

# Colorado Water Conservation Board

CONSTRUCTION FUND  
AND  
SEVERANCE TAX TRUST FUND  
PERPETUAL BASE ACCOUNT

## SMALL PROJECT LOAN REPORT



Colorado Water Conservation Board  
Department of Natural Resources

2007

## PREFACE

Pursuant to Section 37-60-122(b) of the C.R.S. the Colorado Water Conservation Board (CWCB) is required to submit a report by January 15<sup>th</sup> of each year to the Colorado General Assembly describing the basis for all Construction Fund and Severance Tax Trust Fund Perpetual Base Account loans authorized by the CWCB under \$10,000,000. This report fulfills the CWCB reporting obligations for those small project loans for calendar year 2007.

The report includes a summary spreadsheet identifying each loan approval date, the project sponsor or borrower, the project name, the loan amount, and the name of the County and river basin where the project is located. There were 13 loan projects under \$10 million approved by the CWCB in calendar year 2007. The Board also approved loan amount increases to 2 previously approved projects. The total loan value of the 15 projects was over \$19,000,000

Also included in the report is a loan project data sheet for each project that includes a project description, project location map, and other pertinent loan and project information.

Colorado Water Conservation Board  
 Small Project Loans  
 For Calendar Year 2007

Item	Date Approved	Sponsor	Project	Amount Approved	County	Basin
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**Severance Tax Trust Fund Perpetual Base Account**

1	01/23/07	Greeley Irrigation Company	Greeley Canal No. 3 Rehabilitation	\$ 2,233,867	Weld	South Platte
2	01/23/07	Bull Creek Reservoir, Canal & Power Compan	Bull Creek Reservoir No. 4 Enlargement & Rehabilitation	\$ 1,212,000	Mesa	Colorado River
3	01/23/07	Town of DeBeque	Town of DeBeque Irrigation System Improvements	\$ 252,500	Mesa	Colorado River
4	01/23/07	Seven Lakes Reservoir Company	Dry Creek Railroad Crossing Rehabilitation	\$ 772,842	Larimer & Weld	South Platte
5	01/23/07	Wood Lake Mutual Water and Irrigation	Angel Lake Outlet and Spillway Repair	\$ 212,706	Weld	South Platte
6	03/13/07	Lower Poudre Augmentation Company	Timnath Flatiron Reservoir and Water Purchase	\$ 3,104,053	Larimer & Weld	South Platte
7	05/22/07	Black Dike Pipeline Company	Black Dike Ditch Pipeline Project	\$ 603,980	Montezuma	Dolores & San Juan
8	07/11/07	Montezuma Valley Irrigation Company	May Lateral Pipeline Project Construction	\$ 5,292,400	Montezuma	Dolores & San Juan
9	07/11/07	Henrylyn Irrigation District	Horse Creek & Prospect Reservoirs Rehabilitation	\$ 2,184,327	Weld	South Platte
10	07/11/07	Lower Latham Reservoir Company	Water Rights Purchase & Well Augmentation Project	\$ 1,994,596	Weld	South Platte
11	07/11/07	Town of Hillrose	Water Rights Purchase & Well Augmentation	\$ 49,995	Morgan	South Platte
12	09/19/07	Bijou Irrigation Company	Bijou Canal Diversion Structure Rehabilitation	\$ 763,560	Morgan & Weld	South Platte
13	09/19/07	Bijou Irrigation District	Empire Intake Canal Diversion Structure Rehabilitation	\$ 654,480	Morgan & Weld	South Platte
14	05/22/07	Bijou Irrigation District	Increase to Empire Reservoir Rehabilitation	\$ 51,290	Morgan & Weld	South Platte
15	09/19/07	Larimer and Weld Irrigation Company	Increase to Larimer and Weld Ditch Rehabilitation	\$ 105,492	Weld	South Platte

**Total Small Project Loans Approved in 2007 From Severance Tax**

**\$ 19,488,088**

**Construction Fund**

\$ -

**Total Small Project Loans Approved in 2007 From Construction Fund**

**\$ -**

**Grand Total - Small Project Loans in 2007**

**\$ 19,488,088**

## Water Project Construction Loan Program - Project Data

**Borrower:** Greeley Irrigation Company

**County:** Weld

**Project Name:** Greeley Canal No. 3

**Project Type:** Ditch Rehabilitation

**Drainage Basin:** South Platte

**Water Source:** Cache La Poudre River

**Total Project Cost:** \$2,457,500

**Funding Sources:** CWCB, GIC

**Type of Borrower:** Agricultural/Municipal

**Aver. Delivery:** 18,000 acre-feet

**CWCB Construction Fund Loan:** \$2,233,867  
(incl. 1% loan fee)

**Interest Rate:** 2.85% **Term:** 30 years

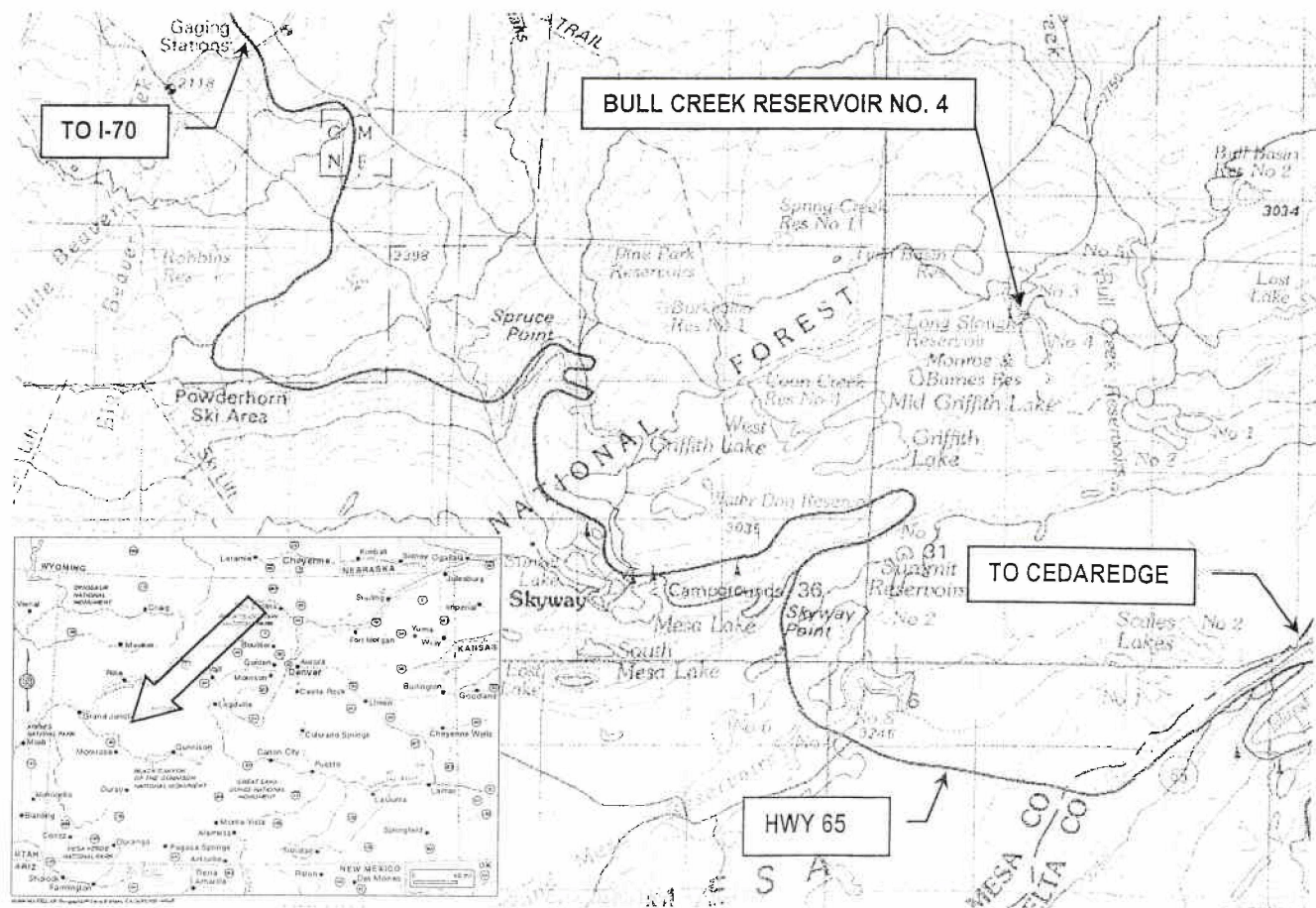
GIC provides irrigation water to a service area of 2,367 acres in Weld County, generally within the City of Greeley and east of the City. GIC operates the Greeley Canal No. 3, constructed in 1870 by the Union Colony. In 1875, the Union Colony deeded an undivided 3/8ths interest in the Canal to the then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



