without cost to the District. Through this loan, the District will finance the purchase of the Vidler Tunnel water rights so it can continue to augment the wells in the District and provide water to its customers. UPDATE: The District closed on the purchase and will substantially complete the Project on December 1, 2010.

Projects in Design or under Construction

1. Grand Mesa Reservoir Company – Rehabilitation of Reservoir No. 1 and No. 9

Authorization: Construction Fund
Water Source: Gunnison
Terms of Loan: $200,000@ 2.4% for 20-years
County: Mesa
Project Yield: 1,000 Acre-Feet
Project Type: Reservoir Rehabilitation

The ownership changed and the Company elected to do the repairs without CWCB loan funds. The contract will be voided and funds will be reversed back to CWCB in 2011. |

2. New Cache La Poudre Irrigation Company – Reservoir Construction

Authorization: Construction Fund
Water Source: South Platte
Terms of Loan: $7,200,000 @ 2.50% for 30-years
County: Weld
Project Yield: 4,500 acre-feet
Project Type: New Reservoir

The New Cache La Poudre Irrigation Company currently provides irrigation water to a 35,000-acre service area. The purpose of this project is to provide water storage to equalize ditch flows, to improve efficiency and the reliability of the Company's system, and for providing additional storage to meet future demands. The project will involve the construction of 3 separate reservoirs near the Town of Barnesville, Colorado, totaling 4,500 acre-feet of storage. Additionally, 8,200 linear feet of pipeline will be installed in construction with the reservoirs. Smith Geotechnical, Fort Collins, Colorado is the project designer. The Barnesville Reservoir project was awarded to Barker Construction, Fort Collins, Colorado and has been completed. The pump station from Barnesville Reservoir to Cornish Reservoir has been completed as well. The design for Cornish Reservoir has been completed and has been awarded to Barker Construction, Fort Collins, Colorado for construction. The Contractor has completed the work and is waiting on final SEO approval. The Company requested that CWCB's cost participation be changed from 75% to 89% to allow the full $7,200,000 of loan funds to be released, which was approved at the September 2007 Board Meeting. The project will remain open until the land purchased to construct Cornish Reservoir is paid off in 2021.

3. Orphan Wells of Wiggins – Augmentation Project

Authorization: Construction Fund
Water Source: South Platte Basin
Terms of Loan: $1,037,700 @ 2.5% for 30-years
County: Morgan
Project Yield: 6,000 acre-feet
Project Type: Well Augmentation

The Orphan Wells of Wiggins is a new company comprised of 31 separate agricultural operators that own 45 wells which irrigated approximately 4,500 acres of farmland. This project involves the construction of 1 recharge well, 1 augmentation well, various pipeline, and 23 recharge ponds. The project will generate augmentation credits to cover the depletions for the 45 existing wells. The project is currently 90% complete. The project has changed from its original scope to include additional piping and recharge sites. Additionally, the Company has purchased several Riverside Ditch shares that will improve augmentation efforts. The Company was approved for an increase of $200,000 at the November 2006 Board Meeting to complete the additional recharge sites and for the purchase of the Riverside Ditch shares. These funds have not been distributed. The Company elected to decline presenting it case in court last year, given strong objectors and the lack of senior water in its augmentation plan. Based on that decision the Company will not be able to operate and are currently in the process of dissolving the Company. CWCB is currently working with a few interested parties in purchasing the Company assets, which would be used to pay off or pay down the Company's existing

debt with CWCB. Staff has met with the board members and they agreed to substantially complete the project and put the project in repayment. They have requested that the interest that has accumulated be forgiven, which staff has denied given the precedent it would make and project history. Staff did meet with the Company's Board Members in March 2010. The Board is currently pursuing the sale of 10 shares of Riverside Ditch and the augmentation project itself to hopefully generate sufficient revenue to pay off their $900K loan with CWCB. There are a number of parties interested in purchasing Orphan Wells of Wiggins assets.

4. Mancos Water Conservancy District - Canal Rehabilitation

Authorization: Severance Tax Perpetual Account
Water Source: West Mancos River
Terms of Loan: $5,486,531 @2.80% for 30-years
County: Montezuma
Project Yield: 9,000 acre-feet
Project Type: Canal Rehabilitation

The Mancos Water Conservancy District supplies irrigation and municipal water within a 13,496 acre service area. The District's carriage facility is over 50-years old and the U.S. Bureau of Reclamation has recommended rehabilitation of the inlet and outlet canals. The proposed project is to rehabilitate inlet and outlet canals to the Jackson Gulch Reservoir and to replace its operational shops and headquarters. The District's goal is to have the entire project completed by 2014. The District has performed test sections with various lining materials to assist in determining the final design package for the ditch rehabilitation. The District has been in the process of asking the Federal Appropriations Committee for $6,200,000 in grant funds to assist in completing the project, which was approved in March of 2009. They received $1.8M Federal appropriation for 2010. The overall project is scheduled for completion in January of 2014. The District did undertake the rehabilitation of the critical portion of their ditch system in the summer 2009, involving the construction of retaining walls and access road along the ditch. District bid the piping phase in summer 2010 with construction to be completed in winter 2010.

5. Upper Arkansas Water Conservancy District – N. Fork Reservoir Rehabilitation

Authorization: Severance Tax Fund
Water Source: N. Fork of S. Arkansas
Terms of Loan: $3,520,000 @ 3.50% for 30 yrs.
County: Chaffee/Custer/Fremont
Project Yield: 500 acre-feet
Project Type: Reservoir Rehabilitation

The UAWCD has operated the North Fork Reservoir since 1979 for domestic, municipal, industrial, recreational, and augmentation water supply. The reservoir is at elevation 11,400 feet and is located approximately 10 miles from Maysville on the North Fork of the South Arkansas River. This project involves replacement of the outlet gate, improved access, increased spillway capacity, seepage control, and raising the dam 15-feet to achieve a storage capacity of 500 acre-feet. The project is located on Forest Service property, which required a special use permit and an environmental assessment prior to construction. The project was awarded to ASI, Buena Vista, Colorado, who commenced construction in August of 2006 and completed the work in May of 2007. The District will not be pursuing enlargement of the reservoir, due to issues associated with the Forest Service and the NEPA process. The District is currently working on remote monitoring equipment for North Fork Reservoir, and the NEPA process to continue operating at historic levels.

6. Union Ditch Company – Well Augmentation Project

Authorization: Severance Tax Trust Fund
Water Source: South Platte River
Terms of Loan: $312,595 @2.50% for320-years
County: Weld
Project Yield: 206 acre-feet
Project Type: Well Augmentation

The Union Ditch Company provides irrigation water to an area of 5,500 acres east of the Town of LaSalle and south of Greeley. The Union Ditch Company has filed application for an augmentation plan to provide replacement water for 40 junior wells owned by the shareholders, formerly serviced by GASP. This project involves the development of 3 recharge ponds, placement of flow measurement devices, and headgate structures into the ponds. The ponds will be filled by gravity flow from the Union Ditch. Union Ditch Company is currently constructing one recharge pond at the Miller Feedlot Site with an accompany diversion structure on the Union Ditch. The overall augmentation efforts are anticipated to be completed in 2010, which has required a time extension to their loan contract.

7. Bijou Irrigating District – Empire Reservoir Rehabilitation Project

Authorization: Severance Tax Fund
Water Source: South Platte River
Terms of Loan: $4,454,100@2.25% for 30 yrs.
County: Morgan/Weld
Project Yield: 19,900 acre-feet
Project Type: Reservoir Rehabilitation

The District is a statutory Irrigation District (1905) and owns and operates Empire Reservoir located west of Fort Morgan in Weld and Morgan Counties. It is an off-stream reservoir primarily impounded by four separate dams constructed in about 1905. Water is diverted from the South Platte River through the Empire Intake Ditch. The water storage rights are 37,709 acre-feet and there is one refill right. The water storage at gage height (GH) 30.0 is 36,142 AF. The reservoir has been re-restricted to a GH 29.0 by the SEO due to wind erosion problems along the east embankment. The proposed project consists of repairing failed sections of parapet walls, removing trees along the upstream toe of the dam, and adding additional riprap slope stabilization along the East Dike Embankment. This will allow the reservoir to be filled to its full gage height. The one-foot increase in storage height will result in 2,682 AF of recovered storage. The District has completed the 1st phase of the East Dike, which involved the reconstruction of approximately 8,500 feet of dam embankment. The remaining 4,000 feet of dike was improved in the fall/winter of 2009/2010. Given the increased cost of fuel and materials the loan contract was increased from $2.4M to $4.5M at the November 2008 Board Meeting. UPDATE: The final phase of construction is near complete. Substantial Completion is expected in by mid 2011.

8. Lower Poudre Augmentation Company – Reservoir and Water Rights Purchase

Authorization: Severance Tax Fund
Water Source: South Platte
Terms of Loan: $3,104,053@2.50% for 30 yrs.
County: Larimer/Weld
Project Yield: 657 acre-feet
Project Type: Reservoir & Water Rights

The Lower Poudre Augmentation Company (LPAC) is a non-profit company that was incorporated in 2004, by the New Cache La Poudre Irrigating Company (2/3 interest) and the Cache La Poudre Reservoir Company (1/3 interest. There are 88 wells owned by 35 individuals/entities and the augmentation demands are approximately 3200 AF. The LPAC has filed for a permanent Augmentation Plan, and has operated on a Substitute Water Supply Plan for 3-4 years. LPAC proposes to purchase the Timnath Flatiron Reservoir, and 4.5 shares of Boxelder Ditch, and construct the necessary improvements to utilize the reservoir for augmentation purposes. The reservoir currently has a storage capacity of approximately 657 AF, with a depth of 12-15 feet. The reservoir area was mined for sand and gravel and lined with clay once mining was complete. The reservoir has received SEO certification as a lined gravel pit storage facility. The Company has purchased the reservoir and water rights and is currently constructing the reservoir improvements. Substantial completion is expected spring of 2011.

9. Bull Creek Reservoir Canal and Power Company – Reservoir Rehabilitation

Authorization: Severance Tax Fund
County: Mesa

Water Source: Colorado River
Terms of Loan: $1,212,000@ 2.5% for 30 yrs.
Project Yield: 900 acre-feet
Project Type: Reservoir Rehabilitation

The Bull Creek Reservoir, Canal and Power Company is located in Mesa, Colorado, and has a service area of approximately 800 acres. The Company operates the Bull Creek Reservoirs that provide irrigation water to shareholders. The Project is a repair to remove the current restriction on Reservoir #4 and provide additional storage necessary to store the Company's decreed rights. The Company has a Stipulation and Agreement with the SEO that requires the Company to repair Reservoir No. 4 in order to avoid abandonment of a portion of the senior water rights. The Project is located on the US Forest Service property and will require a Special Use Permit for access roadway work and dam construction. The reservoir is remote and located at 10,000 feet elevation. The project was approved by the Board in 2006, but has been re-scoped to address SEO concerns and higher then previously anticipated construction costs. The Company received SEO approval in August of 2008. The contractor, Geer-up-Construction, completed the outlet works, seepage control, and 75% of the dam embankment reconstruction. Work was suspended in October of 2008 due to weather. The contractor negotiated a new contract with the Company to finish the remaining work in the summer of 2009. The Company elected to release the original engineering firm and hired Vista Engineer, Grand Junction, Colorado to finish the project. Geer-up-Construction mobilized in July of 2009 and was failed to complete the project by winter. The remaining items (spillway cutoff wall and rip rap, minor rip rap placement along the upper dam face, monitoring devices, final grading of the dam crest, re-vegetation, and cleanup) were completed in the summer of 2010 by Sorter Construction. The Board approved a loan increase of approximately $250,000 at the September 2009 Board Meeting. The project construction is now 100% complete. The Company is currently addressing a court claim filed by Geer-Up Construction. The Company received approval of additional funding at the November 2010 CWCB Meeting.

10. Overland Ditch and Reservoir Company – Reservoir Rehabilitation

Authorization: Severance Tax Fund
Water Source: Cow Creek
Terms of Loan: $1,130,000@ 2.5% for 30 yrs.
County: Delta
Project Yield: 17,000 AF
Project Type: Reservoir Rehabilitation

The Overland Ditch and Reservoir Company's 120 members own and operate the Overland Reservoir, located in Delta County in the Gunnison National Forest at elevation 10,000-ft. This project involves increasing the current reservoir capacity from 6,200 AF to 7,171 AF, raising the spillway elevation 3.8 feet, installing toe drains, increasing the dam crest width, and additional embankment protection. The Overland Ditch Company shareholders at their August 2006 Board Meeting, approved increasing the capacity of the reservoir. The project is currently under design, with construction on-hold until fens can be addressed on-site. High altitude fens on the Grand Mesa have become a significant issue and staff is currently working with area water users, local wetland consultants, and the Army Corps of Engineers to address this problem on a regional permit basis.

11. Montezuma Valley Irrigation Company – May Lateral Pipeline

Authorization: Severance Tax Fund
Water Source: Dolores River
Terms of Loan: $5,292,400@2.25% for 30 yrs.
County: Montezuma
Project Yield: 128,000 acre-feet
Project Type: Pipeline

The Montezuma Valley Irrigation Company is a non-profit corporation established in the State of Colorado in 1920. The Company manages the delivery of irrigation water to the approximately 46,000 acre service area. The Company is proposing to install approximately five (5) miles of 36-inch pipe in the existing May Lateral Ditch alignment. The installation of pipe will improve delivery and significantly reduce leakage. The

May Lateral water is diverted from the Dolores River and is routed through the McPhee Reservoir prior to delivery to shareholders. The new pipeline will carry approximately 18 cfs to the 105 shareholders that depend on the May Lateral for irrigation water. AgriTech Consulting has provided planning and preliminary design services. The Company has completed the installation of the entire pipe along the 5-mile project length. Substantial Completion is expected in by mid 2011.

