

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
January 27-28, 2014
Agenda Item 31(f)

Applicant: Summit Reservoir and Irrigation Company

Water Activity Name: Evaluation of Potential Infrastructure Upgrades

Water Activity Purpose: Agriculture/Study

County: Dolores

River Basin: Southwest

Water Source: Lost Canyon Creek

Amount Requested: \$26,000 Southwest Basin Account

Matching Funds: \$6,000 cash match by Applicant (15% of total study costs of \$40,000), \$8,000 cash match by Southwestern Water Conservation District (20% of total study costs)

Staff Recommendation:
Staff recommends approval of up to \$26,000 from Southwest Basin Account to fund the study titled: Summit Reservoir and Irrigation Company s - Evaluation of Potential Infrastructure Upgrades.

Water Activity Summary: Currently, the company's largest storage reservoir, Summit Lake, is subject to a reservoir restriction imposed by the Colorado State Engineer's Office (SEO) due to safety issues with the dams, which limits the ability of the company to fully utilize their decreed storage within the reservoir. The restriction, written primarily for safety issues associated with dam and foundation seepage, limits the time period during which the reservoir can be within 1.1 feet of full storage to 21 continuous days of the filling season, resulting in a loss of up to 400 acre-feet of storage capacity at the time of the year when storage is most needed. Additionally, the main filling mechanism for Summit Lake, the Summit Ditch, which diverts flows from Lost Canyon Creek, is currently limited in its flow capacity to about 80 cfs due to hydraulic restrictions which have occurred over the years, a substantial reduction from its decreed diversion right of 135 cfs. Both issues affect the ability of SRIC to deliver irrigation water to downstream shareholders, who typically will receive only 50% of the full water demand for the arable acreage under production in any given year

WSRA Grant funds will be expended to achieve the objectives of the proposed activity, which are as follows:

1. Evaluate the work required and the estimated cost to repair/rehabilitate the dams at Summit Lake to allow for removal of the current reservoir restriction and to address other identified safety deficiencies with the dams.

2. Evaluate the work required and the estimated cost to repair/rehabilitate/upgrade the existing Summit Ditch, and its diversion structure in Lost Canyon, to allow it to convey the full decreed diversion right of 135 cfs.

3. Evaluate the annual impact of the current reservoir restriction on Summit Lake, with respect to the ability of SRIC to utilize its decreed storage and diversion rights to deliver available water to its shareholders. This would include a study of the flow regime in Lost Canyon, the availability of divertible flows, and the timing of diversions and reservoir releases.

Threshold and Evaluation Criteria:

The application meets all four Threshold Criteria.

Funding/Match Summary:

	<u>Cash (%)</u>	<u>Total (%)</u>
WSRA Southwest Basin Account	\$26,000 (15%)	\$26,000 (15%)
Southwestern Water Conservation District	\$8,000 (20%)	\$8,000 (20%)
Summit Reservoir and Irrigation Company	\$6,000 (15%)	\$6,000 (15%)
Total Project Costs	\$40,000	\$40,000

Discussion:

No additional discussion is needed.

Issues/Additional Needs:

No additional issues or needs were identified.

Staff Recommendation:

Staff recommends approval of up to \$26,000 from the Southwest Basin Account for the study titled: Summit Reservoir and Irrigation Company - Evaluation of Potential Infrastructure Upgrades.

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 and Final Deliverable: 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. 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.