

**Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
November 2011 Agenda Item 30.b**

Applicant: Grand Mesa Reservoir Company

Water Activity Name: Lining Outlet Pipe for Grand Mesa Reservoir #6

Water Activity Purpose: Structural Water Project

County: Mesa

Drainage Basin: Gunnison

Water Source: Kannah Creek drainage

Amount Requested: \$19,840 (Gunnison Basin Account)

Matching Funds: \$2,000 Applicant; \$2,160 in-kind

Staff Recommendation
Staff recommends approval of up to \$19,840 from the Gunnison Basin Account to help complete the Lining Outlet Pipe for Grand Mesa Reservoir #6.

Water Activity Summary:

The GMRC owns five reservoirs close to the intersection of Colorado Highway 65 and Lands End Road on top of Grand Mesa (Grand Mesa Reservoirs #6,8,9 and Scales Reservoirs # 1 & 3). Water stored in these reservoirs is used to irrigate hay fields and pasture land, and water stock animals during the late summer and early fall. These reservoirs drain into Kannah Creek which is a tributary of the Gunnison River.

The Grand Mesa Reservoir Company (GMRC) had the outlet pipe of Grand Mesa Reservoir #6 (GM#6) inspected with a video camera last fall (2010) at the request of the state dam engineer. The inspection showed the pipe has exceeded its expected lifetime with slippage breaks at pipe joints and longitudinal cracks in the pipe. This damage warrants its repair along with mitigation in the area immediately adjacent to the pipe to address existing cracks and avoid future structural damage. The mitigation work adjacent to the pipe would be done at the same time the pipe is repaired.

The GMRC plans to use a cured-in-place pipe (CIPP) installed in the outlet pipe of GM#6. Using CIPP for this application is the least expensive way to repair the pipe. By using CIPP to make in situ repairs while the damage is minor, excavation of the pipe can be avoided. Such excavation would result in the temporary loss of 172 acre feet of water storage capacity. GM#6 is upstream of Carson Lake which is the City of Grand Junction's main drinking water supply.

Threshold and Evaluation Criteria

The application/project meets all four Threshold Criteria. No Statewide funds are being requested, therefore the evaluation criteria does not apply.

Discussion:

As identified in the SWSI findings, small agricultural water users often lack the financial ability to adequately address infrastructure needs without financial aid. This project will maintain irrigation efficiency and availability for agricultural use. Both of these are identified in SWSI and the Gunnison Basin's consumptive needs assessments. Specifically, the Basin recognizes the need to improve and maintain existing infrastructure. In addition, this project seeks to maintain the use of a pre-Colorado River Compact (1916) water right. The

proposed project effectively meets the objectives of HB 1177 and the consumptive needs of the Gunnison Basin by rehabilitating existing infrastructure to preserve agricultural water use.

Issues/Additional Needs:

- No Issues or Additional Needs were identified

Staff Recommendation:

Staff recommends approval of up to \$19,840 from the Gunnison Basin Account to help complete the Lining Outlet Pipe for Grand Mesa Reservoir #6.

All products, data and information developed as a result of this grant must be provided to 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 or certified by a professional engineer licensed by the State of Colorado to practice Engineering.