12. Platte Valley Irrigation Company – New Equalizer Reservoir Project

Authorization: Severance Tax Fund
Water Source: South Platte River
Terms of Loan: $2,388,650@2.25% for 20 yrs.
County: Weld
Project Yield: 52,401 AF
Project Type: Reservoir Construction

PVIC is a Colorado mutual ditch company and non-profit corporation serving approximately 14,832 acres of irrigated farm land in Weld County east of Platteville. PVIC diverts water for irrigation from the South Platte River near Fort Lupton and shares a jointly owned headgate with Farmers Reservoir and Irrigation Company (FRICO), as well as about 10 miles of the jointly owned Platte Valley Canal. Average annual diversions are 52,401 acre-feet. PVIC needs an equalizer on the ditch to allow for more efficient management of the water, as well as additional measurement and control structures on their main ditch. The reservoir will have a junior water right for storage of water directed to PVIC's recharge program. In an average year the reservoir is expected to store 300 acre feet, with a 300 acre feet refill. Construction will consist of a 431 acre-foot reservoir with a 14 foot high dam embankment with 10:1 upstream slopes and 3:1 downstream slopes. The reservoir bottom will be lined using clay from the required excavation as necessary to exclude groundwater. The outlet will be a 48 inch RCP, configured to act as the principal spillway. The project also includes relocation of an existing section of Evans No. 2 Ditch below the split from the Platte Valley Canal, modification of the existing bifurcation structure, and construction of three (3) new Parshall Flumes in various reaches of the ditch, as directed by the Water Court. The project is being designed by Smith Geotechnical, Fort Collins, Colorado, with construction anticipated to commence in July/August 2010.

13. Greeley Irrigation Company – Greeley No. 3 Canal Rehabilitation

Authorization: Severance Tax Fund
Water Source: South Platte
Terms of Loan: $2,233,867@2.85% for 30 yrs.
County: Weld
Project Yield: 18,000 acre-feet
Project Type: Canal Rehabilitation

The Greeley Irrigation Company (GIC) provides irrigation water to a service area of 2,367 acres in Weld County, generally within the City of Greeley and east of the City. GIC operates the Greeley Canal No. 3, constructed in 1870 by the Union Colony. About 1,100 acres of the 3,500 original irrigated acres have been subject to dry-up, and water converted to augmentation use. Present canal usage is roughly 1/3 City of Greeley, 1/3 agricultural irrigation, and 1/3 augmentation. GIC facilities consist of a river diversion structure, approximately 13 miles of earthen canal, check structures, delivery headgates, spill structures, trash screens, and other minor structures. A portion of these facilities are in need of repair, upgrades, or replacement. The GIC Board is undertaking a number of phased improvements to the canal including: 1) repairs to, and partial replacement of, the river diversion; 2) piping or lining of portions of the canal; 3) consideration of canal automation using supervisory control and data acquisition (SCADA) equipment; 4) tree removal and tree pruning; 5) canal realignment, reshaping, and straightening; and 6) removal or repair of selected headgates and installation of new headgates. The project is nearly complete. The Company is currently working on their SCADA system and the realignment and reshaping of various sections of existing channel.

14. Henrylyn Irrigation District – Horse/Prospect Reservoirs Rehabilitation

Authorization: Severance Tax Fund
Water Source: Denver/Hudson Canal
Terms of Loan: $2,184,327@2.25% for 30 yrs.
County: Weld
Project Yield: 13,850 acre-feet
Project Type: Reservoir Rehab.

The HID was formed in 1907 Irrigation District Law of 1905, and consists of 32,745 acres of irrigated farm land in Weld County. The HID diverts water through the Burlington Canal Headworks on the South Platte River, extending 16 miles to and past Barr Lake. From Barr Lake the Denver-Hudson Canal continues 25 miles to Horse Creek Reservoir, and then continues another 25 miles to Prospect Reservoir. Horse Creek Reservoir was constructed in 1910, and is a High Hazard, Class 1 earth fill dam, with a dam height of 64 feet, a length of 4800 lineal feet, and a crest width of 16 feet. There is a 200 foot wide earth-lined spillway. The decreed storage right is 19,515 AF, but normal storage is 18,747 acre feet. The outlet works consist of 3 x 48" diameter steel conduits. The proposed project will provide a lining for the outlet works, install additional toe drainage, and resurface and re-grade the dam crest. Prospect Reservoir was constructed in 1914, and is a Significant Hazard, Class 2 earth dam, with a dam height of 43.5 feet, a length of 5,301 lineal feet, and a crest width of 20 feet. There is a 250 wide concrete and riprap spillway. The decreed storage right if for 7,660 AF, but the normal storage is 6,368 acre feet. The outlet works consist of a 48" concrete pipe that narrows to about 30" downstream of the control gate, due to previous re-lining projects. The reservoir is currently restricted to 1.5 feet below the historic maximum stage, due to concerns about the stability of the downstream slope of the dam. The proposed project will provide a lining for the outlet works, and resurface and re-grade the dam crest. Zak Dirt Construction has completed reconstruction of outlet channel and has regraded the dam crest on Horse Creek Reservoir. On Prospect reservoir the outlet pipe has been lined and regrading of the dam crest is complete. The Company is also evaluating the possible need to replace the existing gates at Prospect Reservoir and regarding of the dam face.

15. New Salida Ditch Company – Ditch Rehabilitation

Authorization: Severance Tax Fund
Water Source: Upper Arkansas River
Terms of Loan: $365,620@2.50% for 30 yrs.
County: Chaffee
Project Yield: 7,000 acre-feet
Project Type: Ditch Rehabilitation

The New Salida Ditch Company owns and operates the New Salida Ditch to deliver water to agricultural users from the Arkansas River through a diversion in Browns Canyon. The diversion is located 10 miles north of Salida and is approximately eight miles from its diversion to its end at Ute Gulch. In Browns Canyon, the Ditch runs parallel to the River for 1.25 miles. This section as historically been difficult for the Company to maintain and has suffered frequent breaks, resulting in costly repairs and the discharge of sediment into the adjacent river. The Company was cited by the Colorado Department of Health and Environment for a recent failure of the ditch in 2005. This project involves the installation of 3,200 feet of 42-inch pipe along the historically troubled ditch area. Project construction commenced in September of 2009 and should be completed in early 2011.

16. Farmers Pawnee Canal Company – Ditch Flow Control Structures

Authorization: Severance Tax Fund
Water Source: South Platte River
Terms of Loan: $227,250@2.5% for 30 yrs.
County: Logan
Project Yield: 27,260 acre-feet
Project Type: Diversion Rehabilitation

The Farmers Pawnee Canal Company (Company) provides irrigation water to approximately 10,000 acres of land between Merino and Sterling, Colorado. It uses two separate structures to control flow in the Pawnee Ditch (Ditch). The first is a main diversion at the South Platte River. The second is a few miles down the

Ditch and is used to adjust flow. The main diversion is a concrete rollover wall with vents to allow flushing of sand when opened. The secondary structure is currently controlled through the use of board style gates. Both structures are labor intensive and require monthly maintenance. To help with efficiency, the Company plans on replacing a portion of the main diversion with a new 12-foot radial gate. It also plans on replacing the board gates at the secondary structure with four 8-foot wide radial gates. Ransome Boone Excavating, Fort Morgan, Colorado has completed the ditch control structure. The Company recently completed improvements to their diversion structure and will look at automating the gate.

17. North Sterling Irrigation District – North Sterling Reservoir Rehabilitation

Authorization: Construction Fund
Water Source: South Platte River
Terms of Loan: $1,094,840@2.25% for 20 yrs.
County: Logan
Project Yield: 74,590 acre-feet
Project Type: Reservoir Rehabilitation

The District owns and operates the North Sterling Reservoir (Reservoir) located in Logan County and provides stored and direct flow water to landowners within the District's 40,917 acre service area. The District service area begins just east of the North Sterling Reservoir approximately 15 miles northwest of Sterling, Colorado and extends east to just northeast of Crook, Colorado. The Reservoir faces the possibility of a storage restriction from the State Engineer's Office without the construction improvements to the current spillway and the dam. In order to retain full storage capacity, the District intends to enlarge the existing spillway, raise the dam crest, and install a seepage collection system at the Reservoir. Construction commenced is September of 2009 and was completed by September 2010. Substantial Competition is scheduled for June 1, 2011

18. Republican River Water Conservation District – Compact Compliance Pipeline

Authorization: Severance Tax Fund
Water Source: Republican River
Terms of Loan: $60,600,000@2.0% for 20 yrs.
County: N. E. Colorado
Project Yield: 15,000 acre-feet
Project Type: Pipeline Construction

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*. Colorado agreed to develop a ground water model to determine stream flow depletions caused by well pumping in the Basin and to a five-year running average to determine compliance with the Republican River Compact. In 2007, the State had exceeded its allocation under the Compact by an average of 11,350 AF/yr. To solve the problem the District elected to acquire ground water rights with a historical consumptive of 15,000 AF/yr. This water will be delivered to the North Fork of the Republican River via a Compact Compliance Pipeline to the stream gage at the Colorado-Nebraska state line to offset stream depletions. The District is requesting a loan from the CWCB in the amount of $60 million to finance the engineering, construction and water acquisition related to the Pipeline Project. The loan represents approximately 85% of the estimated $71 million total cost of the Project. Final design is expected to start in the spring of 2008 and construction is scheduled for 2009 & 2010. The District has completed the design and bid packet for the project. Prior to construction and the disbursement of any additional CWCB loan funds, however, the District will need to resolve compact issues with Kansas regarding the recent concern over the proposed point of release of compact water on the North Fork of the Republican, which does not address the depletions on the South Fork of the Republican at the Colorado-Kansas state line and other related issues. The Republican River WCD did recently address issues of senior surface water users along the North Fork by the purchase of a 20-year lease from Yuma County Water Authority, who recently purchased the North Fork Water Rights under a separate CWCB loan contract. The District has completed the design plans and construction documents for the project. On June 19, 2009, utilizing CWCB loan funds, the District successfully closed the $49,000,000 Cure water purchase, which was a critical piece to the overall success of the compliance project. The State is currently in arbitration

with Kansas on and Nebraska over its compact compliance, which will dictate the future of the compliance pipeline project. UPDATE – In December 2010, the District elected to begin pipeline construction with an anticipated completion by mid 2013.

19. Ogilvy Augmentation Company – Well Augmentation Project

Authorization: Severance Tax Fund
Water Source: South Platte River
Terms of Loan: $1,010,808@2.5% for 30 yrs.
County: Weld
Project Yield: 60 acre-feet
Project Type: Augmentation

The Ogilvy Augmentation Company (Augmentation Company) was established in 2005 to augment wells that operate under the Ogilvy Irrigating and Land Company service area. Approximately 1,400 acres of land are irrigated by the Augmentation Company members in an area north of Kersey, Colorado. There are 17 wells in the Augmentation Company that operate under its temporary subsitute water supply plan (SWSP). The SWSP is currently operated using leased water. A permanent water supply is necessary for the Augmentation Company to obtain a permanent augmentation plan. Funds are being requested from the CWCB to: purchase water rights, construct a recharge facility, construct a storage reservoir,and install monitoring devices. The Augmentation Company intends to purchase the water rights upon the approval of the CWCB funding and construct the recharge facility in fall/winter of 2008. It will file for its permanent augmentation plan in 2009. Once the permanent augmentation plan is approved, construction will begin on the storage reservoir. The Company has purchased the water rights and has constructed the recharge facility. The Companhy is waiting on approval of their augmentation plan before proceeding with the construction of the reservoir.

20. Boulder White Rock Ditch and Reservoir Company – Reservoir Rehabilitation

Authorization: Severance Tax Fund
Water Source: South Platte River
Terms of Loan: $2,864,164@3.45% for 30 yrs.
County: Boulder/Weld
Project Yield: 12,000 acre-feet
Project Type: Reservoir Rehabilitation

The Boulder White Rock Ditch and Reservoir Company (Company) delivers irrigation water to land in Boulder and Weld Counties. It diverts water from Boulder Creek in downtown Boulder through the Boulder White Rock Ditch and stores water in two of its facilities: Six Mile Reservoir and Panama Reservoir. Due to recent operational changes, the Company no longer exchanges water with nearby ditches and needs to improve the flexibility in its own system to meets its shareholder's needs. The Company intends to build a reservoir pump station at the Panama Reservoir outlet in order to use water stored in the reservoir that is unable to be accessed through the existing gravity outlet. The Company was approved for a loan increase in the amount of $434,000. The project commenced construction in December of 2009 and is nearly complete.

21. Snowmass Water and Sanitation District – Zeigler Reservoir Water Management System

Authorization: Construction Fund
Water Source: Snowmass Creek
Terms of Loan: $1,952,805@4.25% for 20 yrs.
County: Pitkin
Project Yield: 1,800 acre-feet
Project Type: System Improvements

The District's project involves the constructing of a new delivery system; which includes the construction of a pump house, approximately 1,400 ft of pipe, construction of a flow control building, installation of telemetry and electric power. The District diverts water for treatment from East Snowmass Creek and East Snowmass Creek Spring, Brush Creek and Snowmass Creek. The District presently does not have a useable raw water storage facility, but purchased Ziegler Reservoir (aka Lake Deborah) in 2008 for the express purpose of improving system reliability by expanding the reservoir from its current 57 AF to approximately

225 AF. The District currently serves approximately 3,500 full time residents and during the winter ski season an additional 10,000 to 12,000 residents. To regulate flows and provide a supply during times of diminished stream flows, a system to divert water to and pump water from the reservoir is required. This Project will help the District to deliver water to utilize Ziegler reservoir as well as serve for the planned expansion of the reservoir. Construction is nearly complete. UPDATE – The District elected to not use CWCB funds for this portion however they will apply for a new loan in January 2011 for the rehabilitation of Ziegler Reservoir.

22. Farmers Reservoir and Irrigation Company – Milton Reservoir and Barr Lake Improvements

Authorization: Construction Fund
Water Source: Beebe Seep Canal/Platte Valley Canal
Terms of Loan: $3,535,000@3.7% for 30 yrs.
County: Adams/Weld
Project Yield: 125,000 AF
Project Type: Spillway

Farmers Reservoir and Irrigation Company operates a ditch and reservoir system extending 3,500 square miles along the Front Range corridor, from Golden to Kersey, Colorado. The system consists of four major reservoirs (Standley Lake, Marshall Lake, Barr Lake and Milton Reservoir) numerous smaller reservoirs, and approximately 400 miles of diversion and delivery canals. This loan request specifically relates to work to be completed at Milton Reservoir and Barr Lake. The Company intends to complete the following three projects: Milton Reservoir Outlet Works (replacing the upstream outlet gate structure and a portion of the piped outlet works), Milton Spillway (enlarging the existing spillway), and Barr Lake Spillway (enlarging the existing spillway and raising the perimeter dike). These projects have been submitted to the SEO for review and have been approved. The Company commenced improvements on Milton Reservoir in October of 2009, which are approximately 95% complete. Barr Lake improvements started in October of 2010. UPDATE – the Project is near complete Substantial Completion is expected around mid/late 2011.