# CWCB Construction Loan Program PROJECT DATA SHEET

**Borrower:** Bull Creek Res. Canal & Power Co.    **County:** Mesa  
**Project Name:** Res. No. 4 Rehabilitation/Enlarge    **Project Type:** Reservoir Rehabilitation  
**Drainage Basin:** Colorado River    **Water Source:** Bull Creek  
**Total Project Cost:** \$1,333,000    **Funding Sources:** CWCB & Company  
**Type of Borrower:** Agricultural    **Company Delivery:** 900 acre-feet  
**Loan Amount:** \$1,200,000    **Interest Rate:** 2.5%    **Term:** 30 years

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 Company plans to repair and enlarge Reservoir No. 4. This will remove the current restriction on the reservoir 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 and will require special mobilization techniques. Construction is scheduled for the Summer of 2007.



LOCATION MAP

11/07

# CWCB Construction Loan Program Project Data Sheet

**Borrower:** Town of DeBeque

**County:** Mesa

**Project Name:** Irrigation System Improvements

**Project Type:** Secondary Water System

**Drainage Basin:** Colorado River

**Water Source:** Roan Creek

**Total Project Cost:** \$370,000

**Funding Sources:** CWCB

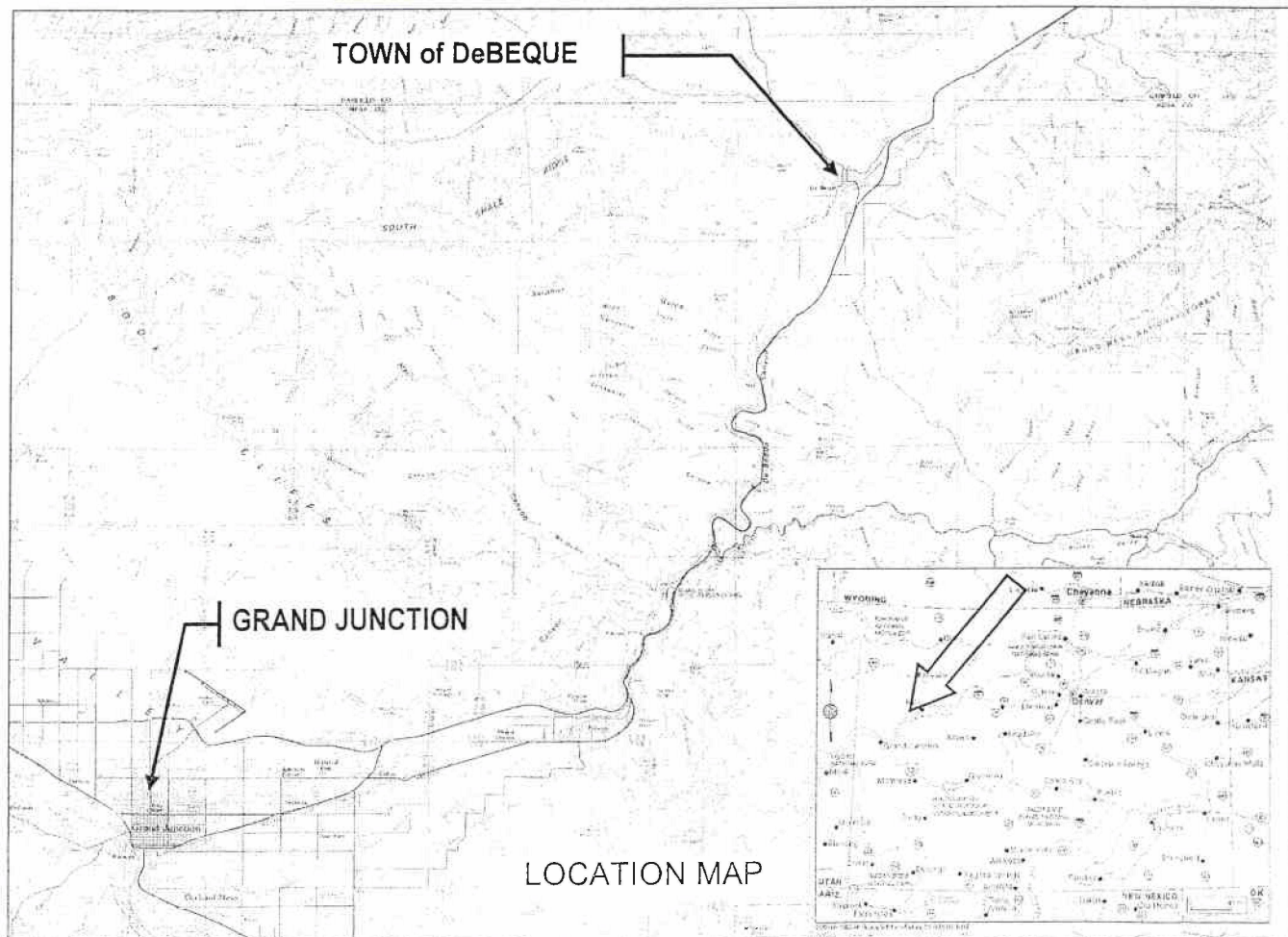
**Type of Borrower:** Low Income Municipal

**Average Reservoir Delivery:** 710 acre-feet

**Loan:** \$250,000 (70% of total Project cost)

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

The Town of DeBeque is constructing a new collection structure in the Colorado River and pump/piping system as part of the Irrigation System Improvements Project. The Project is expected to cost \$370,000 and provide an improvement to the Town's irrigation water delivery system. The improvements will increase delivery quantity and efficiency and will also reduce the demand on the Town's drinking water supply. The Town is located approximately 30 miles east of Grand Junction and serves 480 residents with sewer and water. The present irrigation system serves approximately half of the Town's residence however the system is often low on pressure and unreliable. In addition to increasing system reliability, this project will help utilize a recently acquired 3.5 cfs surface water right on the Colorado River. This right combined with the 1.7 cfs right from Roan Creek will serve the needs of the 480 residences, two schools and a cemetery. Construction of the pipeline and pump station is expected in early 2007.



