Water Supply Reserve Account – Grant and Loan Program Water Activity Summary Sheet March 18-19, 2015 Agenda Item 17(h)

Applicant & Fiscal Agent: North Fork Farmers Extension Ditch

Water Activity Name: Ditch Slope Repair and Stabilization

Water Activity Purpose: Agricultural

County: Delta

Drainage Basin: Gunnison

Water Source: North Fork of the Gunnison River

Amount Requested/Source of Funds: \$35,000 Gunnison Basin Account

\$35,000 Total grant request

Matching Funds: Applicant Match (\$45,315) = 56.4% of total project costs (\$80,315)

(refer to Funding Summary/Matching Funds section)

Staff Recommendation:

Staff recommends approval of up to \$35,000 from the Gunnison Basin Account to help fund the project/study titled: Ditch Slope Repair and Stabilization.

Water Activity Summary:

WSRA funds will be expended to design and construct measures necessary to stabilize the earthen embankment of the canal, which failed in 2014. The 2014 failure did not breach the canal, but poses a risk toward the future operation of the canal. The design phase of the project will survey the failure area to map the extents of the slide, and provide data for slope stability modeling and rehabilitation design. Partial or full excavation of the slope failure may be required to stabilize the slope.

Discussion:

It is anticipated that a drain system will be required in order to render the slope stable. Construction plans and specification will be prepared by a professional engineer, which will be used to solicit bids from contractors.

Three tasks have been identified:

- 1) Engineering Study
- 2) Construction
- 3) Ditch Piping

Construction of stability improvements will likely involve the removal of the failed slope and the construction of a gravel drain system similar to a chimney drain frequently installed in dam embankments. The final design will depends on the results of the engineering study.

Issues/Additional Needs:

No issues or additional needs were identified.

Threshold and Evaluation Criteria:

The application meets all four Threshold Criteria

Tier 1-3 Evaluation Criteria: n/a

Funding Summary/Matching Funds:

The Gunnison roundtable has approved a request for \$35,000 from their basin account. Additional funds will be provided by the applicant, the Colorado River Water Conservation District, and the North Fork Water Conservancy District, as illustrated in the following table:

Task	Recipient Contribution	WSRA Gunnison Basin Funds	Colorado River District Grant	North Fork Water Conservancy District	Total
Task 1	\$11,000		\$2,600	\$2,500	\$16,100
Task 2		\$35,000	\$15,000		\$50,000
Task 3	\$14,215				\$14,215
Total	\$25,215	\$35,000	\$17,600	\$2,500	\$80,315

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.