

**Water Supply Reserve Account – Grant and Loan Program**  
**Water Activity Summary Sheet**  
**September 15-17, 2015**  
**Agenda Item 18(e)**

**Applicant & Fiscal Agent:** Grand Valley Water Users Association

**Water Activity Name:** Grand Valley Roller Dam Rehabilitation Phase I;  
Development of the Dam and Canyon Facilities Master Plan

**Water Activity Purpose:** Master Planning

**County:** Mesa

**Drainage Basin:** Colorado

**Water Source:** Colorado River

**Amount Requested/Source of Funds:** \$42,700 Colorado Basin Account (total grant request)

**Matching Funds:** Applicant Match: \$30,600 (cash & in kind) = 42% of the  
total project cost of \$73,300  
(refer to *Funding Summary/Matching Funds* section below)

<b>Staff Recommendation:</b>
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Staff recommends approval of up to \$42,700 from the Colorado Basin Account to help fund the project titled: Grand Valley Water Users Association; Grand Valley Roller Dam Rehabilitation Phase I, Development of the Dam and Canyon Facilities Master Plan
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**Water Activity Summary:** WSRA funds, if approved, will be expended to fund the Grand Valley Roller Dam Rehabilitation Phase I (the Project). The proposed Roller Dam Rehabilitation project addresses the need for rehabilitating and upgrading the Roller Dam and the portion of the Government Highline Canal immediately below the Roller Dam while maintaining the Cameo Call, improving water delivery system operations, capacity and reliability, sustaining the ecological health of the river and preserving the agricultural economy of the Grand Valley. The Roller Dam diverts water into the Highline Canal for irrigation and hydropower purposes under very senior water that collectively make up the “Cameo Call.” These water rights control administration of the Colorado River basin within Colorado. The flows generated by the Cameo Call help support the agricultural economy of the Grand Valley and provide water for recreational activities on the Colorado River and for riparian habitat and aesthetic values along the entire Colorado River corridor. Flows generated by the Cameo Call also assist the state in complying with its obligations under the Colorado River Compact and in maintaining acceptable lake levels in Lake Powell.

Irrigation water is provided to four irrigation entities: Grand Valley Water Users Association (GVWUA) and the Orchard Mesa, Palisade and Mesa County Irrigation Districts, which provide irrigation water to approximately 41,000 acres of land in the Grand Valley. Hydropower water is used to produce hydropower at the Grand Valley Power Plant. Return flows from the power plant return to the Colorado River at the head of the 15-Mile Reach, helping maintain flows in that reach for the endangered fish.

The Roller Dam, constructed in the early 1900's, is in need of extensive upgrading and rehabilitation. In addition, repairs and upgrades to the upper portion of the Highline Canal immediately below the Roller Dam are needed to allow the canal to reliably carry all of the water diverted at the Roller Dam.

#### Objectives:

The Dam and Canyon Facilities Master Plan is the first step in defining the rehabilitation needs. It will:

- identify and prioritize the rehabilitation needs (structural, cosmetic, environmental, etc.),
- develop implementation plans for each prioritized need, specifically addressing the costs, funding opportunities, timeline, and list of potential teaming partners and sponsors.

**Discussion:** The proposed needs assessment aligns with concerns identified in the Colorado BIP with strong links between agriculture and recreation. Additionally, the Colorado BIP presents Theme 2: Agriculture – Sustain, Protect and Promote Agriculture as an important attribute with “the overarching goal to protect and sustain the existing agricultural practices.” The Grand Valley Roller Dam is identified in the Colorado BIP as one of eight Top Projects in the Colorado Basin. Recently the Association received grants from both the CWCB (2015, \$45,000 WSRA Colorado Basin Account Grant) and the Bureau of Reclamation to match the in-kind and cash contributions of the Association to completely update its Water Management Plan (WMP). The objective of the WMP is to prepare a conditional assessment and operational analysis of 50 miles of canal, identify and document water losses, identify priority projects, conduct a benefits analysis, ascertain environmental concerns, determine cost associated with the projects and create a strategic funding plan to implement the priority projects. This will also allow the association to honor commitments made in the Colorado River Cooperative Agreement (CRCA, Section 7, specific to conservation and avoidance of Compact issues). The WMP project will begin by fall 2015 and conclude in early 2017.

**Issues/Additional Needs:** No issues or additional needs have been identified.

**Threshold and Evaluation Criteria:** The application meets all four Threshold Criteria.

**Tier 1-3 Evaluation Criteria:** n/a

#### **Funding Summary/Matching Funds:**

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
GVWUA; Orchard Mesa Irrigation District;			
Mesa County Irrigation District: &			
Palisade Irrigation District	\$5,000	\$25,600 <sup>(1)</sup>	\$30,600
WSRA Colorado Basin Account	\$42,700	n/a	\$42,700
<b>Total</b>	<b>\$47,700</b>	<b>\$25,600</b>	<b>\$73,300</b>

(1) Estimated based upon 32 hours per month for 8 months @ \$50/hour for 1 Association staff member and 1 Orchard Mesa Irrigation District staff member.

**CWCB Project Manager:** Anna Mauss

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.