

**Water Supply Reserve Account – Grant and Loan Program**  
**Water Activity Summary Sheet**  
**March 16-17, 2016**  
**Agenda Item 14(j)**

**Co-Applicants:** Trout Unlimited / American Rivers

**Fiscal Agent:** Trout Unlimited

**Water Activity Name:** Irrigators of Lands in the Vicinity of Kremmling (ILVK) - Upper Colorado River Irrigation and Restoration Project - 2016

**Water Activity Purpose:** Multipurpose

**County:** Grand

**Drainage Basin:** Colorado

**Water Source:** Colorado River

**Amount Requested/Source of Funds:**

\$50,000	Colorado Basin Account
<u>\$415,400</u>	<u>Statewide Account</u>
\$465,400	Total Grant Request

**Matching Funds:**

Basin Account Match (\$50,000) = 10.7% of total grant request (meets 5% min);

Applicant/3<sup>rd</sup> Party Match (\$465,400) = 50% of total project costs (\$930,800)

Basin Account & Applicant Match (\$495,400) = 106% of total grant request

(refer to *Funding Summary/Matching Funds* section)

<b>Staff Recommendation:</b>
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Staff recommends approval of up to \$50,000 from the Colorado Basin Account; and \$415,400 from the Statewide Account to help fund the project titled: Irrigators of Lands in the Vicinity of Kremmling (ILVK) Upper Colorado River Irrigation and Restoration Project – 2016.
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**Water Activity Summary:** WSRA funds, if approved, will be expended to fund the project titled: Irrigators of Lands in the Vicinity of Kremmling (ILVK) Upper Colorado River Irrigation and Restoration Project – 2016. The ILVK Project seeks to restore aquatic habitat and improve irrigation systems along 12 miles of the Colorado River in Grand County, Colorado.

This application seeks funds for the first phase in a long-term, regional effort to restore segments of the Colorado River and agricultural operations impacted by trans-mountain diversions. With support from an array of partners, the goals of the ILVK Project are to implement specific on-the-ground measures that address both irrigation and aquatic habitat issues and demonstrate that a healthy river is capable of providing multiple benefits to sustain agricultural irrigation, aquatic and wildlife habitat, and recreation.

This phase of the project, which is expected to be completed in 2016, follows the original ILVK Upper Colorado River Irrigation and Restoration Assessment Phase 1. The Project 2016 list is based on priority within the ILVK reach.

Funding for 2016 work includes the following:

- Topographic Survey of the river corridor through the entire ILVK project reach
- Yust Family Blue River Assessment (Loback Ditch to Colorado River confluence)
- Blue River irrigation infrastructure emergency repair
- Final engineering design and construction of the Grade Control Riffle to stop head-cut, stabilize river elevations for the McElroy pump systems, and improve aquatic habitat just above the confluence of the Blue and Colorado Rivers
- Bank stabilization and 400 LF new pipe line for ditch system for water delivery out of the Orr #2 irrigation pump
- Engineering, bank stabilization and 1800 LF new pipeline for ditch system for water delivery out of the KB Ditch System
- Engineering, bank stabilization, and habitat improvements on the Petersen Ranch; it includes 3 specific locations where ditch infrastructure is jeopardized based on bank erosion and a habitat project that targets a wide portion of the river to a low flow channel by the construction of a point bar riffle
- Final design engineering, bank stabilization, and habitat improvements on the Bruchez Ranch; it includes design and construction of 2 riffle veins for habitat, a low flow channel and to direct water velocities away from eroding banks; includes design and construction of 1540 LF of bank stabilization using a variety of techniques to study and monitor for progression of ILVK project.

**Discussion:** This project serves multiple purposes and uses, and aligns with Themes 1 and 2 of the Colorado River Basin Implementation Plan: to “protect and restore healthy streams, rivers, lakes, and riparian areas” and to “sustain agriculture.” The ILVK Upper Colorado River Irrigation and Restoration Project is also listed as one of Grand County Region’s top 4 priority projects in the Colorado Basin Implementation Plan.

This project also aligns with several of the critical actions identified in Colorado’s Water Plan.

**D3:** “Provide grants, loans, and technical support to update and improve Colorado’s aging agricultural infrastructure, especially where improvements provide multiple benefits.”

**Previous Funding:** The proposed activity can be considered a continuation of the applicant’s efforts begun in 2013 with a WSRA Colorado Basin Account grant of \$50,000 approved by CWCB in September 2013, of which the applicant completed successfully.

**Issues/Additional Needs:**

- The applicant should provide staff with a detailed monitoring plan that describes geomorphic and vegetative monitoring methodologies.
- The monitoring plan should conform to the CWCB Measurable Results Program’s Standard Operating Procedures for Topographic Survey of Stream Channels.  
[http://cwcb.state.co.us/environment/watershed-protection-restoration/Documents/Survey\\_SOP\\_CWCB.pdf](http://cwcb.state.co.us/environment/watershed-protection-restoration/Documents/Survey_SOP_CWCB.pdf)

**Threshold and Evaluation Criteria:**

The application meets all four Threshold Criteria.

**Tier 1-3 Evaluation Criteria:**

This activity has undergone review and evaluation and staff has determined that it satisfies the Evaluation Criteria. Please refer to WSRA Application for applicant's detailed response.

**Funding Summary/Matching Funds:**

<b><u>Funding Source</u></b>	<b><u>Cash</u></b>	<b><u>In-kind</u></b>	<b><u>Total</u></b>
ILVK Cash Funds	\$465,400	\$0	\$465,400
WSRA Colorado Basin Account	\$50,000	n/a	\$50,000
WSRA Statewide Account	\$415,400	n/a	\$415,400
<b>Total Project Costs</b>	<b>\$930,800</b>	<b>\$0</b>	<b>\$930,800</b>

**CWCB Project Manager:** Chris Sturm

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.