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### Water Project Construction Loan Program - Project Data

**Borrower:** Seven Lakes Reservoir Company (SLRC)

**County:** Larimer, Weld

**Project Name:** Dry Creek Railroad Crossing

**Project Type:** New Canal Crossing/RR Bridge

**Drainage Basin:** South Platte

**Water Source:** Big Thompson River

**Total Project Cost:** \$850,210

**Funding Sources:** CWCB, SLRC

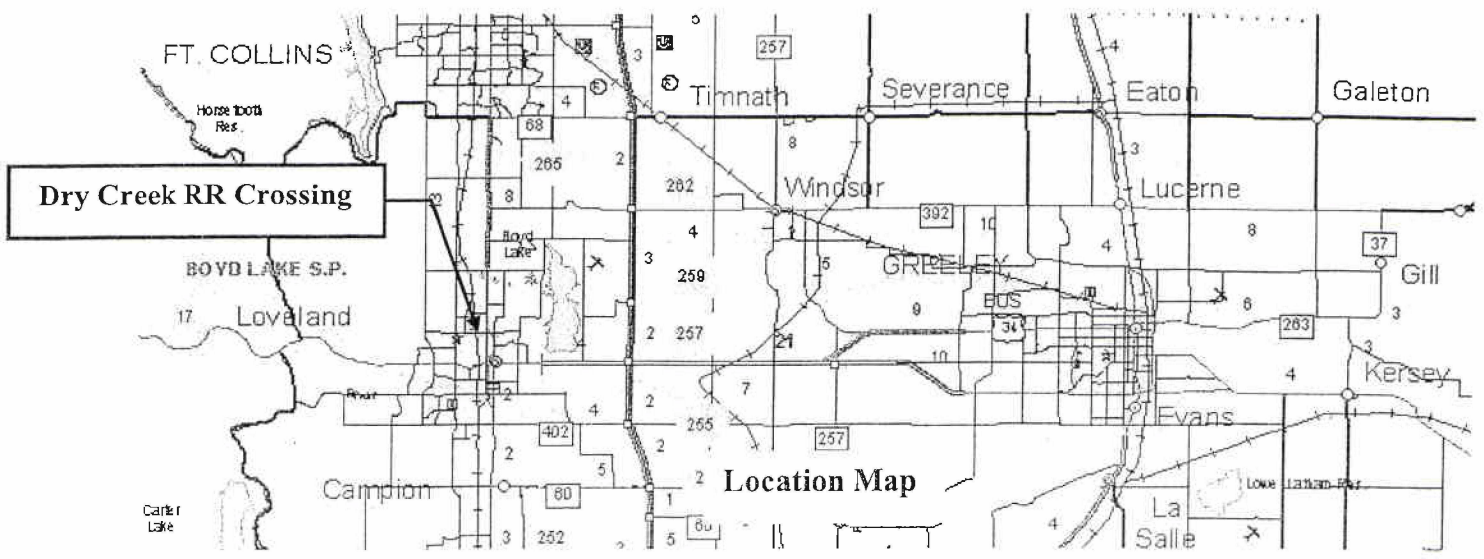
**Type of Borrower:** Agricultural/Municipal

**Aver. Delivery:** 7,796 acre-feet

**CWCB Construction Fund Loan:** \$772,842 (incl. 1% loan fee)

**Interest Rate:** 2.95% **Term:** 30 years

The 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 has no direct flow rights but has a storage decree for Horseshoe Reservoir for 8,432 AF. SLRC does not have its own delivery system but relies on GLIC to carry its water to shareholders. 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. It is then passed through Lake Loveland and discharged out via the North Outlet canal which flows into Dry Creek, and ultimately into Horseshoe Reservoir. The section of canal and natural drainage channel is approximately 7,500-feet in length. SLRC desires to remove and replace the 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. The project would 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.



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### Water Project Construction Loan Program - Project Data

<b>Borrower:</b> Wood Lake Mutual Water and Irrigation Company (WLIC)	<b>County:</b> Weld
<b>Project Name:</b> Angel Lake	<b>Project Type:</b> Outlet & Spillway Repair
<b>Drainage Basin:</b> South Platte	<b>Water Source:</b> Larimer Weld (Eaton) Ditch
<b>Total Project Cost:</b> \$234,000	<b>Funding Sources:</b> CWCB, WLIC
<b>Type of Borrower:</b> Agricultural	<b>Aver. Delivery:</b> 848 acre-feet
<b>CWCB Construction Fund Loan:</b> \$212,706 (incl. 1% loan fee)	<b>Interest Rate:</b> 2.50% <b>Term:</b> 30 years

WLIC irrigates about 2,150 acres in northern Colorado, in Weld County north of Greeley. WLIC facilities are located approximately 5 miles west of Eaton, and 2 miles east of Severance on Weld County Road 74, and consist of Wood Lake (3,235 AF), Angel Lake (424 ac-ft with refill), and Meyers Lake (600 ac-ft.), and approximately 5 miles of unlined ditch. WLIC's decreed water right for Angel Lake is for 424.7 acre-feet with a refill, for a total 848 acre-feet. Total delivery from all WLIC sources is about 6,700 AF. WLIC receives its storage water for irrigation through the Larimer & Weld (Eaton) Ditch. The Angel Lake dam is approx. 2000 feet in length with a crest width of 50 feet (including roadway) and a max. height of about 16 feet. The dam is located on the south and east sides of the reservoir with the outlet located on the south side. A portion of the dam is also the roadway embankment for WCR 74. Both the Angel Lake outlet conduit and spillway conduits are in poor condition, and need repair/replacement to avoid future SEO storage restriction. The outlet is an 18-inch clay pipe which has reached its usable life span, and the service spillway conduit is an 18-inch clay pipe that is in very poor condition. The proposed project will address deficiencies to meet the current standards and requirements of the SEO with full replacement of the outlet works and service spillway. Work will include breaching the dam embankment and removing the existing outlet works; replacing the existing outlet with 30-inch dia. concrete pipe; control structures including the intake structure with gate, gate tower with control gate, and energy dissipation outlet structure; installation of a toe drain to intercept seepage; construction of a service spillway incorporated into the outlet works to pass the 100-year storm; and placement of riprap and bedding on the upstream face of the dam in the breach area and at the energy dissipation structure.





