

**Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
Agenda Item 23.i.**

Applicant: Green Ditch Company (City of Boulder is majority shareholder)

Water Activity Name: Green Ditch Diversion Rehabilitation and Fish Passage Project

Water Activity Purpose: Consumptive and Non-consumptive Structural Water Project

County: Gunnison

Drainage Basin: South Platte

Water Source: Boulder Creek

Amount Requested: \$245,000

Source of Funds: South Platte Basin (\$25,000) and Statewide Account (\$220,000)

Matching Funds: \$326,000 cash (cash match City of Boulder, US Fish and Wildlife Service, and Boulder Flycasters). Green Ditch Company providing and additional \$100,000 for temporary repair to allow for irrigation in 2014. Green Ditch Company also holds an emergency CWCB loan for \$505,000.

Staff Recommendation
Staff recommends approval upon the condition of providing the additional documentation specified below in Issues/Additional Needs section of up to \$25,000 from the South Platte Basin account and \$220,000 from the Statewide account to help fund the Green Ditch Diversion Rehabilitation and Fish Passage Project.

Water Activity Summary:

The September 2013 flood caused significant damage to the reach of Boulder Creek that includes the Green Ditch Diversion. The creek found a new path through a wetland complex, and it no longer flows to the Green Ditch headgate. The proposed project will reconstruct the Green Ditch diversion structure at a point approximately 1000 feet upstream of the existing point of diversion. The project will involve significant work to relocate the Boulder Creek channel, stabilize channel banks, and construct boulder cross vanes to direct flow into the ditch.

Discussion:

The diversion reconstruction project will serve as a valuable demonstration project. It incorporates objectives of the CWCB Watershed and Stream Protection Program. These objectives include reconstruction of diversion structures to improve: sediment transport, stream connectivity (longitudinally and laterally), flood resiliency, fish passage, and recreation opportunities.

The South Platte Roundtable identified the Boulder Creek reach that includes the Green Ditch Diversion as an Environmental Focus Area in the South Platte Basin Non-consumptive Needs Assessment. Boulder Creek from Highway 36 to the St. Vrain Creek confluence is important “habitat for plains fish that are listed as State threatened and endangered or species of concern” as well as providing a “municipal recreational corridor”.

The CWCB holds an instream flow water right on Boulder Creek that includes the project reach. The City of Boulder donated senior water rights to maintain instream flows in this reach.

Issues/Additional Needs:

Please provide the following additional detail:

- Geomorphic monitoring that conforms to CWCB standards should be incorporated to the scope of work.

- All proposed river channel work shall conform to the CWCB Rules and Regulations for Regulatory Floodplains in Colorado.

Staff Recommendation:

Staff recommends approval upon the condition of providing the additional documentation specified below in Issues/Additional Needs section of up to \$25,000 from the South Platte Basin account and \$220,000 from the Statewide account to help fund the Green Ditch Diversion Rehabilitation and Fish Passage Project.

All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and will help promote the development of a common technical platform.

In accordance with the revised WSRA Criteria and Guidelines, staff would like to highlight additional reporting and final deliverable requirements. The specific requirements are provided below.

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the scope of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

Engineering: All engineering work (as defined in the Engineers Practice Act (§12-25-102(10) C.R.S.)) performed under this grant shall be performed by or under the responsible charge of professional engineer licensed by the State of Colorado to practice Engineering.