23. Raymond Dairy, Incorporated – Concrete Ditch Reconstruction Project

Authorization: Construction Fund
Water Source: Grand Valley Canal
Terms of Loan: $63,950@2.5% for 30 yrs.
County: Mesa
Project Yield: 386 AF
Project Type: Ditch Rehabilitation

The Raymond Dairy, Inc. is located just northwest of Fruita, Colorado and is owned by Robert and Helen Raymond. The Raymond Ditch has a capacity of 3.5 cfs and is used to carry irrigation water to approximately 125 acres of field crops for dairy cattle. This Project involves replacing 2,400 feet of the ditch, and installing new head gates and punch plates. This Project will decrease ditch seepage; thereby improving the environment by reducing salt leaching into the Colorado River. NRCS has provided planning and design engineering services for this work. The total project cost is $95,000. The Borrower has been approved for a grant from NRCS that will cover approximately 33% of the cost of the Project. Construction is scheduled for the fall of 2009. Proposed CWCB funding consists of an initial loan from CWCB for $95,950 that will be reduced by the NRCS grant. The remaining $63,950 will become a 20-year CWCB Loan. The project commenced construction in November of 2009 and has been completed. The borrower anticipates a Substantial Completion date of February 1, 2010.

24. Lower Latham Reservoir Company – Well Augmentation Project – Phase III

Authorization: Construction Fund
Water Source: South Platte River
Terms of Loan: $3,811,573@2.75% for 30 yrs.
County: Weld
Project Yield: 5,705 acre-feet
Project Type: Augmentation

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

25. WRCC, Inc. – Cobb Lake Inlet Structure Rehabilitation

Authorization: Construction Fund
Water Source: Cach La Poudre
Terms of Loan: $1,301,890@2.85% for 30 yrs.
County: Larimer/Weld
Project Yield: 35,000 AF
Project Type: Reservoir Rehabilitation

WRCC, Inc. (Company) owns and operates six storage reservoirs in Larimer and Weld Counties including Cobb Lake (Reservoir). The inlet ditch to the Reservoir has been badly eroded over time and vertical degradation has resulted in very steep ditch side slopes that are a safety concern. The inlet structures were built in the early 1900s and have been patched over the years; however, they are to the point where they could be subject to sudden catastrophic failure. If this inlet failed, the Reservoir could not be filled. The Company intends to reconstruct the exising inlet structures ditch to address both the safety and possible failure issues. Construction is was complete in November 2010 however additional work is necessary to protect channel from additional erosion. Additional CWCB funding requested in January 2011.

26. Town of Gypsum – LEDE Ditch and Reservoir Rehabilitation

Authorization: Construction Fund
Water Source: Colorado River
Terms of Loan: $2,689,731@4.5% for 30 yrs.
County: Eagle
Project Yield: 685 acre-feet (254 new)
Project Type: Reservoir Rehabilitation

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

27. Town of Dillon – Old Dillon Reservoir Enlargement

Authorization: Construction Fund
Water Source: Salt Lick Gulch
Terms of Loan: $1,515,000@4.0% for 30 yrs.
County: Summit
Project Yield: 286 acre-feet (140 new)
Project Type: Reservoir Enlargement

The Town of Dillon is applying for a loan to participate in the enlargement of the Old Dillon Reservoir. In 2004, the Town, Summit County and Town of Silverthorne signed an agreement to enlarge the reservoir. The Town's participation cost is approximately 27% of the construction costs and 20% of the Engineering costs. The Town and the County initiated a feasibility study in 1995. The Reservoir was originally constructed as a 46 AF raw water storage reservoir filled via the Dillon Ditch, which diverts from Salt Lick Gulch. The Reservoir site is southwest of the Dillon Reservoir Dam. In the summer of 2008, the SEO issued an order to drain the Reservoir due to concerns over the integrity of the north dam. The Reservoir is currently not available for storage. The project will increase the reservoir capacity from 46 to 286 acre-feet. Permitting and design have been completed and a contractor has been selected. Construction is expected in 2011/12.

28. Lake Canal Reservoir Company – South Gray and Gray No. 3 Reservoir Rehabilitation

Authorization: Construction Fund
Water Source: Box Elder Creek
Terms of Loan: $433,000@3.15% for 30 yrs.
County: Larimer/Weld
Project Yield: 1,120 AF (165 AF new)
Project Type: Reservoir Rehabilitation

The Lake Canal Reservoir Company is requesting a CWCB loan for reservoir improvements that include: 1) the installation of toe drains on the South Gray dam 2) the breaching of Gray No. 3 dam including erosion protection and access road realignment. The Project is necessary to address a SEO Dam Safety hazard and avoid the potential for a reservoir storage restriction. The South Gray Reservoir dam has excessive seepage along a major portion of the dam. The Reservoir Company desires to preserve the storage right on this reservoir and is interested in adding a toe drain or other seepage measures to ensure the safety of the dam. Gray Reservoir No. 3 is restricted to zero storage by the SEO due to the poor condition of the dam and outlet works. The Reservoir Company has received a court decree allowing the storage to be moved to other locations. Contractor has been selected and work will begin in November 2010.

29. City of Monte Vista – Augmentation Water Rights Purchase

Authorization: Construction Fund
Water Source: Rio Grande River
Terms of Loan: $1,693,770@4.0% for 30 yrs.
County: Rio Grande
Project Yield: 321 AF
Project Type: Water Rights

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

30. Fort Morgan Reservoir and Irrigation Company – Pipeline Project/Augmentation Retiming

Authorization: Construction Fund
Water Source: South Platte River
Terms of Loan: $1,494,800@2.9% for 30 yrs.
County: Morgan
Project Yield: 37,058 AF
Project Type: Augmentation/Pipeline

The Company operates a ditch system that serves surface water to approximately 15,000 acres of irrigated land between Weldona and Brush, and operates a recharge and augmentation plan that provides augmentation water for approximately 90 irrigation wells. In addition, the Company has an operational agreement with Groves Farms, LLC, which is a family farming corporation also located in Morgan County, for a recharge/augmentation plan. The Company, with Groves Farms, has designed a plan to re-divert and re-time augmentation credits from the Company's more senior recharge projects at certain times when they are not needed for direct augmentation use, and to divert water under new junior water rights when available for recharge and augmentation use. The Project involves installing one 24" pipe from the River extending three miles to recharge ponds on Groves Farms' land; installing two pumps to pump water from the River through the pipeline; installing one augmentation well and pumping equipment near Groves' ponds to pump ground water back to the South Platte River; and installing seven recharge /augmentation ponds on Groves Farms' land. Project construction is underway and scheduled for completion in the spring of 2011.

31. Joseph W. Bowles Reservoir Company – Bowles No. 1 Dam Rehabilitation

Authorization: Construction Fund
Water Source: Bear Creek
Terms of Loan: $1,703,870@4.65% for 30 yrs.
County: Jefferson
Project Yield: 2,062 acre-feet
Project Type: Reservoir Rehabilitation

The Joseph W. Bowles Reservoir Company (Company) owns and operates Bowles No. 1 Reservoir, located in the southwest metropolitan area of Denver. The Company was formed in 1906 and currently has 50 shareholders who use the water for golf courses, parks, open space, and some individual ranches for irrigation water. The Company is applying for a loan to implement several repairs to correct dam-safety deficiencies and improve the long-term performance of Bowles No. 1 Dam and to rehabilitate the deteriorating reservoir inlet ditch. The dam rehabilitation includes widening the crest, reconstructing the upstream slope, and installing a seepage collection and toe drain system on the downstream slope. Work on the inlet ditch includes removing trees, reconstructing the ditch cross section and alignment, placing slope protection in high erosion areas, and installing a flow control pipe that will provide for discharge of excessive ditch flows into an existing spillway and drainage structure. Construction has begun with completion expected by Spring 2011.

32. Stagestop Owners Association – Water Augmentation Reservoirs Project

Authorization: Construction Fund
Water Source: Old House Creek/ Tarryall River
Terms of Loan: $192,708@2.25% for 20 yrs.
County: Park
Project Yield: 20AF
Project Type: Dam Rehabilitation

The Stagestop Owners Association represents property owners in the Stagestop subdivision, located near Jefferson, Colorado. The Association was incorporated in 1976 and is made up of 500 single-family residential lots. Individual wells supply water to each lot in the Association. There are 199 active wells at this time. Groundwater depletions from these wells are offset by an augmentation decree that includes storage and releases of water from Old House Creek. The water is stored in two reservoirs referred to as the Upper Reservoir and Lower Reservoir. Both reservoirs need outlet work repair. The Upper Reservoir is under a fill restriction by the Office of the State Engineer. Through this project the Association plans on replacing the existing outlet pipes at both reservoirs, installing new outlet structures and valves, and

reconstructing the existing spillways. Construction has begun and is expected to be complete by the spring of 2011.

33. Grand River Ditch Company – Grand River Ditch Pipeline

Authorization: Construction Fund
Water Source: Colorado River
Terms of Loan: $543,380@4.20% for 30 yrs.
County: Garfield
Project Yield: 14,500 AF
Project Type: Ditch Rehabilitation

The Grand River Ditch Company operates the Grand River Ditch by providing direct flow irrigation water from the Colorado River. The ditch is 14 miles long and runs on the north side of the river from three miles west of New Castle to about a mile east of Rifle. In the spring of 2010, a retaining wall that protects the ditch from the river collapsed. The Company plans to repair the ditch by piping the damaged section, and by installing riprap and rock jetties in the river. Construction is expected to begin October 2010. NRCS has provided design engineering services for the Project. The Company has been approved for a $100,000 grant from the USDA Farm Service Agency Emergency Conservation Program for this Project along with a $20,000 WSRA Basin Grant. CWCB loan funding will allow for an initial loan for 100% of construction costs which will be reduced by the grant dollars received. The remaining balance will become a 30-year CWCB Loan. Construction has begun and is expected to be complete by the spring of 2011.

34. Louden Irrigating Canal and Reservoir Company – Reservoir Rehabilitation

Authorization: Severance Tax Fund
Water Source: Big Thompson River
Terms of Loan: $263,610@3.5% for 30 yrs.
County: Larimer
Project Yield: 150 acre-feet
Project Type: Reservoir Rehabilitation

The Louden Irrigating Canal and Reservoir Company owns and operates the Rist Benson Reservoir, which is on the west side of Loveland, Colorado. Since 2005, the Reservoir has been restricted to a gauge height of 10.0 feet due to seepage problems along the dam. The Borrower has repaired two sections of the embankment in previous years. This Project is the third phase of repairs and once completed will increase storage by 150 AF allowing for full storage of 491 AF. The rehabilitation involves excavating and re-compacting sections of the embankment, installation of a toe drain, and installing riprap on the upstream face of the dam. Construction is expected to begin in February 2011 with completion by spring 2011.

35. Pagosa Area Water and Sanitation District – Dry Gulch Reservoir Land Acquisition

Authorization: Construction Fund
Water Source: San Juan River
Terms of Loan: $11,217,060@3.50% for 30 yrs.
County: Archuleta
Project Yield: 35,000 acre-feet
Project Type: Land Acquisition

District serves 9,500 residents in the 100 sq. mile District service area. Drought and demand from growth is requiring additional storage and of around 12,400 AF of storage by 2040. Growth projections estimate the need for a 35,000 AF reservoir to meet demand through 2100. Dry Gulch site is the only reasonably valued site available due to land development. Primary fill source will be pumping of San Juan River water to the reservoir. A CWCB loan will be used to purchase two parcels of land to begin the process of meeting the needs of the District. The land is needed for both sizes of reservoir. Preliminary design and permitting is expected to start in 2008 and construction of the reservoir is projected to start in 2020. CWCB has disbursed just under $10,000,000 in loan funds for land purchases to-date.

36 Supply Irrigation Ditch Company – Knoth Reservoir Dam Rehabilitation

Authorization: Severance Tax Fund
Water Source: St. Vrain Creek
Terms of Loan: $1,515,000@2.6% for 30-years
County: Boulder – N.E. of Lyons
Project Yield: 4,800 acre-feet
Project Type: Dam Rehabilitation

Supply Irrigating Ditch Company services approximately 8,500 acres of irrigated farmland in Boulder County between Lyons and Mead. Currently the water for irrigation is supplied by a direct flow decree and from the Beaver Park Reservoir (which is approx. 25 miles west of the start of the Supply Ditch near the continental divide). Supply Irrigating Ditch Company is in the process of acquiring a storage decree within Knouth Reservoir in exchange for the rehabilitation of the reservoir. This reservoir will give the Company some system flexibility, as this storage is significantly closer to users than Beaver Park Reservoir. The reservoir improvements include: construction of a spillway, removing vegetation from the embankment of the dam, lining select areas on the upstream dam face with a clay liner, placing riprap along the upstream dam face, enclosing an irrigation ditch within a pipe, and installing dam instrumentation. URS Corporation is currently working on the final SEO plans, which could be approved sometime this summer. Design changes and refinement of the original cost estimate have resulted in an increase to the overall project cost. The Company was approved for additional loan funds at the November 2009, for a new loan amount of $1,515,000. The Company was recently informed by Little Thompson Water District that they will not be participating in the project, given the cost per acre-foot to complete the project. The Company is currently evaluating its options to continue with the project.

37 Owl Creek Reservoir Company - Reservoir Rehabilitation

Authorization: Construction Fund
Water Source: Owl Creek Basin
Terms of Loan: $1,125,000 @2.75% for 30-years
County: Weld
Project Yield: 1,200 acre-feet
Project Type: Reservoir Rehabilitation

Owl Creek Reservoir is located approximately 6 miles east and 3 miles north of the Town of Ault. The reservoir was originally constructed in 1896 to store water for irrigation. The dam was constructed of granular material, and over the years has suffered structural damage due to seepage. Given the condition of the dam embankment and the potential for failure, the dam was intentionally breached in 1983. The proposed project involves rehabilitating the existing dam embankment, the construction of a controlled outlet structure, and the construction of an emergency spillway. The project was bid in the fall of 2003. The Reservoir Company is currently exploring its options increasing the dredging quantity to obtain its full storage decree of 1,750 acre-feet. The Company is considering applying for additional funds from the Board to achieve the full reservoir capacity. Additionally, the Company has amended the loan contract for a 1-year time extension to complete the work. The Company is also researching the possibility of utilizing Owl Creek Reservoir as storage facility from flows outside of Owl Creek. This could be accomplished by pumping water from the Larimer Weld Canal, located approximately ¾ of a mile downstream of the reservoir. The Company has received bids and is currently negotiating with Barker Construction, Fort Collins, Colorado to construct project for approximately $1,250,000. The Company has expended approximately $450,000 to-date for permitting, soils, and design and will need an additional $600,000 to complete the project. Staff has indicated to the Company that additional collateral will be required to proceed forward with a loan increase, which is currently being considered.