3/07

### Water Project Construction Loan Program - Project Data

**Borrower:** Lower Poudre Augmentation Co.

**County:** Larimer, Weld

**Project Name:** Timnath Flatiron Reservoir

**Project Type:** Reservoir and Water Purchase

**Drainage Basin:** South Platte

**Water Source:** Box Elder Ditch, Other Sources

**Total Project Cost:** \$3,414,800

**Funding Sources:** CWCB, LPAC

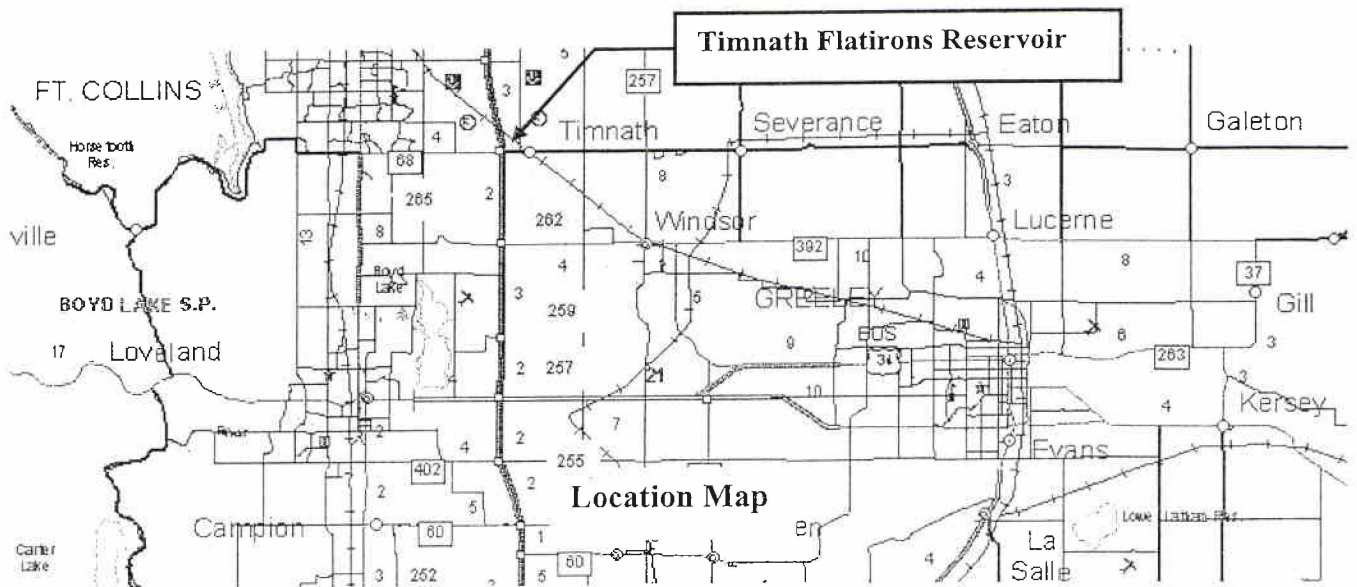
**Type of Borrower:** Agricultural

**Aver. Delivery:** 657 acre-feet reservoir capacity

**CWCB STTFPBA Loan:** \$3,104,053  
(incl. 1% loan fee)

**Interest Rate:** 2.50% **Term:** 30 years

The 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.) LPAC supplies well augmentation coverage for well owners throughout the Irrigating Company service area in Larimer and Weld Counties. 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 is located in Larimer County at the northeast corner of I-25 and Harmony Road, and would be filled via a lateral from the Boxelder Ditch located on the west side of I-25. 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 reservoir is desirable because of its location relative to the Irrigating Company and the depletions associated with the LPAC Augmentation Plan. The Irrigating Company river diversion structure is just downstream of the reservoir, less than two miles with no intervening diversions. Thus, any water released out of reservoir can be left in the river to replace well depletions in various reaches of the Augmentation Plan, or taken to other facilities within the service area. The acquisition of the Boxelder Ditch shares provides the LPAC a good senior right to respond quickly to augmentation plan needs.

