Manassa Land & Irrigation
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July 17, 2012

Mr. Greg Johnson
Colorado Water Conservation Board
Intrastate Water Management and Development
1580 Logan Street, Suite 200
Denver, CO 80203

RE: ML&I Conejos North Branch Water Conservation & Management
Final Report
CMS #30556
PO # OE PDA 11000000109

Dear Mr. Johnson:

The directors and officers of Manassa Land & Irrigation would like to thank you for the opportunity to work with you on this project, it has been a pleasure. The project is complete, and with this letter we would like to close out our CWCB Water Supply Account, CMS #30556. I am sending photographs of the project in separate attachments. Once again thank you for your hard work in making this a successful project.

The tasks that were completed under WSRA Funding are as follows:

TASK 4 – Build and install radial gate for #3 diversion structure

Description of Task

Build radial gate for #3 diversion structure and install.

Method/Procedure

During winter months, Contractor will custom build 12'x4' radial gate conforming to NRCS specifications.

Prior to spring of 2011, Contractor will install radial gate in #3 diversion structure.

Deliverable

Diversion #3 has been replaced and upgraded, enabling MLI to meet irrigation deliveries in priority.

TASK 5 – Remove #98 Headgate

Description of Task

Remove #98 Headgate

Method/Procedure

Mobilize two track hoes, one with thumb attachment and one with jackhammer attachment, and dump truck.
Demolish existing #98 Headgate
Crush material and stockpile for use as rip-rap on the new structure
Put site to grade

Deliverable

#98 Headgate has been removed and site has been graded

TASK 6 – Place Forms to Install Concrete at #98 Headgate

Description of Task

Place forms to install concrete at #98 Headgate

Method/Procedure

Contractor and 4 workers will construct framing for concrete in compliance with NRCS engineering specifications.

Deliverable

Ready to pour concrete formed structure at #98 Headgate

TASK 7 – Pour Concrete for Headgate #98

Description of Task

Pour Concrete for Headgate #98

Method/Procedure

27.92 cubic yards of concrete delivered to site
Contractor and 4 workers pour concrete for headgate into forms. Allow to cure for one week.

Deliverable

Concrete structure is ready for installation of new Headgate #98

TASK 8 –Build and install radial gate at Headgate #98

Description of Task

Build radial gate and install at Headgate #98 diversion structure

Method/Procedure

During winter months, Contractor will custom build 12'x4' radial gate conforming to NRCS specifications.

Prior to spring of 2011, Contractor will install radial gate at #98 diversion structure.

Deliverable

Diversion #98 has been replaced and upgraded, enabling MLI to meet irrigation deliveries in priority.

TASK 10 – Contractor installs Parshall flume measuring weirs on 5 laterals

Description of Task

Ten Parshall flumes will be installed at the head and midway down the length of five laterals.

Method/Procedure

In preparation for irrigation season, in spring of 2011, Contractor will install ten Parshall flume measuring weirs on each of five laterals, one at the head and one at the midpoint of each lateral.

The installation will start from the west and work eastward.

Deliverable

Ten Parshall flumes are installed, creating the ability to distribute water by measured volume, thus greatly increasing operational efficiency and enabling quantification of water use and recharge.

Some of the non invoiced, in-kind work included engineering provided by NRCS, tasks 1, 2, 3 and a small percentage of the above mentioned work.

The objectives of this project were to:

(1) Quantify flows within the MLI system for more uniform/efficient water distribution
(2) Conserve water and protect water resources, greatly improving irrigation efficiency
(3) Restore optimal performance of the irrigation system.
(4) Improve MLI's ability to respond to changing needs for water for 18,000 irrigated acres
(5) Reduce the propagation of maintenance issues for multiple ditch companies
(6) Support recent improvements in the North Branch Diversion by meeting multiple objectives
(7) Reduce the burden of repeated and ineffective maintenance efforts
(8) Restore full operational capacity to a system which has reached the end of its useful life
(9) Enable MLI to obtain decreed water rights and meet priority calls

(10) Help meet agricultural demands for a sustainable water supply by quantifying use/recharge

The modernization of our 100-year-old system is now complete and in operation. We feel that we were successful in reaching all of our goals for the project, and that it will serve many generations to come. We worked with many willing and able people in this project. We believe that is a big contributing factor to the success of this great project.

Once again, it has been great working with you. Thank you for dedication and patience. We look forward to working with you in the future.

Respectfully Submitted,

Cindy L. Clark
Representative for the
Manassa Land & Irrigation: Conejos North Branch Water Conservation and Management Project.