38 Southeastern Colorado Water Conservancy District – Arkansas Valley Conduit

Authorization: Severance Tax Fund
Water Source: Arkansas – Fry Ark Project
Terms of Loan: $60,600,000@3.25% for 30 yrs.
County: Pueblo, Crowley, Otero, Bent
Project Yield: 6,555 AF
Project Type: Raw Water Pipeline

The Arkansas Valley Conduit is designed to bring relatively clean raw water to 41 water providers in the lower Arkansas Valley, who currently either take water from the Arkansas River, and\or pump from shallow and\or deep aquifers. This pumped water has quality problems and requires significant treatment before it meets Clean Drinking Water standards. The conduit will begin at Pueblo Reservoir Dam, where a 30.94 cfs municipal outlet is already in place and reserved for the specific use of the conduit. The conduit will gravity flow approximately 138 miles down the Arkansas River Valley to Lamar. The conduit water will flow by the St. Charles Mesa Water District where it will enter a water filtration plant. As the conduit moves down the valley, spurs will take off the main line to deliver water to local and regional water providers. The conduit will receive its water from the USBR Fryingpan-Arkansas Project. Currently, about 5,779 acre-feet of water per year is available for entities East of Pueblo in an average year. Additionally, Return Flows are retained by the District and can be exchanged back up to Pueblo Reservoir for delivery. These Return Flows can provide up to an additional 1,600 acre-feet of water. Storage is available to these entities in Pueblo Reservoir because they are in the SECWCD service area. This storage will help provide water in the years when less than average water is provided by the Fry-Ark Project. The water will be provided strictly for municipal and industrial purposes. Final chlorination or treatment will be left up to each water provider. The conduit is currently planned to be paid 80% (approximately $240 million) by the federal government. The District is anticipating securing federal funding in 2009/2010, with design and construction to follow.

39 Penrose Water District – Water Rights Purchase and Pipeline Installation

Authorization: Severance Tax Fund
Water Source: Arkansas River
Terms of Loan: $8,844,570@3.25% for 30 yrs.
County: Fremont
Project Yield: 339 AF - Consumptive
Project Type: Pump/Pipeline/Reservoir

The District currently provides domestic water to approximately 4,000 people with 1,700 taps in and around the Town of Penrose, with existing demand of 489 acre-feet per year. The District's water supply is a lease with the Beaver Park Water, Inc. (BPW) who owns and operates Brush Hollow Reservoir. The 1990 lease has a 30-year term, and provides an increasing amount of water each year, 751 AF in 2006, leveling out at 1,000 AF in 2020. In drought years, the amount available to PWD is further reduced below the contract amount. Future build-out demand in 2040 is projected to be 1,200 acre-feet for about 8,000 residents and 3,240 taps. The Project includes the acquisition of 5/6th of the Pleasant Valley Ditch water rights. Water will be diverted through alluvial wells and pumped 6 miles through a 12-inch pipe to Brush Hollow Reservoir. Brush Hollow Reservoir will be used to store the water through a storage agreement. Water rights were purchased in 2005 with bridge financing. A water court application was filed in 2006. Pump and pipeline construction is scheduled to occur in 2010 and 2011, with total project completion anticipated in 2012.

40 Seven Lakes Reservoir Company – Reservoir Rehabilitation

Authorization: Severance Tax Fund
Water Source: South Platte
Terms of Loan: $772,842@ 2.95% for 30 yrs.
County: Weld and Larimer
Project Yield: 7,796 acre-feet
Project Type: Reservoir Rehabilitation

The Seven Lakes Reservoir Company (SLRC) and its sister company Greeley and Loveland Irrigation Company (GLIC), own and operate an extensive system of reservoirs and canals in the Loveland and

Greeley area. GLIC owns 4 reservoirs (including Lake Loveland and Boyd Lake) and SLRC owns 5 reservoirs (including Horseshoe Lake, immediately adjacent to Boyd Lake.). SLRC uses GLIC's Big Barnes Ditch to fill Horseshoe Reservoir. Water is carried in the Big Barnes Ditch and discharges into Lake Loveland at a decreed rate of 1000 cfs. SLRC desires to remove and replace an existing deteriorated 5-tunnel railroad crossing structure with a new bridge in order to safely move 1,000 cfs from the Big Thompson River through Lake Loveland to Horseshoe Reservoir, thus removing a serious bottleneck in the flow path of water. This project will install a new pre-fabricated railroad bridge based on BNSF Railroad design requirements. Construction will occur while the track remains in continuous service, with trains expected on a frequency of one about every six hours. Bridge support pilings will be driven during the time intervals when trains are not near the site, and pile caps constructed. Rails, ties and ballast can then be removed and the prefabricated bridge installed. The Company has experienced significant delays in getting contracts in-place to conduct the work with BNSF. UPDATE: The Company is considering the use of a tunnel bore in lieu of a bridge.

41 Duel and Snyder Improvement Company – Diversion Structure Rehabilitation

Authorization: Severance Tax Fund
Water Source: South Platte
Terms of Loan: $90,900@2.50% for 30 yrs.
County: Morgan
Project Yield: 4,950 acre-feet
Project Type: Diversion Rehabilitation

The Deuel and Snyder Improvement Company provides irrigation water to a 1,650 acre service area located in Morgan County. The Company operates a sand gate located on a South Platte River diversion structure. The sand gate is a vent section through the concrete rollover wall which is boarded up when the Company needs to divert water. Boards must be removed during the winter to allow excess sand (which builds up in front of the Company's diversion point) to wash down river. Currently, in order to remove boards and open the gate, a Company employee must walk several yards along the crest of the rollover wall to reach the sand gate. There is not a walkway or handrail for safety. Because this is a major safety concern for the Company, it evaluated alternatives to both improve the safety conditions for its employees and more efficiently operate the gate. The Company elected to replace the existing board gates with a new radial gate. However, after further evaluation from the contractor and engineer it was determined that the foundation of the entire diversion structure has been compromised over time due to long term erosion. Therefore, the Company is currently evaluating it options on how to address the foundation issue prior to commencing with any improvement above. The project costs could escalate considerable.

42 South Metro Water Supply Authority – Raw Water Delivery

Authorization: Construction Fund
Water Source: South Platte
Terms of Loan: $5,090,400@4.50% for 30 yrs.
County: Adams/Denver/etc.
Project Yield: 10,750 acre-feet
Project Type: Raw Water Delivery

South Metro Water Supply Authority (Authority) is made up of 13 independent water providers that serve communities in the southern area of metro Denver. Currently, the Authority members rely mainly on groundwater aquifers to supply the area's M&I needs. Because this source is nonrenewable, members have been working to identify new supplies of water and opportunities to share resources and infrastructure to reduce dependence on groundwater. The Authority intends to acquire capacity in the East Cherry Creek Valley Water and Sanitation District (ECCV) Northern Supply Pipeline as a means to convey renewable water supplies, recapture consumable return flows, and increase operational flexibility. The Pipeline is a 48-inch steel pipe that runs from Barr Lake to ECCV's service area (located to the east of Cherry Creek Reservoir). The capacity is 47 mgd. The Pipeline is a regional transmission line and will deliver water both to storage reservoirs and directly to Authority members who will then deliver the water through their distribution systems. The Authority is acquiring a total of 31.98 mgd of excess capacity from ECCV. The

four members seeking funding from the CWCB will be acquiring 6.55 mgd of this total capacity. Final purchase and operating agreements are still under negotiation.

43 Riverside Reservoir and Land Company – Riverside Reservoir Spillway Enlargement

Authorization: Severance Tax Fund
Water Source: South Platte River
Terms of Loan: $2,838,100@2.5% for 30 yrs.
County: Weld
Project Yield: 64,000 AF (200 new)
Project Type: Spillway

The Riverside Reservoir and Land Company owns and operates the 64,000 acre-foot capacity Riverside Dam and Reservoir, an inlet canal known as Riverside Ditch, and a river diversion structure located near the town of Kersey, Colorado. The Company diverts water from the South Platte River, approximately 10 miles downstream of Greeley, Colorado. It stores water primarily during winter months for irrigation releases during the following water season. The Company delivers irrigation water to approximately 50,000 acres. There is a restriction of ½ foot (200 AF of storage loss) due to the lack of a spillway per State Dam Safety. In order to prevent further storage restrictions, the Project includes constructing an emergency spillway. Construction is expected through the spring of 2011.

44 Riverside Ditch and Allen Extension Company – Ditch System Rehabilitation

Authorization: Construction Fund
Water Source: Arkansas River
Terms of Loan: $186,345@2.75% for 30 yrs.
County: Chaffee
Project Yield: 3,250 AF
Project Type: System Rehabilitation

The Riverside Ditch and Allen Extension Company, located near Buena Vista, owns and operates the Riverside Ditch that provides irrigation water to a 450 acre service area within Chaffee County. A significant portion of the Company's structures along the 125 year old canal are in need of repair or replacement. The Company intends to complete a number of phased improvements to the canal that include: repairs to the river diversion; lining of portions of the canal to reduce seepage; installation of canal monitoring using SCADA equipment; phreatophyte removal; repair/replacement of aging headgates; and installation of standardized flumes. The proposed improvements would benefit the shareholders by improving overall canal efficiency, thereby increasing the consistency of shareholder headgate deliveries. Improvements are expected to be completed by the spring of 2012. The Company is in the process of designing improvements and constructing seepage repair prior to the Arkansas river Efficiency Rules taking effect on January 1, 2011.

45 Parkville Water District – Cantebury Tunnel Repair

Authorization: Construction Fund
Water Source: East Fork Arkansas
Terms of Loan: $1,838,200@4.0% for 30 yrs.
County: Lake
Project Yield: 1.086 AF
Project Type: Tunnel Repair

The Parkville Water District provides municipal water for the Town of Leadville and surrounding areas. The District provides service to about 2300 taps. The Canterbury Tunnel has been a critical water supply source to the District for over 45 years. The Tunnel originally served as mine drainage; however, because it was of such good quality and reliability the District added it to its water supply system. About 15 years ago, the flow of water was significantly reduced due to a collapse in the tunnel. The District proposes to drill a new well to access the functioning part of the tunnel and pump the water to the District's distribution system. The Project design is nearly complete and construction is projected for the winter 2010.

46 Las Animas Consolidated Canal Company – Diversion Structure Rehabilitation

Authorization: Construction Fund
Water Source: Arkansas River
Terms of Loan: $77,265@2.75% for 30 yrs.
County: Bent
Project Yield: 26,000 AF
Project Type: Diversion Rehabilitation

The Las Animas Consolidated Canal Company provides irrigation water to approximately 5,600 acres near Las Animas, Colorado. The Canal Company, along with the Consolidated Extension Canal Company, operates the Las Animas ditch diversion dam, located on the Arkansas River approximately 11 miles east of La Junta and about 7 miles west of Las Animas. The diversion dam was constructed in the late 1800s and is at the end of its useful life. The purpose of this project is to complete emergency repairs to support the dam and to minimize further downstream erosion and deterioration of the diversion dam so that safe and reliable future operations of the structure can be ensured. The loan request is for 6% of the estimated $1,275,000 total cost of the project. The additional project funding will come from the Consolidated Extension Canal Company (through a CWCB loan) and from Xcel Energy (a large shareholder in both companies). The project has bid and construction will begin around mid November 2010 and work should be completed by March 15, 2011.

47 Consolidated Extension Canal Company – Diversion Structure Rehabilitation

Authorization: Construction Fund
Water Source: Arkansas River
Terms of Loan: $180,285@2.75% for 30 yrs.
County: Bent
Project Yield: 26,000 AF
Project Type: Diversion Rehabilitation

The Canal Company, along with the Las Animas Consolidated Canal Company, operates the Consolidated Ditch diversion dam, located on the Arkansas River approximately 11 miles east of La Junta and about 7 miles west of Las Animas. The diversion dam was constructed in the late 1800s and is at the end of its useful life. The purpose of this project is to complete emergency repairs to support the dam and to minimize further downstream erosion and deterioration of the diversion dam so that safe and reliable future operations of the structure can be ensured. The loan request is for 6% of the estimated $1,275,000 total cost of the project. The additional project funding will come from the Las Animas Consolidated Canal Company (through a CWCB loan) and from Xcel Energy (a large shareholder in both companies). The project has bid and construction will begin around mid November 2010 and work should be completed by March 15, 2011.

48 Huefano-Cucharas Irrigation Company – Cucharas Reservoir Rehabilitation

Authorization: Severance Tax Fund
Water Source: Cucharas River
Terms of Loan: $1,622,060@2.5% for 30 yrs.
County: Peublo/Huerfano
Project Yield: 7,500 AF (New)
Project Type: Reservoir Rehabilitation

The Huerfano-Cucharas Irrigation Company provides irrigation water to farmers in the Arkansas valley. The Company was organized in 1944 and currently has 47 shareholders. The Company owns and operates the Cucharas Reservoir, located east of Walsenburg. The dam is a 145-foot high rock fill dam that has undergone several enlargements since the original construction in 1914. The reservoir has a capacity of 35,395 acre-feet. A storage restriction has been in place since 1988 with a deadline of October 1, 2010, imposed by the SEO either to rehabilitate the existing dam, replace it with a new dam or a zero no-storage restriction will be imposed followed by an order to breach the dam and remove the hazard it represents. The Company plans to rehabilitate the existing dam to allow a reduced level (7,500 AF) of storage. The Project involves lowering the spillway, replacing outlet gates, installing a satellite monitoring system, and updating a

new Emergency Action Plan. Pending SEO plan approval, project construction might begin during the winter of 2010/11. The owners of the project have changed since the original authorization by the Board. The project is to be de-authorized and a new project presented to the Board at the November 2010 meeting based on the new owner's financials and project plan.

49 Farmers Highline Canal and Reservoir Co. – System Rehabilitation

Authorization: Construction Fund
Water Source: Clear Creek
Terms of Loan: $1,410,768@4.65% for 30 yrs.
County: Adams/Jefferson
Project Yield: 24,000 AF
Project Type: Reservoir Rehabilitation

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

Attachment 13

January 25-26, 2011 Board Meeting
Instream Flow and Natural Lake Level Program
Summary of Resolved Cases

The Board's ISF Rule 8i. states that:

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

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

(1) Case No. 1-05CW222 -- Application of Charles and Diane Morgan

The Board ratified this statement of opposition at its November 2005 meeting. The Board's main objective in filing the statement of opposition in this case was to ensure that the Applicants' change in use and plan for augmentation does not injure the Board's instream flow water right on North Clear Creek. Applicants' proposed change in use to include commercial, irrigation and other uses may result in an expansion of historic diversions. In addition, the proposed plan for augmentation may not replace depletions in the same amount, timing or location of use. Staff, in cooperation with the Attorney General's Office, has negotiated a settlement to ensure that the CWCB's instream flow water right will not be injured.