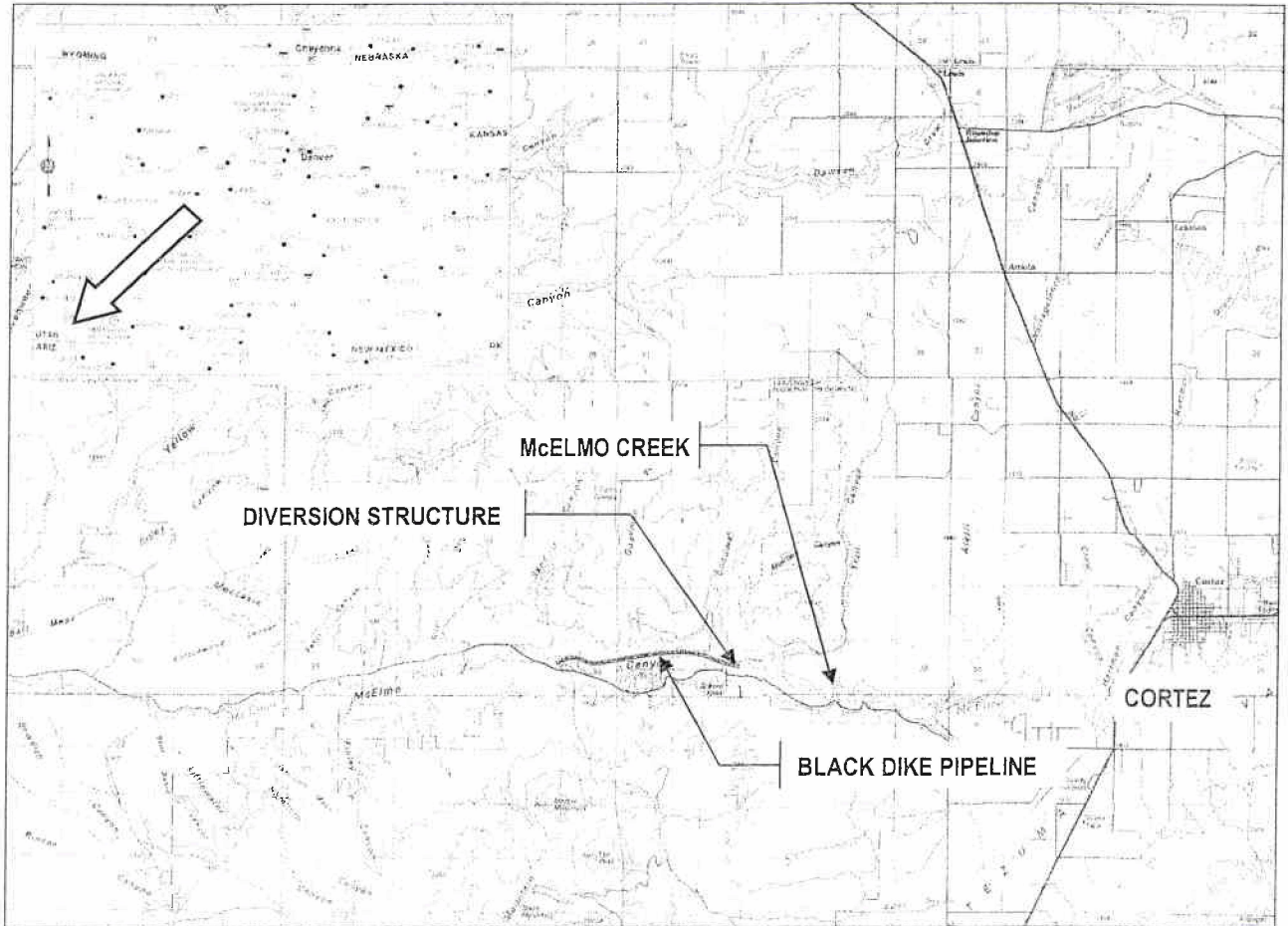


5/07

### CWCB Construction Loan Program Project Data Sheet

**Borrower:** Black Dike Pipeline Company      **County:** Cortez *Huerfano*  
**Project Name:** Pipeline Project      **Project Type:** Ditch Piping for Salinity Control  
**Drainage Basin:** San Miguel-Dolores/San Juan      **Water Source:** McElmo Creek  
**Total Project Cost:** \$598,000      **Funding Sources:** NRCS, CWCB  
**Type of Borrower:** Ag/Middle Income Municipal      **Average Delivery:** 1003 acre-feet  
**Loan Amount:** \$207,000 (Initial loan \$598,000)      **Interest Rate:** 2.85%      **Term:** 30 years

The Black Dike Pipeline Company is a non-profit corporation established in the State of Colorado in 2007. The Company manages the Black Dike Ditch for the nine members that own water rights and land served by the ditch. The diversion point is located on McElmo Creek west of the Cortez. The ditch is approximately four (4) miles long and carries approximately 7.75 cfs. The proposed ditch pipeline project will install new PVC piping from 21-inch to 15-inch pipe along with metered delivery points at member-owned lands. NRCS has provided planning and design services, however it is the intent of the borrower to hire Harward Irrigation Systems to provide final design and construction services. CWCB funding will consist of an initial loan of \$598,000 that will be reduced by an NRCS Colorado River Basin Salinity Control Program grant of \$391,000 following project completion. The remaining \$207,000 will become a 30-year CWCB Loan.



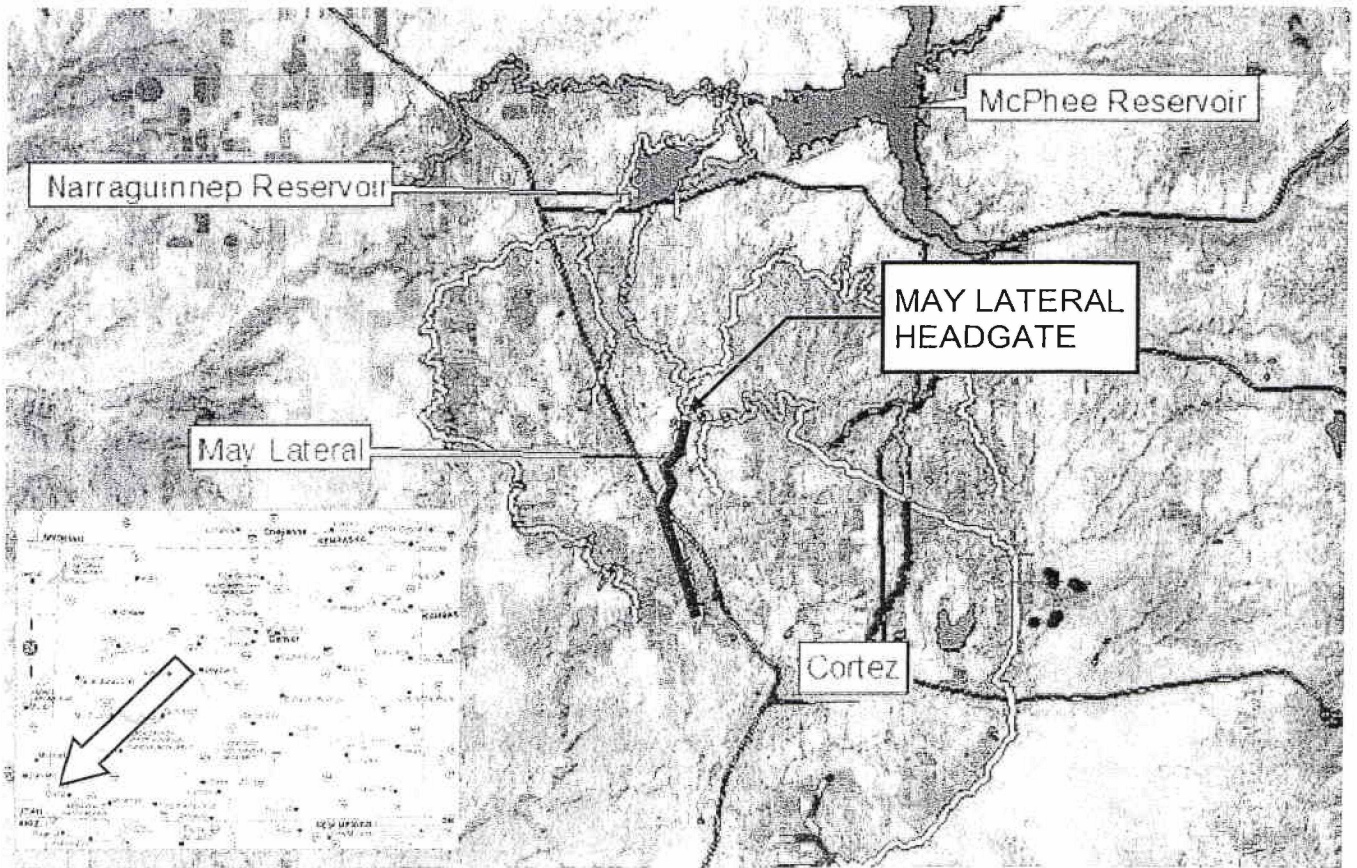
LOCATION MAP

7/07

## CWCB Construction Loan Program Project Data Sheet

**Borrower:** Montezuma Valley Irrigation Co.      **County:** Montezuma  
**Project Name:** May Lateral Pipeline Project      **Project Type:** Ditch Piping  
**Drainage Basin:** San Miguel-Dolores/San Juan      **Water Source:** Dolores River  
**Total Project Cost:** \$5,870,000      **Funding Sources:** CWCB, NRCS Grant?  
**Type of Borrower:** Agricultural      **Average Delivery:** 128,000 acre-feet  
**Loan Amount:** \$5,292,400 (Including 1% fee)      **Interest Rate:** 2.25%      **Term:** 30 years

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.