The Board holds the following instream flow water right that could have been injured by this application:

CWCB Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed	County
1-87CW273	North Clear Creek	1.5	12/11/87	Clear Creek	Gilpin

The CWCB and the Applicants have agreed to the entry of a decree that will prevent injury to the Board's ISF water right on North Clear Creek. The Applicants have agreed to the following terms and conditions:

- Applicants acknowledge that the CWCB's instream flow water right on North Clear Creek decreed in Case No. 5-87CW273 is senior to the Applicants' water rights. Diversions of Applicants' water rights are subject to curtailment at times when the flow of North Clear Creek is below 1.5 cfs or when Applicants' diversions would reduce the flows in North Clear Creek below 1.5 cfs.
- The recreational, fish and wildlife uses claimed for Upper and Lower Wideawake Reservoirs are limited to in-lake uses, and the only consumptive use for the reservoirs is evaporation, which is accounted for in the consumptive use Table included in Paragraph 25 of the decree.
- When the storage rights are out of priority, Applicants shall pass all inflow through the reservoirs and shall manually lower the elevation of the reservoirs monthly to release the amount of computed evaporation, or as otherwise directed by the Water Commissioner or Division Engineer. In the alternative, Applicants may make releases from one of the reservoirs to offset the out of priority evaporation losses at the augmented reservoir.

- When the Upper and Lower Wideawake Springs are out of priority, Applicant may not continue to divert for bottling, bathing or irrigation from those springs when there is less that 0.264 acre-feet of storage in Upper Wideawake Reservoir, and 1.3 acre-feet in Lower Wideawake Reservoir, for a total of 1.564 acre-feet in storage for augmentation purposes.

- Applicants shall install and maintain such measuring devices as may be required by the Division Engineer and Water Commissioner for administration of the new water rights and plan for augmentation decreed herein.

- The State Engineer shall curtail all out-of-priority diversions, the depletions from which are not so replaced as to prevent injury to vested senior water rights.

- The Court will retain jurisdiction on the question of injury to the vested rights of others for a period of five years after operation of the plan for augmentation decreed herein to augment bottling and bathing uses. The five year period shall commence on the date of filing and service of such Notice of operation of the plan for augmentation. Such Notice shall also be provided to the CWCB.

(2) & (3) Case Nos. 5-99CW194, 195 -- Applications of the Town of Eagle

The Board ratified the statements of opposition filed in these cases at its January 2000 meeting. The Board's main objective in filing these statements of opposition was to ensure that the Applicant's changes of water rights and plans for augmentation and exchange do not injure the Board's instream flow rights on Brush Creek, East Brush Creek and the Eagle River. Applicants' proposed changes in use from irrigation to augmentation, replacement and exchange uses may result in an expansion of historic use, and the proposed plan for augmentation and exchange may not replace depletions in the same amount, timing or location of use.

The Board holds the following instream flow water rights that could have been injured by this application:

CWCB Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed	County
5-W3625-77	Brush Creek	7/4	7/27/77	Eagle River	Eagle
5-W3627-77	East Brush Creek	12	7/27/77	Eagle River	Eagle
5-80CW124	Eagle River	130/50	3/17/80	Eagle River	Eagle
5-80CW126	Eagle River	110/45	3/17/80	Eagle River	Eagle

The CWCB and the Applicants have agreed to the entry of a decree that will prevent injury to the Board's ISF water rights on Brush Creek, East Brush Creek and the Eagle River. The Applicants have agreed to the following terms and conditions:

- The Town agrees that the CWCB holds instream flow water rights on Brush Creek, East Brush Creek and the Eagle River decreed by the Court in Case Nos. 5-W3625-77, 5-W3627-77, 5-

80CW124 and 5-80CW126, which rights were decreed prior to the filing of the application in this case.

– Under the Plan for Augmentation and Exchange decreed in this case, the Town shall curtail diversions made by exchange to the extent necessary to meet a valid call made by the CWCB for its instream flow rights described herein.

– In order to continue providing domestic water supply to its residents and customers during such times of a CWCB call, the Town may either:

- Divert water at the location of the Lower Water Treatment Plant Intakes 1 and 2 so long as out of priority depletions are fully replaced at the confluence of Brush Creek and the Eagle River; or,

- The Town may release water from Sylvan Lake as decreed in 5-92CW292, and then divert that amount less reasonable transit losses as determined by the Division Engineer at the decreed location of the Town's Eagle Gravity System, Second Enlargement, or the decreed location of the Towns' Lower Water Treatment Plant Intakes 1 & 2.

– A portion of the evaporation losses and releases from the Brush Creek Road Augmentation Pond will also be replaced allowing for the refill of the pond in this plan for augmentation.

-- Golf Course Pond A storage water may be released to Brush Creek in the event of a CWCB instream flow call on the Eagle River that occurs in the months of October through April only. Releases from this pond can be used to replace for depletions to the Eagle River if necessary.

– Applicant is seeking to change the use of the Upper Frost Ditch and OIF Ditch from irrigation to use for augmentation, replacement and exchange both directly and through storage in and later release from the Brush Creek Road Augmentation Pond. Applicant shall cease irrigation with the amounts of water changed herein for augmentation purposes immediately upon entry of this decree. Applicant shall release up to 5.71 af from Brush Creek Road Augmentation Pond and 14.4 af from sources tributary to the Colorado River to balance non-irrigation season depletions.

– Pursuant to C.R.S. 37-92-305(8), in administering the augmentation plan, the State Engineer shall curtail all out-of-priority diversions, the depletions from which are not so replaced as to prevent injury to vested water rights.

– Pursuant to C.R.S. 37-92-502(5), the Applicant shall install measuring devices provide accounting and supply calculations regarding the timing of depletions as required by the Division Engineer for the operation of this plan.

– The Court retains jurisdiction of this matter for reconsideration on the issue of injury to the vested water rights of others for a period commencing on the date the decree is entered and continuing for 5 calendar years following the date that 75% of the proposed units and commercial uses are constructed and using water. Applicant shall file notice with the Water Court and Objectors as to the date that such development level has been reached.

(4), (5) and (6) Case Nos. 5-01CW305A, 5-01CW305B and 5-02CW077 (part 1 0f 2 only)— Application of Basalt Water Conservancy District

The Board ratified the Statements of Opposition filed in these cases at its March and July 2002 meetings. The Court bifurcated these cases to evaluate potential impacts to different geographic areas of the watershed. The Board's main objective in filing these statements of opposition was to ensure that the Applicant's change of water right, plan for augmentation and exchange does not injure the Board's instream flow rights on the Roaring Fork River. The proposed change of the Basalt Conduit water right to alternate, upstream points of diversion may deplete instream flow rights on the Fryingpan and Roaring Fork Rivers. Additionally, the proposed augmentation and exchange may not replace depletions in amount, timing or location.

The Board holds the following instream flow water rights that could have been injured by this application:

CWCB Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed	County
5-85CW639	Roaring Fork River	145/75	11/18/1985	Roaring Fork	Pitkin, Eagle, Garfield
5-85CW646	Roaring Fork River	55/30	11/18/1985	Roaring Fork	Pitkin, Eagle
5-73W1945	Fryingpan River	110/39	7/12/1973	Roaring Fork	Pitkin, Eagle

The CWCB and the Applicant have agreed to the entry of a decree that will prevent injury to the Board's ISF water rights on the Roaring Fork River and Fryingpan River. Resolution of part 2 of Case No. 5-02CW077 is still pending.

The Applicants have agreed to the following terms and conditions in Case Nos. 5-01CW305A and 5-02CW077 (part 1 of 2 only):

- The District acknowledges that the Colorado Water Conservation Board has decrees as follows for the following instream flow water rights that are senior to the appropriative exchanges claimed by the District herein and were decreed prior to this augmentation plan and the changes of water rights approved herein:

    a. Fryingpan River: Case Nos. 73W1945,
    b. Roaring Fork River: Case Nos. 85CW639, 85CW646

- When these instream flow rights are unsatisfied below the point where depletions augmented under the decree in this case occur, and when the Colorado Division of Water Resources has recognized and enforced an administrative call placed by the Colorado Water Conservation Board enforcing its priority under these instream flow rights, the District shall curtail the depletions or diversions as necessary to prevent injury to these instream flow water rights from operation of this plan, or fully augment them directly at or above the point of depletion or diversion if necessary, with an upstream source as decreed in this augmentation plan or through an approved substitute water supply plan in an amount necessary to fully replace out of priority depletions, or diversions if necessary (both lagged and immediate). Nothing herein shall prevent the District from obtaining future legal approvals to add additional replacement supplies for use in replacing out of priority depletions, or diversions as necessary, for augmentation use within these decreed instream flow reaches.

- All water service provided by the District under the change of the Basalt Conduit water right described herein shall be limited to the amount of water available in priority at the original points of diversion, and the District, or those entitled to use the District's decrees, may not call on any greater amount at any new alternate point of diversion. The District shall account for all diversions under the Basalt Conduit water right under this plan for augmentation, any other District plan for augmentation approved by this Court, and also any plan for augmentation obtained by individuals and approved by this Court that includes the Basalt Conduit water right under contract with the District, in a manner acceptable to the Division of Water Resources as necessary to demonstrate compliance with this restriction.

- The District, or those entitled to use its decrees, may call on any additional sources of supply that may be available at an alternate point of diversion exercised under the subject change of water rights and subject exchanges, but not available at the original decreed point of diversion, only as against water rights which are junior to the date of the subject exchanges.

- Exercise of the alternate points of diversion at wells will require issuance of permits by the State Engineer pursuant to C.R.S. § 37-90-137(2). Totalizing flow meters shall be installed by each well user as a condition of diverting at the well, except for ponds or other structures that expose groundwater and which are administered as wells. All out-of-priority lagged depletions resulting from operation of the alternate points of diversion are intended to, and will, be replaced under this plan for augmentation.

The Applicants have agreed to the following terms and conditions in Case Nos. 5-01CW305B:

- The District acknowledges that the Colorado Water Conservation Board has decrees for instream flow water rights in the Roaring Fork River decreed in Case Nos. 85CW639 (extending from the confluence of the Roaring Fork and Fryingpan rivers to the confluence of the Roaring Fork and Crystal rivers) and 85CW646 (extending from the confluence of the Roaring Fork River and Maroon Creek to the confluence of the Roaring Fork and Fryingpan rivers) that are located within or below, and are senior to, the appropriative rights of exchange decreed herein and were decreed prior to this augmentation plan and the changes of water rights approved herein.

- When the instream flow rights decreed in **85CW639** are unsatisfied below the point where depletions augmented under the decree in this case occur, and when the Colorado Division of Water Resources has recognized and enforced an administrative call placed by the Colorado Water Conservation Board enforcing its priority under these instream flow rights, the District shall curtail the depletions or diversions as necessary to prevent injury to these instream flow water rights from operation of this plan, or fully augment them directly at or above the point of depletion or diversion if necessary, with an upstream source as decreed in this augmentation plan or through an approved substitute water supply plan in an amount necessary to fully replace out of priority depletions, or diversions if necessary (both lagged and immediate).

- At such times as the instream flow rights decreed in **85CW646** are unsatisfied below the point where depletions augmented under the decree in this case occur, and when the Colorado Division of Water Resources has recognized and enforced an administrative call placed by the Colorado Water Conservation Board enforcing its priority under these instream flow rights, the District shall curtail the depletions or diversions as necessary (both lagged and immediate) to prevent injury to the 85CW646 water rights from operation of this plan.

- Nothing herein shall prevent the District from obtaining future legal approvals to add additional replacement supplies for use in replacing out of priority depletions, or diversions as necessary, for augmentation use within these decreed instream flow reaches.

- All water service provided by the District under the change of the Basalt Conduit water right described herein shall be limited to the amount of water legally and physically available in priority at the original points of diversion, and the District, or those entitled to use the District's decrees, may not call on any greater amount at any new alternate point of diversion. The District shall account for all diversions under the Basalt Conduit water right under this plan for augmentation, any other District plan for augmentation approved by this Court, and also any plan for augmentation obtained by individuals and approved by this Court that includes the Basalt Conduit water right under contract with the District, in a manner acceptable to the Division of Water Resources as necessary to demonstrate compliance with this restriction.

- The District, or those entitled to use its decrees, may call on any additional sources of supply that may be available at an alternate point of diversion exercised under the subject change of water rights and subject exchanges, but not available at the original decreed point of diversion, only as against water rights which are junior to the date of the subject exchanges.

- Exercise of the alternate points of diversion at wells will require issuance of permits by the State Engineer pursuant to C.R.S. § 37-90-137(2). Totalizing flow meters shall be installed by each well user as a condition of diverting at the well, except for ponds or other structures that expose groundwater and which are administered as wells. All out-of-priority lagged depletions resulting from operation of the alternate points of diversion are intended to, and will, be replaced under this plan for augmentation.

(7) Case No. 5-07CW071 -- Application of Jessie and Donnis Coates

The Board ratified the Statement of Opposition filed in this case at its July 2007 meeting. The Board's main objective in filing the statement of opposition was to ensure that the Applicant's change of water right does not injure the Board's instream flow right on Carr Creek. Applicants' proposed change of point of diversion to two upstream alternate points may result in an expansion of use.

The Board holds the following instream flow water right that could have been injured by this application:

CWCB Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed	County
5-95CW288	Carr Creek	2/1/0.5	11/6/95	Roan Creek	Garfield

The CWCB and the Applicants have agreed to the entry of a decree that will prevent injury to the Board's ISF water right on Carr Creek. The Applicants have agreed to the following terms and conditions:

– Applicants acknowledge that the CWCB's holds an instream flow water right on Carr Creek decreed by the Court in Case No. 5-87CW273, which right was appropriated and decreed prior to the filing of the application in this case. Applicant agrees that diversions of its water rights are subject to curtailment at times when the flow on Carr Creek is below the decreed ISF amounts or when the Applicants' diversion would reduce the flow in Carr Creek below the decreed ISF amounts.

- The Applicants shall be limited to total combined diversion of the subject water rights at the alternate points of diversion to the maximum amount of 1.0 cfs. Such diversion may be made only to the extent that such water rights are physically and legally available at the original points of diversion and are diverted in priority.

- Regardless of the diversion point, Applicants shall be limited to the historically irrigated acreage depicted on the map attached to the proposed decree, and the historical irrigation return flows shall not be diminished.