LOCATION MAP

## Water Project Construction Loan Program - Project Data

**Borrower:** Henrylyn Irrigation District

**County:** Weld

**Project Name:** Horse Creek & Prospect Reservoirs

**Project Type:** Reservoir Rehabilitation

**Drainage Basin:** South Platte

**Water Source:** Denver- Hudson Canal

**Total Project Cost:** \$2,403,000

**Funding Sources:** CWCB, HID

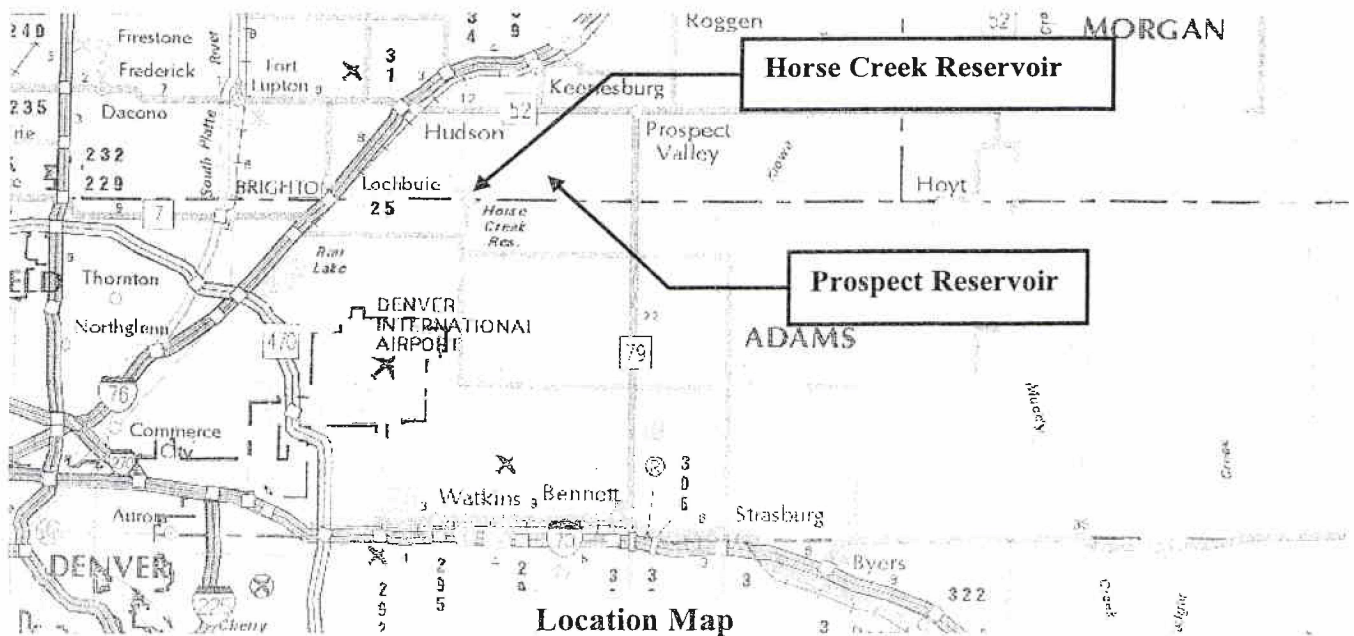
**Type of Borrower:** Agricultural

**Aver. Delivery:** 13,850 acre-feet

**CWCB Construction Fund Loan:** \$2,184,327  
(incl. 1% loan fee)

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

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 service area starts about 2 miles west of Hudson and extends generally east and south along I-76, to about 9 miles east of Keenesburg. 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. Annual HID delivery is 19,175 AF. 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.



7/07

## Water Project Construction Loan Program - Project Data

**Borrower:** Lower Latham Reservoir Co.

**County:** Weld

**Project Name:** Well Augmentation

**Project Type:** Water Rights Purchase

**Drainage Basin:** South Platte

**Water Source:** 6 shares of Lower Latham Ditch

**Total Project Cost:** \$2,194,275

**Funding Sources:** CWCB, LLRC

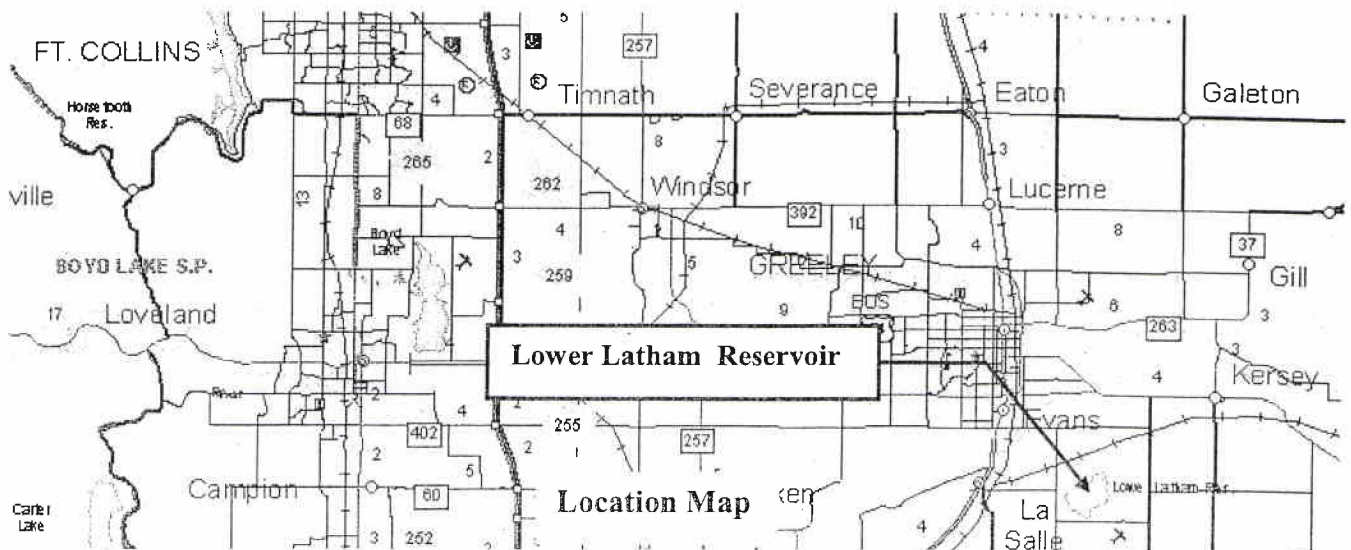
**Type of Borrower:** Agricultural

**Aver. Delivery:** 450.3 AF consumptive use

**CWCB STTFPBA Loan:** \$1,994,596  
(incl. 1% loan fee)

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

The Lower Latham Reservoir Company (LLRC) is acquiring 6 shares of Lower Latham Ditch Company (LLDC), for the purpose of providing augmentation water for existing shareholder wells. The LLRC, and its sister company the LLDC, provide irrigation to approximately 11,000 acres in Weld County, and LLRC also provides well augmentation for 85 wells in order to replace out-of-priority pumping depletions. There are 40 wells that were formerly in the Groundwater Appropriators of the South Platte (GASP) Augmentation Plan, and there are 45 wells also covered in the Augmentation Plan of the Groundwater Management Subdistrict (GMS) of the Central Colorado Water Conservancy District. The LLRC is seeking its own Augmentation Plan that will cover the former GASP wells, and supplement coverage of the GMS wells that are not expected to be fully covered. A 2007 SWSP for LLRC was approved by the SEO in May 2007, with a total replacement obligation of 586.6 acre-feet. In 2003, LLRC filed a permanent well augmentation plan that is pending. LLRC has concluded that additional replacement sources are necessary to provide sufficient replacement water during extended drought years. In March 2007, LLRC purchased the 384 acre Rothe Farm, including 4 shares of LLDC, with an estimated average of 366.2 acre-feet of consumptive use. In May 2007, LLRC purchased the 55.9 acre DeJong Farm and water rights for which included 2 shares of LLDC, with an estimated average of 84.1 acre-feet of consumptive use. The LLDC is an excellent replacement water source because of a senior water right that sustains a high yield during both average and drought years. The CWCB loan includes only the water rights portion of the farm purchases. Also, included in the project is instrumentation to measure and record flow at various locations on the system, in order to facilitate augmentation plan operation.

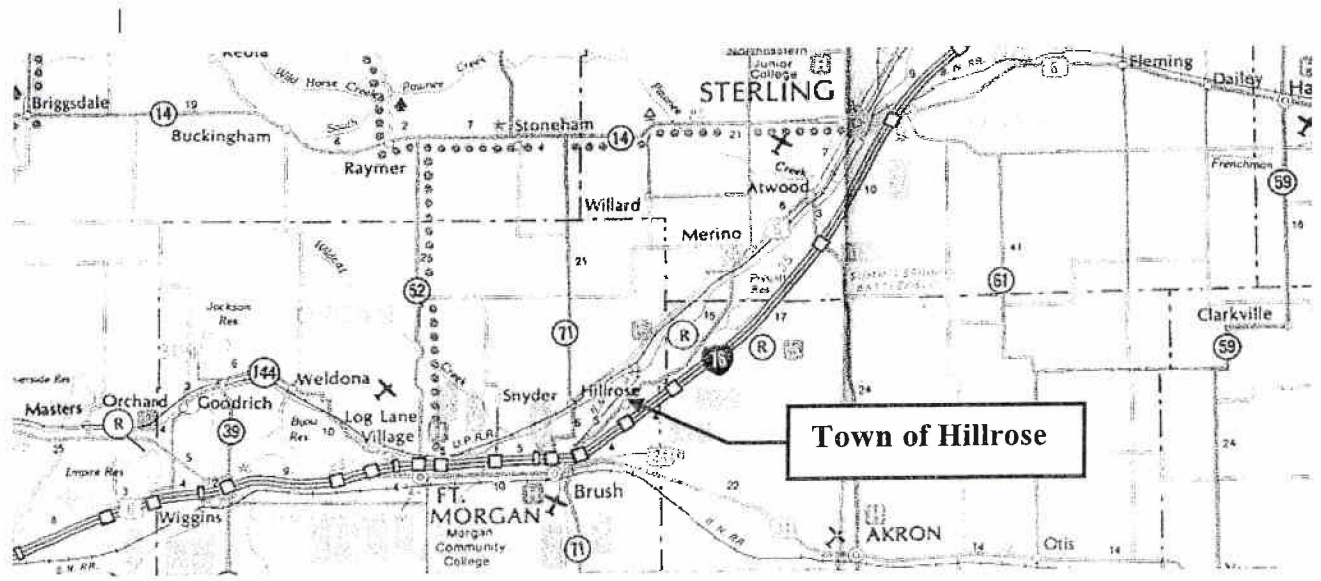


7/07

### Water Project Construction Loan Program - Project Data

<b>Borrower:</b> Town of Hillrose	<b>County:</b> Morgan
<b>Project Name:</b> Well Augmentation	<b>Project Type:</b> Water Rights Purchase
<b>Drainage Basin:</b> South Platte	<b>Water Source:</b> Lower Platte & Beaver Ditch
<b>Total Project Cost:</b> \$55,000	<b>Funding Sources:</b> CWCB, Town
<b>Type of Borrower:</b> Municipal - Low	<b>Aver. Delivery:</b> 9.675 AF pumping allocation
<b>CWCB STTFPBA Loan:</b> \$49,995 (incl. 1% loan fee)	<b>Interest Rate:</b> 3.00% <b>Term:</b> 30 years

The Town of Hillrose is located approximately 15 miles east of Fort Morgan, along SH 6. The current population is about 270 residents and the Town currently serves water 132 taps, with the potential to serve 9 additional taps, if existing annexed lots are developed. Typical water usage averages 40 AF per year. In 2003, with restricted outside watering, the usage was 26 AF. The Town currently has one tributary groundwater well (Permit # 018543-F) to supply all of the water required for the town, but this well and the existing distribution system will be converted to a secondary water system for outdoor irrigation, as the Town is in the process of connecting to Morgan County Quality Water District (MCQWD) for domestic water service. This change is anticipated to be complete in Fall 2007. The well is currently augmented under the Lower Platte and Beaver Canal Company (LP&B) plan of operations. The Town needs additional water in order to protect the well from curtailment under the LP& B plan, and they will continue to be covered under the LP& B plan. The Town will receive 12 AF annually from MCQWD for indoor use. In average years, 28 AF will be needed for outside watering, and 14 AF in drought years (with watering restrictions.) The Town currently owns 1 1/2 shares of LP & B. With the proposed loan the Town is purchasing an additional 6 shares of LP & B that will provide a total of 9.675 AF of pumping allocation in dry years, and 19.35 AF in normal years. This will be a significant step toward covering the Town's dry-year (restricted outside watering) augmentation need scenario.