- For administrative purposes, Applicants shall divert principally at Alternate Point No. 1 and secondarily at Alternate Point No. 2 when the subject water rights are physically and legally available at the original points of diversion and are diverted n priority.

- In the event the owners of the Aqua Ditch agree to rebuild the headgate and ditch, Applicants intend to use the Aqua Ditch as originally decreed, and all of the terms and conditions set forth in the decree shall also apply to diversions made at the Aqua Ditch, except Applicants shall divert principally at the headgate of the Aqua Ditch, and secondarily at the Alternate Points in the order listed in the decree.

- To facilitate administration of the decree, Applicants shall install adequate measuring structures acceptable to the Division Engineer on Carr Creek upstream of the Upper Roan Creek Ditch headgate, and on Roan Creek upstream of the Aqua Ditch headgate.

- The Court retains jurisdiction of this matter for reconsideration on the issue of injury to the vested water rights of others for a period commencing on the date the decree is entered and continuing for 5 years after the date Applicant has filed notice with the Division Engineer, the Court and parties hereto that adequate diversion and measurement structures have been installed, including bypass structures necessary to administer all these priorities at the diversion points.

(8) Case No. 5-07CW128 -- Application of The Ranch at Roaring Fork HOA, Richard J. Hunt and Shirley M. Hunt

The Board ratified the Statement of Opposition filed in this case at its September 2007 meeting. The Board's main objective in filing the statement of opposition was to ensure that the Applicant's change of water right and plan for augmentation and exchange do not injure the Board's instream flow right on the Roaring Fork River. Applicants' proposed change in use for the Patterson Jacobson Ditch from irrigation to storage and augmentation may result in an expansion of historic use, and the proposed plan for augmentation may not replace depletions in time, location or amount.

The Board holds the following instream flow water right that could have been injured by this application:

CWCB Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed	County
5-85CW639	Roaring Fork River	145/75	11/18/1985	Roaring Fork	Pitkin, Eagle, Garfield

The CWCB and the Applicants have agreed to the entry of a decree that will prevent injury to the Board's ISF water right on the Roaring Fork River. The Applicants have agreed to the following terms and conditions:

- Applicants acknowledge that the CWCB's holds an instream flow water right on the Roaring Fork River in Case No. 5-85CW639 to preserve the natural environment to a reasonable degree, which right was appropriated prior to the filing of the application in this case.

- This decree confirms that the evaporation occurring from Applicants' gravel pits is exempted by law from the requirements of augmentation since the gravel pits were constructed prior to January 1, 1981. This decree provides a plan for augmentation for out-of-priority evaporation from ditches and laterals crossing the ranch's property and flowing into the ponds/gravel pits. Applicant has withdrawn its claim for additional storage rights and the change in use for the Patterson Ditch water right.

- The CWCB Roaring Fork instream flow right is senior to the exchange decreed herein. Pursuant to section 37-92-102(3)(b), the CWCB and Applicant recognize that evaporation from 0.69 acres of the surface area evaporation being augmented in this plan was a use in existence at the time of the CWCB's appropriation of the 5-85CW639 instream flow water right. In the event that the CWCB makes a call for its water rights on the Roaring Fork River at any point located below the headgate of the Patterson Jacobson Ditch, the Applicant agrees that replacement water for no less than 91% of the depletions will come from sources upstream of the depletions. The subordination pursuant to 37-92-102(3)(b) of the instream flow right to the 0.69 acres of surface area evaporation being augmented herein shall not interfere with the administration of the replacement of out of priority depletions to other water rights and shall not result in general subordination to the decreed instream flow right to any other water rights junior to that instream flow right.

- While the instream flow right is subject to the Applicants' use of its senior water rights as identified in the decree, the augmentation plan and amount decreed herein will be administered subject to the prior appropriation system in relation to all other water rights.

- The Applicants shall install and maintain measuring devices, provide accounting, and supply calculations regarding the amount and timing of depletions as required by the Division Engineer for the operation of this plan.

- Pursuant to C.R.S. 37-92-305(8), the State Engineer shall curtail all out-of-priority diversions, the depletions from which are not so replaced as to prevent injury to vested water rights.

- The Court's approval of the plan of augmentation shall be subject to reconsideration by the Water Judge on the question of injury to the vested water rights of others for a period of two calendar years after the decree is entered. The plan has been operational since 2007 when the Applicants obtained a contract for water from the BWCD and the State Engineer's Office required replacement for the evaporative losses consistent with this decree.

(9) & (10) Case Nos. 2-09CW085, 086 -- Applications of Upper Arkansas WCD

The Board ratified the Statements of Opposition filed in these cases at its September 2009 meeting. The Board's main objective in filing the statements of opposition was to ensure that the Applicant's plan for augmentation and exchanges do not injure the Board's instream flow right on Grape Creek and Colony Creek. Applicant's proposed plan for augmentation and exchanges within their umbrella augmentation plan

may not be adequate to replace diversions and/or depletions in time, location and amount to prevent injury to the Board's instream flow water right.

The Board holds the following instream flow water rights that could have been injured by this application:

CWCB Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed	County
82CW142	Grape Creek	1	6/3/1982	Arkansas Headwaters	Custer
79CW132	South Colony Creek	4	3/14/1979	Arkansas Headwaters	Custer

These cases were scheduled for 3 weeks of trial in early 2012, and there were numerous objectors. In late November 2010, the applicant filed a motion with the court to voluntarily dismiss both pending applications. The Court granted applicant's motions and dismissed both cases without prejudice. The trial dates have been cancelled and both cases are now closed.

Attachment 14

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News Release

Salazar, Elvira Announce Water Agreement to Support Response to Mexicali Valley Earthquake

Leaders Lay Groundwork for Comprehensive U.S.-Mexico Water Agreement on Colorado River

12/20/2010

Contact: Kendra Barkoff (202) 208-6416

MEXICO CITY – U.S. Interior Secretary Ken Salazar and Mexican Environment and Natural Resources Secretary Juan Rafael Elvira Quesada today announced the successful completion of an agreement, known as 'Minute 318,' to adjust water deliveries on the Colorado River to areas damaged by a devastating earthquake on April 4, 2010.

Following their meeting in Mexico City, the Secretaries also announced a commitment by the two governments to initiate, in January 2011, high-priority discussions on a comprehensive long-term agreement between the U.S. and Mexico on the management of the Colorado River.

"Through this water agreement, the U.S., Mexico, and the seven Colorado River Basin states are bringing resources together for our mutual benefit and for the benefit of our neighbors whose irrigation systems and livelihoods have been damaged by the Easter Sunday earthquake," said Salazar, who is in Mexico City to discuss water, conservation, and natural resource issues with President Calderon and Mexican government officials. "Minute 318 is a remarkable achievement from a humanitarian perspective, but it also lays important groundwork for a much-needed comprehensive water agreement with Mexico on how we manage the Colorado River."

"Water users and stakeholders up and down the Colorado River have a strong interest in a comprehensive water agreement that would enhance reliability, certainty, and efficiency of water deliveries," said Bureau of Reclamation Commissioner Michael Connor, who coordinated with the seven Colorado River Basin States and the International Boundary and Water Commission to reach the Minute 318 agreement. "The good faith negotiations that resulted in Minute 318 will help pave the way toward the comprehensive agreement for Colorado River management that is so needed on both sides of the border."

Attachment 14

Secretary Salazar and Secretary Elvira commended the work by the U.S. and Mexican Commissioners of the International Boundary and Water Commission (IBWC), Edward Drusina and Roberto Salmon, who led their respective nation's negotiation teams for Minute 318.

Under Minute 318, Mexico will be able to temporarily defer delivery of a portion of its annual Colorado River water allotment while repairs are made to the irrigation system in the Mexicali Valley of Baja California as a result of an April 4, 2010 earthquake. This agreement is founded on the 1944 Water Treaty between the U.S. and Mexico.

Under the 1944 Water Treaty between the United States and Mexico, Mexico is allotted a guaranteed quantity of Colorado River Water each year. Absent surplus or extraordinary drought conditions, Mexico's annual allotment is 1.5 million acre-feet (maf).

Minute 318 allows Mexico to defer delivery of up to 260,000 acre-feet of its annual allotment through December 31, 2013. Beginning in 2014, Mexico could begin recovery of the amounts of Colorado River water deferred during the three-year period, subject to the progress of reconstruction of the Mexican irrigation system and the status of Colorado River reservoirs.

In their meeting today, Secretaries Salazar and Elvira, Commissioner of Reclamation Connor, Director General of the Mexican National Water Commission Jose Luis Luege Tamargo, and IBWC Commissioners Drusina and Salmon discussed the need for a comprehensive agreement on Colorado River water management issues, particularly in light of ongoing drought conditions and the prospect of continuing declines in reservoir levels.

Secretaries Salazar and Elvira identified the negotiations on a comprehensive agreement as a top priority for 2011. The leaders said they would direct their representatives to begin negotiations of the comprehensive water agreement in January, 2011.

Commissioner Connor noted that a comprehensive agreement is of particular importance in light of ongoing, historic drought in the Colorado River Basin:

- Since 2000, Colorado River basin reservoirs have dropped from nearly full to approximately 55% of total storage.
- Lake Mead currently stands at 39% of capacity, lower than it has been since it was filling in the 1930s.
- The last 11 years have been the driest in a century of recorded history, and among the driest 1% of periods in over 1,000 years.
- Current projections show that if current drought conditions persist, the Lower Basin (Arizona, California and Nevada) may be subject to the first-ever domestic shortage declaration on the Colorado River as early as 2012; the likelihood of shortage conditions by 2014 is approximately 35%.

To read Secretary Salazar's statement, click here.

# # #

INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES AND MEXICO.

El Paso, Texas
December 17, 2010

Minute No. 318

ADJUSTMENT OF DELIVERY SCHEDULES FOR WATER ALLOTTED TO MEXICO FOR THE YEARS 2010 THROUGH 2013 AS A RESULT OF INFRASTRUCTURE DAMAGE IN IRRIGATION DISTRICT 014, RIO COLORADO, CAUSED BY THE APRIL 2010 EARTHQUAKE IN THE MEXICALI VALLEY, BAJA CALIFORNIA

The Commission met at the offices of the United States Section in El Paso, Texas at 10:00 a.m. on December 17, 2010 to discuss adjusting the schedules for deliveries of Colorado River water to Mexico for the period from 2010 through 2013 because of infrastructure damage in Irrigation District 014, Rio Colorado, caused by the April 2010 earthquake in the Mexicali Valley, Baja California.

The Mexican Commissioner reported that during the aforementioned earthquake, serious damage occurred to the distribution network of Irrigation District 014, Rio Colorado, covering a length of 398 miles (640 km) of the canal system, while approximately 148,000 acres (60,000 hectares) of land were impacted to some degree; consequently, Mexico is having difficulties receiving through its hydro-agricultural infrastructure its full annual allotment under the "United States-Mexico Treaty on Utilization of Waters of the Colorado and Tijuana Rivers and of the Rio Grande," signed February 3, 1944 (hereinafter the 1944 Water Treaty).

The Mexican Commissioner then referred to his government's instructions to explore through the Commission the option of adjusting the delivery schedules for Colorado River water, recognizing the volumes of water that Mexico cannot utilize for the period from 2010 through 2013 due to the aforementioned damage, and the desirability that such volumes be delivered at a time when Mexico can utilize them, according to the progress achieved in the reconstruction of the damaged infrastructure. In this context, he stated that an estimated volume of 260,000 acre-feet (320 million cubic meters [mcm]) could not be utilized in 2010 through 2013.

The U.S. Commissioner noted that the appropriate authorities in his country were made aware of the damage that the Irrigation District 014 infrastructure suffered during the April 2010 earthquake, and they have expressed their willingness to support Mexico by making it possible for Mexico to adjust the schedule of water deliveries from its annual allotment during the period from 2010 through 2013 in light of the problems arising from the aforesaid damages.

The Commissioners noted that in the preamble to the 1944 Water Treaty, both countries made clear their desire to "obtain the most complete and satisfactory utilization" of the waters of the Colorado River. They also observed that the 1944 Water Treaty

includes in Article 15F a mechanism for the increase or decrease in scheduled water deliveries, in accordance with the terms of that provision. The Commissioners noted that the Resolutions set forth in this Minute will assist the United States and Mexico in their efforts to obtain the most complete and satisfactory utilization of the waters of the Colorado River and thereby contribute to the fulfillment of the objectives of the 1944 Water Treaty.

The Commissioners further noted the discussions currently being carried out under the framework of Commission Minute No. 317, dated June 17, 2010, entitled "Conceptual Framework for U.S.-Mexico Discussions on Colorado River Cooperative Actions," and they observed that in this context, cooperative actions on the Colorado River are being discussed that minimize the impacts of potential Colorado River shortage conditions; generate additional volumes of water using new sources by investing in infrastructure such as desalinization facilities; conserve water through investments in a variety of current and potential uses, including agriculture, among others; and envision the possibility of permitting Mexico to use U.S. infrastructure to store water. These cooperative actions are intended to benefit both countries and help them address and adapt to future water supply challenges in the Colorado River Basin, including the potential long-term, adverse impacts of climate change.

In this context, the Commissioners observed, consistent with the spirit of cooperation reflected in the 1944 Water Treaty as well as Minute No. 317, the appropriateness of providing for adjustment of the delivery schedules for waters allotted to Mexico during the period from 2010 through 2013 in order to address immediately the problems arising from the earthquake damage to Mexico's irrigation infrastructure, taking into account evaporation losses associated with this change in delivery schedules and the potential impact on the salinity differential between Imperial Dam and the Northerly International Boundary, described in Resolution 1. a) of Minute No. 242, "Permanent and Definitive Solution to the International Problem of the Salinity of the Colorado River," dated August 30, 1973, while continuing in the meantime the discussions that are currently underway through the Commission regarding cooperative opportunities on the Colorado River and their implementation in the framework of Minute No. 317.

Based on the above, the Commissioners submit the following resolutions for the approval of both Governments:

1. Taking into account the infrastructure damage caused by the April 2010 earthquake in the Mexicali Valley, Baja California, and with the objective of ensuring that, during the period from 2010 through 2013, only those volumes of water that Mexico can utilize are scheduled for delivery during said period, at Mexico's request, the schedule for the annual delivery to Mexico of its allotment

pursuant to Article 10(a) of the 1944 Water Treaty may be adjusted downward as follows: from the date this Minute shall enter into force through December 31, 2013, by a maximum of 260,000 acre-feet (320 mcm).

2. Any request for a downward adjustment for the years 2010 through 2013, as provided in Resolution 1 above, shall be communicated by the Mexican Commissioner through a timely notification to the U.S. Commissioner, by means of a letter indicating the volumes affected by this change in delivery schedule and the months to which said volumes correspond.

3. Taking into account evaporation losses associated with the adjustment in the delivery schedule, beginning in 2011, on December 31 of any year in which the volumes referred to in Resolution 2 above or any portion thereof have not yet been delivered to Mexico, a 3% annual evaporation loss shall be charged against and deducted from those volumes remaining to be delivered. This percentage will not be applied to any year in which the volumes referenced in Resolution 2 of this Minute cannot be delivered to Mexico because of operational issues in the United States.

4. Taking into account the potential impact that the adjustment in the schedule for delivering water to Mexico for the period from 2010 through 2013 may have on the salinity differential between Imperial Dam and the Northerly International Boundary described in Resolution 1. a) of Minute No. 242, "Permanent and Definitive Solution to the International Problem of the Salinity of the Colorado River," dated August 30, 1973, the aforementioned salinity differential will be calculated as if the volume of water referred to in Resolution 2 above were delivered from Imperial Dam to the Northerly International Boundary, consistent with the Water Deliveries Monitoring adopted in the Amended Joint Report of the Principal Engineers associated with Minute No. 314, "Extension of the Temporary Emergency Delivery of Colorado River Water for Use in Tijuana, Baja California," dated November 14, 2008. The adjustments to the delivery schedule will be made, insofar as practicable, in such a way as to minimize the impact on salinity at the Northerly International Boundary, recognizing that Mexico and the non-governmental organizations may convey water through the Wellton-Mohawk Bypass Drain to the Santa Clara Wetland under Minute No. 316, "Utilization of the Wellton-Mohawk Bypass Drain and Necessary Infrastructure in the United States for the Conveyance of Water by Mexico and Non-Governmental Organizations of Both Countries to the Santa Clara Wetland During the Yuma Desalting Plant Pilot Run," dated April 16, 2010, which action would have a favorable impact on salinity at the Northerly International Boundary.

5. The limitations as to the rates of deliveries specified in Article 15 of the 1944 Water Treaty continue to apply.

6. The United States shall be deemed to have fulfilled its delivery obligations under the 1944 Water Treaty for 2010 through 2013, notwithstanding any adjustment of delivery schedules pursuant to this Minute.

7. Under the framework of Minute No. 317, entitled "Conceptual Framework for U.S.-Mexico Discussions on Colorado River Cooperative Actions," dated June 17, 2010, discussions shall continue for joint cooperative actions on the Colorado River that could benefit both countries. Particularly recognizing the need to minimize the impact of potential shortage conditions in the Colorado River Basin and in light of the growing recognition of the potential adverse impacts of climate change, the United States and Mexico recognize that it is critical to both countries' interests to move forward with efforts to minimize the aforementioned impacts, as was established in Minute No. 317.

8. Volumes referred to in Resolution 2 above will be delivered to Mexico starting in 2014, subject to reconsideration depending on the progress of Mexico's reconstruction efforts, and in light of the cooperative opportunities that may be identified in the context of Resolution 10 of this Minute. Said water delivery will be made within the delivery schedules contained in Article 15 of the 1944 Water Treaty, will not exceed a total annual delivery volume of 1.7 million acre-feet (2097 mcm), and will not exceed the salinity limits set forth in Minute No. 242. To take delivery, the Mexican Commissioner will submit a request for the corresponding delivery to the U.S. Commissioner, indicating the volumes to be delivered and the months to which said volumes correspond, at least six months prior to the first delivery of said volumes of water. The U.S. Commissioner, upon receipt of the request, is responsible for reviewing the Colorado River System's status and approving the order subject to operational issues identified in the review of the Colorado River System's status, taking into consideration the desire of both countries to schedule delivery of this water in such a fashion so as not to trigger or exacerbate any potential shortage conditions in the United States.

9. The provisions of this Minute shall not be regarded as a precedent for future delivery of Colorado River water in addition to that allotted to Mexico annually under Article 10 of the 1944 Water Treaty, nor for future salinity management via the mechanism described in Resolution 4 above.

10. The ongoing discussions pursuant to Minute No. 317 as referenced in Resolution 7 above may consider other joint cooperative actions related to delivery of the

volumes referred to in Resolution 2 above, taking into consideration potential benefits to both countries and the progress achieved in the reconstruction of the damaged infrastructure in Mexico.

11. Delivery of the water pursuant to Resolution 8 above does not preclude implementing, if conditions so warrant, the provisions of Article 10(b) of the 1944 Water Treaty regarding reduction of water allotted to Mexico under Article 10(a) of the Treaty.

12. This Minute shall enter into force upon notification of approval by the Government of the United States of America and the Government of the United Mexican States through the respective Section of the Commission.

The meeting was adjourned.

Edward Drusina, P.E.
United States Commissioner

Roberto F. Salmón Castelo
Mexican Commissioner

Adolfo Mata
United States Section Secretary

José de Jesús Luevano Grano
Mexican Section Secretary

Prepared for Dec. 29, 2010 meeting with EPA Region 8 Director, Jim Martin,
Re the Paradox Salinity Control Unit located in western Montrose County.

Paradox Valley Unit, Colorado [from 2010 Fed. Accomplishments Report, Oct. 2010]

This project intercepts extremely saline brine (260,000 mg/l total dissolved solids, [~ 93% NaCl]) before it reaches the Dolores River and disposes of the brine by deep well injection (injection interval about 14,000 feet below ground surface). Seismicity associated with the injection process has diminished since the injection rate reduction in FY 2000 and remains at a low frequency and magnitude.

The project continues to intercept and dispose of 100,000+ tons of salt annually, but the pressure necessary to inject the brine into the disposal formation at 14,000 feet is increasing. Modification of the facility to operate at a higher injection pressure to extend the life of the current injection well was completed in 2009. Reclamation has initiated a Plan of Study to investigate the feasibility of other salt reduction alternatives to augment the project, including a second injection well. As part of the Plan of Study, an investigation of alternative salinity control methods was completed in June, 2008. The results of the investigation indicated a need for a current characterization of the regional groundwater flow to determine the appropriate strategy for future salinity control efforts. An interagency agreement was initiated with the USGS to conduct a hydro geologic study, and investigations for Phase I of the study began in the second quarter of FY 2009. Phase I was essentially completed in the third quarter of

FY 2010, resulting in a preliminary conceptual flow model of groundwater flow in the stream-aquifer system in the Paradox Valley. The preliminary conceptual flow model indicates that alternatives to reduce the amount of brine being produced, identified in the 2008 investigation, may not be feasible. Some additional work is necessary to verify the results of Phase I. If the Phase I results are verified, Phase II of the study may not be implemented.

I. Current Operations:
   Brine disposal - two 160 day cycles/yr, inject rate of 230 gpm = 0.5 cfs = 320 AF/yr
   Approx. 110,000 tons/yr salt control, ~ 20% of total existing CRBSC Program
   Estimate 40-50,000 tons/yr still enter Dolores River in this reach
   Power intensive, O&M cost $2.9 mill./yr [states pay 25% = $0.7 mill./yr]
   Pressure rise during each cycle = 3800 psi, 1200 psi start, 5000 psi end.

II. Existing permit/approvals:
   NEPA-EIS-
      USBR Definite Plan Report, 1978 –
         Assumed 5 cfs of brine disposal necessary
         Preferred option was 3,700 acre off-site evaporation reservoir [Radium]
      USBR FEIS, 1979 -
         EPA requested further evaluation of deep well option,
      USBR Final Supp. Def. Plan Report & FES, 1997 –
         Reconfigured and opted to use deep well disposal. Believe this included plan for 2nd well.

EPA issued UIC
has expired, renewal in process, recently revised to allow 350 psi well head pressure increase to extend life of well.

III. Need for new disposal options:
Increasing well head pressures indicate formation resistance, also monitoring seismic activity.
Estimated life as of 2008 was 10-20 years on first injection well due to formation capacity and some casing issues
Significant amount [~30%] of salt still entering river due to limited capacity on injection well.
Energy intensive process

IV. Status of current studies:
Franson 2008 Summary Report, screened options for reducing and/or disposing of brine.
USGS, 2010-11, Hydrogeology, looked at groundwater system to assess limiting recharge to brine formation zones, and identified brine/freshwater interface. Significant costs for data acquisition if digital groundwater model necessary.
USBR, 2011, developing Plan of Study for implementation plan to replace existing injection well.

V. In particular we would like to discuss permitting and NEPA issues related to new brine disposal options focusing on:

A. Second injection well:
Is new/updated EIS/EA needed?
Emergency approval if existing well fails catastrophically?

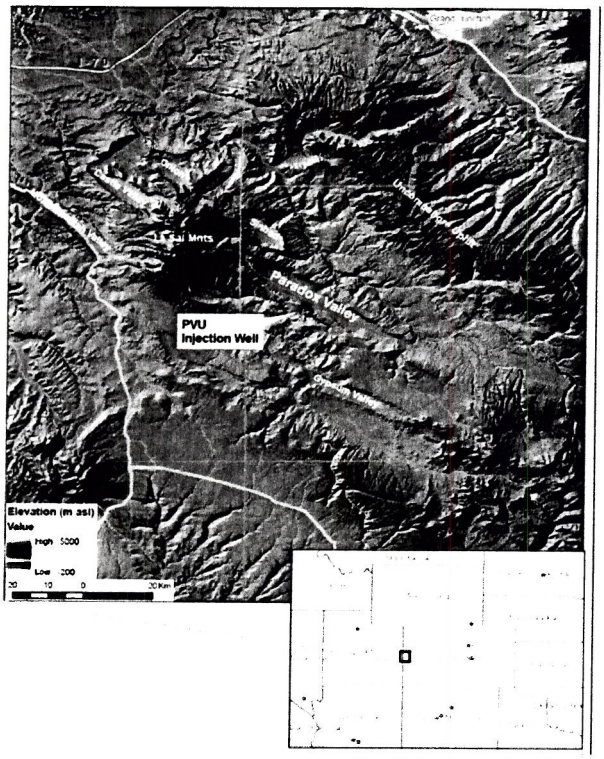
B. Evaporation pond option:
Much smaller than 1978 proposed Radium Reservoir
Est. 3-4 AF/yr evaporation, with 320 AF/yr brine = 80-100 surface acres
Solid waste disposal – on-site in closed cells or trucked off-site?
BLM land in East Paradox Valley
Expedited permitting for small scale demonstration/pilot project? [10-20 acres?]
Existing evaporation ponds at Intrepid Potash, near Moab: use 400 acres of ponds to produce 1000 ton/day potash
Explore Zero liquid discharge [zld] technologies?

C. Industrial use:
Forum 1980 Policy encouraging states and USBR to facilitate where environmentally and economically feasible
Pinon Ridge Mill, East Paradox Valley, process water or as contracted disposer?

RA Briefing on Paradox Injection Well, Montrose County, Colorado
Wednesday, December 29, 2010

Background

The US Bureau of Reclamation (USBR), Paradox Valley Unit (PVU) is one of nine units comprising the Colorado River Basin Salinity Control Project. The PVU is located along the Dolores River at the southern edge of the Paradox Valley in Montrose County, Colorado, about 60 miles southwest of Grand Junction. Shallow groundwater dissolves the salt dome underlying the Paradox Valley and flows into the Dolores River, a tributary to the Colorado River.



The Paradox Unit intercepts the brine–laden groundwater before it enters the Dolores River, and disposes of the brine by deep well injection. Major components of the PVU include:

- a brine production well field,
- a brine treatment facility,
- an injection facility,
- a 15,932 feet deep injection well, and
- a seismic monitoring network installed prior to completion of the injection well to obtain background seismic activity and to monitor activity that would occur as a result of brine injection.

Under normal operation, the PVU averages the injection of about 10 to 10.5 million gallons of brine per month. This results in the disposal of about 10.2 to 10.6 thousand tons of salt per month or up to about 112 thousand

The Paradox Unit removes 112,000 tons of salt per year, for a total capital cost of $67,400,000 and an annual O&M cost of $2,800,000--for a cost of $71 per ton.

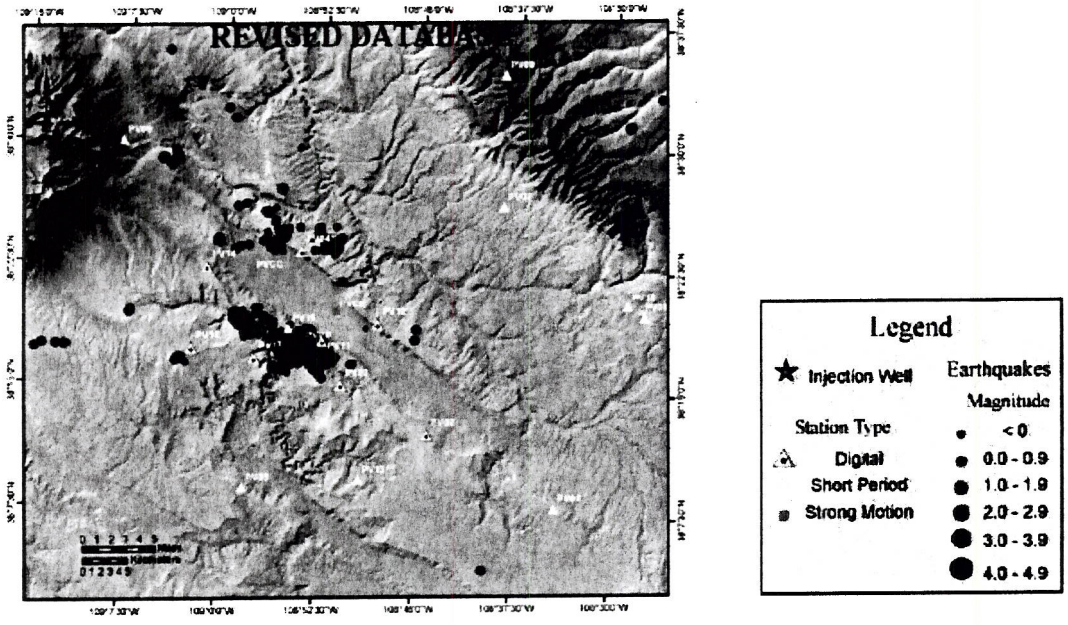
Paradox Valley Injection Well No. 1 History

The Paradox Unit was authorized for investigation and construction by the Salinity Control Act (Public Law 93-320) of 1974.