Location Map

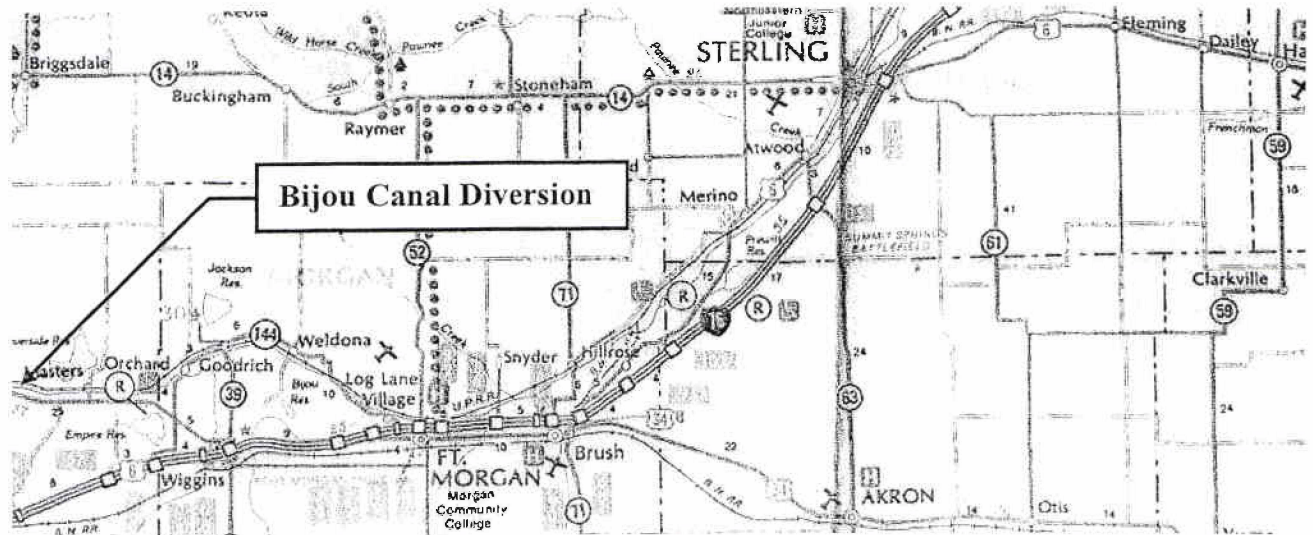


9/07

### Water Project Construction Loan Program - Project Data

<b>Borrower:</b> Bijou Irrigation Company (Company)	<b>County:</b> Morgan & Weld
<b>Project Name:</b> Bijou Canal Diversion Structure	<b>Project Type:</b> Rehabilitation
<b>Drainage Basin:</b> South Platte	<b>Water Source:</b> So. Platte River
<b>Total Project Cost:</b> \$840,000	<b>Funding Sources:</b> CWCB, BIC
<b>Type of Borrower:</b> Agricultural	<b>Aver. Delivery:</b> 41,790 acre-feet
<b>CWCB STTFPBA Fund Loan:</b> \$763,560 (incl. 1% loan fee)	<b>Interest Rate:</b> 2.25% <b>Term:</b> 30 years

The Company is a Colorado non-profit corporation, providing irrigation water to a 24,000-acre service area in Weld and Morgan Counties, west and south of Fort Morgan. The Company has direct flow rights at the Bijou Canal diversion on the South Platte, and maintains about 90 miles of ditch, Bijou No. 2 Reservoir, and some augmentation ponds. Average headgate diversions from all sources are 47,460 AF per year and annual share delivery is 6,920 AF, with 27,870 AF of depletions covered in the Company's well augmentation plan, and 7,000 AF carried for the Putnam Ditch. Its sister entity, Bijou Irrigation District owns and operates Empire Reservoir west of Fort Morgan. Water stored in the reservoir is delivered to users by the Company to supplement the direct flows, typically in July and August. The Company river diversion structure/headgate consists of two components: 1) the ditch intake structure, which consists of a structure with 5 steel radial gates to adjust flows into the Bijou Canal, that is in good condition, and 2) the river diversion structure, used to divert flow into the ditch intake structure, using a radial gate, slide gate and board system to divert flow into the ditch. The diversion structure has suffered extreme damage in times of high flow in the river. This structure can not be operated in a manner to reduce the sand upstream of the intake gates. The sand bar causes excessive amount of sand to be drawn into the canal and hampers diversions into the intake structure. The existing diversion also has a problem with debris, mainly trees getting hung up, and requires continual maintenance. The proposed project would make repairs to the river diversion portion of the structure by constructing a 96 foot long Obermeyer Pneumatic Spillway Gate (Bladder Gate) located immediately adjacent to the river radial gate and the canal intake structure.



Location Map

9/07

## Water Project Construction Loan Program - Project Data

**Borrower:** Bijou Irrigation District (District)

**County:** Morgan & Weld

**Project Name:** Empire Intake Canal  
Diversion Structure

**Project Type:** Rehabilitation

**Drainage Basin:** South Platte

**Water Source:** So. Platte River

**Total Project Cost:** \$720,000

**Funding Sources:** CWCB, BID

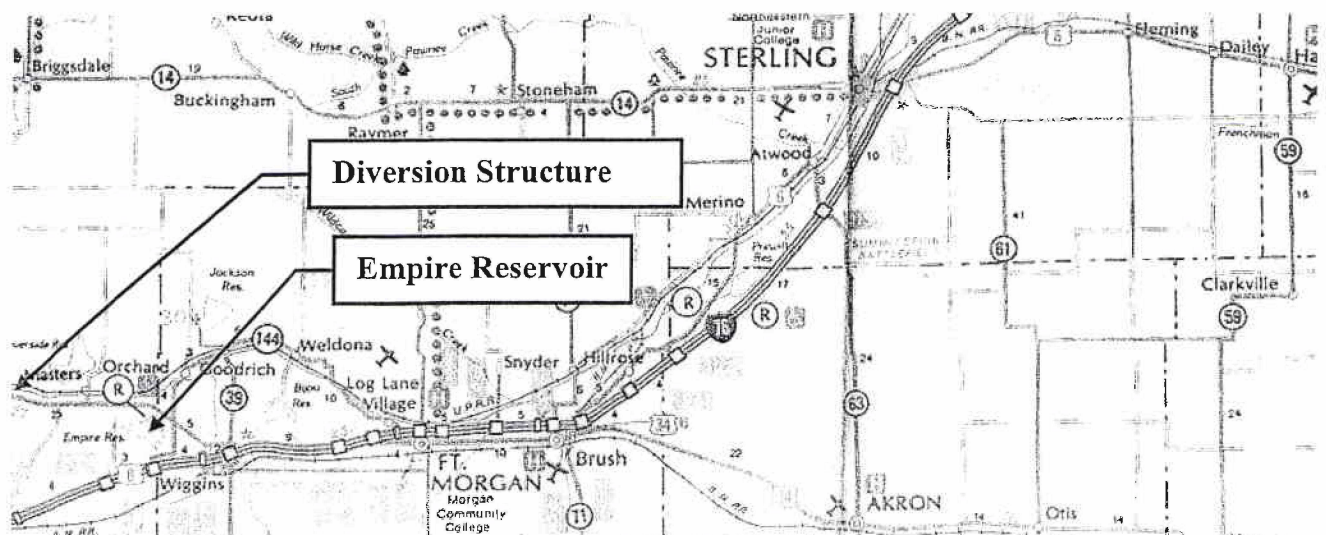
**Type of Borrower:** Agricultural

**Aver. Delivery:** 15,900 acre-feet

**CWCB STTFPBA Fund Loan:** \$654,480  
(incl. 1% loan fee)

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

The District is a statutory Irrigation District (1905) and owns and operates Empire Reservoir located west of Fort Morgan. It provides irrigation water to a 19,177-acre service area in Morgan County, located between the reservoir and the City of Fort Morgan. In addition to the Reservoir, the District owns and operates the diversion structure/headgate on the South Platte and the reservoir intake and outlet canals. Water stored in the reservoir is delivered to users through a sister company, Bijou Irrigation Company. Annual District headgate diversions are 50,970 acre-feet, and delivery from the reservoir is about 15,900 acre-feet. The District diversion structure/headgate consists of two components: 1) the ditch intake structure, which consists of a structure with 5 steel radial gates to adjust flows into the Empire Intake Canal, which is in good condition, and 2) the river diversion structure, used to divert flow into the canal intake structure, which is in need of significant repairs. The diversion structure has suffered extreme damage in times of high flow in the river. It currently uses a board system to control water levels in the river, and the structure has lost its effectiveness due to large sand build-up on the upstream side. The current structure cannot be operated in a manner to reduce the sand upstream of the intake gates, causing excessive sand to be drawn into the intake canal, and hampering diversions into the inlet. The diversion also has a problem with debris, mainly trees getting hung up, and requires continual maintenance. The proposed project would make repairs to the river diversion portion of the structure by constructing a 100 foot long gate structure and installation of an Obermeyer Pneumatic Spillway Gate (Bladder Gate), located immediately adjacent to the canal intake structure.



Location Map