- July 13, 1986 – First UIC permit effective date.
- November 1986 through December 1988 – Well construction, completed at a depth of 15,932 feet.
- July 1996. - Continuous injection began.
- March 19, 1997 - Second UIC permit was issued.
- February 13, 2004 - USBR requested a permit modification to increase surface injection pressure from 5000 psi to 5350 psi.
- April 29, 2004 - EPA issued a permit modification requiring inspection and recertification of injection pumps, lines, and wellhead before initiating injection at 5350 psi.
- February 23, 2010 - USBR submitted documentation demonstrating the modification requirements were addressed.
- May 10, 2010 – EPA issued authorization to inject at increased surface injection pressure of 5,350 psi.
- January 2011 - Third daft permit issuance.

Seismic Events

Injection induced earthquakes occur in two seismic source zones: a primary zone surrounding the injection well and a smaller secondary zone centered about 4.7 miles northwest of the injection well. The secondary zone lies along the trend of a local major fault system. USBR submits a seismic monitoring report to EPA each year in June.



Concerns about the Current Injection Well

The functional lifespan of the current injection well was projected to 2020, but there are concerns that the lifespan may be shorter.

Well bore surveys conducted in June 2001 detected deformation of the well at a depth of about 14,000 feet below ground surface. The deformation was probably caused by ground movement associated with seismic events.

Since injection operations began, the surface pressure necessary to inject the brine into fractures has increased as a result of the injectate filling the available fractures and natural porosity of the injection interval formation. As the fluid migration extends away from the wellbore, the pressure necessary to push the fluid farther through the natural formation fractures increases.

Next Steps

USBR is now investigating the costs and regulatory requirements for future brine disposal alternatives: evaporation ponds and a second deep injection well. USBR has contacted the Region 8 UIC program, inquiring about the logistics of issuing a permit for a second deep injection well.

United States Department of the Interior

BUREAU OF RECLAMATION
Upper Colorado Region
Western Colorado Area Office
2764 Compass Drive, Suite 106
Grand Junction, CO 81506

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OCT 15 2010

RECEIVED
OCT 18 2010
Colorado Water Conservation Board

Ms. Jennifer Gimbel
Director, Colorado Water Conservation Board
1313 Sherman Street, Room 721
Denver CO 80203

Subject: Selenium Management Program

Dear Ms. Gimbel:

Congratulations and thank you for your support of the Memorandum of Understanding on the Gunnison Basin Selenium Management Program (MOU). Attached for your use is the executed copy of the MOU. Your continued work and support to develop the program is very much appreciated.

Since our agencies' managers met in Montrose in May, progress has been made in developing the selenium management program while at the same time we are continuing and accelerating on-the-ground activities to reduce salinity and associated selenium loading to the river system. Recent activities include:

- A new Funding Opportunity Announcement (FOA) for Reclamation's Basinwide Salinity Control Program has been released and work, including salt load allocation and mapping, commenced in preparation of this.
- A comprehensive salinity control study for the Lower Gunnison Basin is being considered that could parallel and greatly enhance selenium control planning.
- Coordination and funding of research and data collection headed by the USGS continues. Baseline information, trend data, and land use data/analyses are under development. Work continues on identifying priority selenium loading areas. Water quality monitoring continues and a new monitoring site was established at the mouth of the North Fork.
- Activity for the East Side Delivery System Optimization Planning continued and included work by Cal Poly to plan more efficient systems and work by Reclamation and others to locate and map irrigation features on the east side of the Uncompahgre Project. Mapping on other areas of the basin also continued.
- Work is underway with the Biology Committee of the Upper Colorado River Recovery Program to coordinate monitoring in the Gunnison and Colorado rivers and to coordinate fish tissue sampling for selenium.
- Design and construction work continued on Phases 3 & 4 within the Uncompahgre Project area which involves piping approximately 22 miles of existing laterals on the east side of the Uncompahgre Valley.

At our May meeting, we planned to meet again on November 3rd in Montrose. We would like to delay that meeting to early next year. At this time progress is being made and we do not see any significant decisions needed by the management team. We will contact you later to select a specific date. This will allow our staffs to concentrate on the FOA, comprehensive planning, and the activities of our staffs to develop the selenium plan.

If you have any questions on this update or suggestions for the program, please contact Steve McCall at 970-248-0638.

Sincerely

Carol DeAngelis
Area Manager

Enclosure

cc: Mr. Steve Miller
Colorado Water Conservation Board
1313 Sherman Street, Room 721
Denver CO 80203

Memorandum of Understanding
Concerning Development of a Selenium Management Program

The United States of America, Bureau of Reclamation ("Reclamation"); Fish and Wildlife Service ("FWS"); Bureau of Land Management ("BLM"); Natural Resource Conservation Service ("NRCS"); the Colorado Water Conservation Board; Colorado River Water Conservation District ("Colorado River District"); Upper Gunnison River Water Conservancy District; and the Uncompahgre Valley Water Users Association ("UVWUA"), (collectively referred to herein as the "Parties"), hereby enter this Memorandum of Understanding (MOU) regarding the development of a Selenium Management Program

RECITALS

A. The Parties desire to facilitate the development of a cooperative Selenium Management Program ("SMP") in a manner consistent with the conservation measure contemplated by the 2009 Gunnison River Basin Programmatic Biological Opinion ("PBO").

B. The Fish and Wildlife Service (Service) describes the selenium issue in the PBO as follows: *"The ongoing operation of irrigation projects and other water uses in the basin will continue to contribute selenium to the Gunnison and Colorado Rivers at levels that adversely affect the endangered fishes and their designated critical habitat and are inhibiting the survival and recovery of the endangered fishes. Reclamation will develop and implement a Selenium Management Program (SMP), in cooperation with the State of Colorado and Gunnison River basin water users to reduce adverse effects of selenium on endangered fish species in the Gunnison and Colorado rivers (see Effects of the Proposed Action section). The SMP will incorporate and accelerate ongoing selenium reduction efforts in the Uncompahgre Valley and other areas of the Gunnison Basin and will add several new elements. The overall long-term goal of the program is to assist in species recovery per the Recovery Goals. The SMP will use the best available scientific information for all elements of the program. Elements of the SMP will include:*

- *Accelerated implementation of salinity/selenium control projects for irrigated agriculture*
- *Reduction of other non-point source selenium loading*
- *Technology development*
- *Water quality monitoring*
- *Monitoring of endangered fish populations*
- *Coordination with lower Gunnison River Basin watershed management plan*
- *Regulatory support*
- *Public information and education*
- *Adaptive management*
- *Institutional support"*

C. Under Section 2 (c) (2) of the Endangered Species Act (ESA), "the policy of Congress is that Federal agencies shall cooperate with State and local agencies to resolve water resource issues in concert with conservation of endangered species." The ESA does not infer any additional statutory authority on Federal agencies, but rather directs them to exercise existing authorities to conserve listed species. In addition, the National Environmental Policy Act of 1969 encourages cooperation of different levels of government in protecting and improving the environment.

D. The Parties anticipate that many of the projects that control selenium loading associated with irrigation will be accomplished in cooperation with the Colorado River Basin Salinity Control Program (CRBSCP), the NRCS Environmental Quality Incentives Program (EQIP), and other water quality programs.

Now therefore, in recognition of the following mutual consideration, the Parties hereby agree as follows:

1. All provisions of this MOU are subject to the applicable authority of each Party, the annual appropriation of funds, and each Party's respective direction to its staff as that may change from time to time.

2. The Parties agree to cooperate in the development of a Selenium Management Program Formulation Plan ("Formulation Plan") which will further define the cooperative SMP. A workgroup appointed by the Parties will develop the Formulation Plan in order to document SMP alternative projects and define potential funding and other resources necessary to implement the SMP. Funding alternatives may include commitments by the Parties. The Formulation Plan will:

   a. Assist the Parties in the identification of specific cost effective selenium reduction measures and high priority implementation locations.

   b. Assist the Parties in the development of implementation schedules, benchmarks, cooperating entities, monitoring needs, including coordination with Recovery Program activities.

3. In furtherance of the development of the SMP and Formulation Plan, the Parties further agree:

   a. To actively participate in public outreach activities in their area of expertise or authority (including, but not limited to, the explanation of related federal and private actions covered by the PBO, the benefits of selenium control, potential solutions to selenium loading, and related information).

   b. Provide personnel and contribute funding on a voluntary basis toward the development of the Formulation Plan.

c. Provide timely input, data, and review of information developed for the Formulation Plan.

d. Participate in the Work Group to cooperatively develop and evaluate remediation options.

e. Provide technical assistance as needed to develop and review alternatives and assist in selecting the Formulation Plan.

f. Promote SMP objectives and Best Management Practices for selenium control to the extent possible.

4. The Parties agree to the individual commitments outlined below. It is recognized that additional tasks and resource commitments may develop on a voluntary basis during the development of the Formulation Plan

a. Reclamation will:
- Serve as the lead facilitator in developing the Formulation Plan, coordinate activities of the Work Group and subcommittees, and provide periodic updates to the Service and interested parties.
- Provide technical assistance as needed to develop and review alternatives and assist in selection of preferred alternatives for the Formulation Plan.
- Request adequate annual federal funding for the SMP (subject to and potentially limited by appropriations and authorities).
- Cooperate in advanced planning to outline future CRBSCP proposals involving larger scale implementation projects (e.g., lateral piping and canal lining projects and comprehensive planning activities) to optimize selenium load reductions.
- Utilize its Science and Technology Program, to the extent possible, to explore new technologies to reduce selenium loading and to remediate selenium impacted waters.

b. The Colorado Water Conservation Board will:
- Provide potential funding opportunities through appropriate budget appropriations and competitive grant programs.
- Coordinate and promote integrated planning with other state agencies and with the CRBSCP Forum.
- Coordinate with the Gunnison Basin Round Table on potential use of funds to assist local governments and agencies in studies to better define their roles in meeting SMP objectives.

c. The Colorado River District will:
- Continue to cooperate with the USGS, Reclamation, and the Work Group on selenium concentration, flow monitoring, and scientific studies that refine the understanding of fate, transport, trends, and loading of selenium to the Lower Gunnison River.

- Continue to cooperatively assist in funding and managing the Selenium Task Force activities commensurate to, and along with other participants and subject to budget and Board directed priorities.
- Provide potential funding opportunities to entities that contribute to selenium control through budget appropriations and competitive grant programs as available and appropriate.

d. The UVWUA will:
- Participate in the Work Group to evaluate remediation options that involve its facilities and actions.
- Pursue appropriate grant funding proposals for water delivery system improvements that reduce selenium loading.
- Continue to implement ongoing funded projects under the CRBSCP.
- Continue to pursue CRBSCP funding opportunities for additional salinity control through water delivery system improvements.

e. The FWS will:
- Participate in the Work Group to provide expertise on the biological effects of selenium on aquatic organisms.
- Assist in monitoring fish populations and selenium levels in fish tissue and organs in the lower Gunnison River in cooperation with the Upper Colorado River Recovery Program and provide appropriate biological data as called for in the PBO.

f. The BLM will:
- Evaluate options to conform to a goal of "no net new selenium loading" from land exchanges, sales, and other actions involving public lands.

g. The NRCS will:
- Provide incentives to private landowners to implement conservation practices to address water quality concerns, within legislated authorities, funding, and workload priorities.
- Assist with appropriate technical and financial support and technical standards for on-farm conservation practice implementation for NRCS assisted projects that may reduce selenium.
- Provide support and assistance to the Work Group in planning the SMP within the context of the potential for on-farm irrigation improvement options and opportunities.

h. The Upper Gunnison River Water Conservancy District will:
- Provide timely input, data, and review of information developed as appropriate and help support the Selenium Work Group.

5. Following development of the Formulation Plan, the Parties may participate as appropriate in the implementation of the SMP according to the Formulation Plan within legislated authorities, annual appropriation and funding allocations. The Parties understand that

additional agreements may be needed to define roles and responsibilities related to SMP implementation.

6. The MOU shall remain in effect until completion of the Formulation Plan, which is anticipated to be in December, 2011.

7. Additional Provisions:

a. Officials Not to Benefit. No Member of or Delegate to Congress or Resident Commissioner or official of the United States or the State of Colorado shall benefit from this MOU other than as a water user or landowner in the manner as other water users or landowners.

b. No Improper Payments. The parties hereto warrant that they have not employed any person to solicit this MOU upon any contract for a commission, percentage, brokerage, or contingent fee, except those disclosed. Breach of this warranty shall give any of the parties hereto the right to annul the MOU. This warranty shall not apply to commissions payable by contractors upon contracts or sales secured or made through bona fide established commercial or selling agencies maintained by the parties hereto for the purpose of securing this MOU.

c. Appropriations. Nothing contained in this MOU shall be construed as binding the United States to expend in any one fiscal year any sum in excess of appropriations made by Congress for the purposes of this MOU for that fiscal year or as involving the United States in any contract or other obligation for the further expenditure of money in excess of such appropriations.

d. Termination. Any party may withdraw from this agreement with written notice to the other parties at least 30 days in advance of the effective date of termination.

e. Modification. Other entities may become party to this agreement at anytime during development of the SMP without the necessity of existing Parties re-executing the entire agreement.

Carol DeAngelis, Area Manager
Bureau of Reclamation

8/25/10
Date

Keith Catlin, President
Uncompahgre Valley Water Users Association

8/30/10
Date

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Carol DeAngelis, Area Manager
Bureau of Reclamation

8/25/10
Date

Jennifer Gimbel, Director
Colorado Water Conservation Board

9/15/10
Date

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Carol DeAngelis, Area Manager
Bureau of Reclamation

8/25/10
Date

R. Eric Kuhn, General Manager

9/2/10
Date

Colorado River Water Conservation District

additional agreements may be needed to define roles and responsibilities related to SMP implementation.

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Carol DeAngelis, Area Manager
Bureau of Reclamation

8/25/10
Date

Susan Linner, Colorado Field Supervisor
Fish and Wildlife Service

9/8/10
Date

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Carol DeAngelis, Area Manager
Bureau of Reclamation

8/25/10
Date

Brett Redden, President
Upper Gunnison River Water Conservancy District

8/31/10
Date

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Carol DeAngelis, Area Manager
Bureau of Reclamation

8/25/10
Date

David Brown, Supervisory Hydrologist
U.S. Geological Survey

9/16/10
Date

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Carol DeAngelis

Carol DeAngelis, Area Manager
Bureau of Reclamation

8/25/10
Date

Barbara Sharrow

Barbara Sharrow, Field Office Manager
Bureau of Land Management

8-30-10
Date

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Carol DeAngelis, Area Manager
Bureau of Reclamation

8/25/10
Date

Allen Green, State Conservationist
Natural Resources Conservation Service

9/8/10
Date