

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

**Applicant & Fiscal Agent:** Central Colorado Water Conservancy District (CCWCD)

**Water Activity Name:** Water Information Dashboards for Improved Efficiency, South Platte Basin and Statewide

**Water Activity Purpose:** Agricultural

**County:** Applicable Statewide

**River Basin:** Applicable Statewide

**River Source:** Applicable Statewide

**Amount Requested/Source of Funds:** \$20,000 South Platte Basin Account  
\$200,000 Statewide Account  
\$220,000 Total grant request

**Matching Funds:** Basin Account Match (\$20,000) = 9.1% of total grant request  
Basin Account & Applicant Match (\$132,200) = 60.1% of total grant request  
Basin Account & Applicant Match (\$132,200) = 39.7% of total project costs (\$332,200). Refer to *Funding Summary/Matching Funds* section.

<b>Staff Recommendation:</b>
Staff recommends approval of up to \$20,000 from the South Platte Basin Account, and \$200,000 from the Statewide Account to help fund the project titled: Water Information Dashboards for Improved Efficiency, South Platte Basin and Statewide.

**Water Activity Summary:** WSRA funds, if approved, will be expended to develop and deliver “Water Information Dashboards” to integrate separate data management and analysis tools, or “modules,” into a single, web-based interface, to support more efficient operations, transparent communication and better water sharing and collaboration. Dashboard “modules” are the reusable programs and functions that can be combined in different ways to make unique Dashboards from a common set of tools. Modules will share a fundamental code base, be based on the same technology, and be non-proprietary. Examples of module functions include:

1. Web pages that combine live data from multiple sources;
2. Web map interfaces for data access and system management;
3. River call data feeds that users can tailor to specific administrative locations;
4. Collaborative water exchange and sharing forums;
5. Mobile device friendly tools for field data entry or system operations;
6. Automated reporting for stakeholders and administrators;
7. Web-based spreadsheet water accounting that links to real-time data sources.

This project will include updating previously developed tools and creating new tools, and delivering a suite of modern, web-based Dashboard modules in a common technology framework. All of the modules created in this project will be made available to users statewide in an open-source

repository. A comprehensive “wish list” of additional Dashboard modules will be developed from a series of working meetings around the state to lay the groundwork for future development to meet the needs of users, various interests and other Basins not directly benefited from this initial project.

The project’s long term vision include a wide range of module functions to support a variety of local, regional and Statewide challenges. This project will focus on meeting current needs of the cash-matching partners in the South Platte Basin, and will capitalize on work already in progress and existing tools in Divisions 1 and 2. As leaders in sustainable water management practices, this work in the South Platte and Arkansas basins can serve as a template for further work. With up-front investment by the CWCB, water users throughout Colorado can have access to custom water management tools that fit very their very specific needs, built from a common store of modular and reusable components.

**Discussion:** Staff believes this effort may evolve into a cost effective and valuable statewide tool that can be utilized by agricultural water users of all sizes to better manage water resources which could lead to additional agricultural, M&I, environmental, and recreational opportunities and benefits.

**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:**

Staff has reviewed and evaluated the applicant’s response to the Statewide Account Evaluation Criteria and has determined that the requirements have been adequately meet. Please refer to WSRA Application for applicant’s detailed response.

**Funding Summary/Matching Funds:**

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
WSRA South Platte Basin Account	\$20,000	n/a	\$20,000
WSRA Statewide Account	\$200,000	n/a	\$200,000
CCWCD	<u>\$35,000</u>	<u>\$77,200</u>	<u>\$112,200</u>
<b>Total Project Costs</b>	<b>\$255,000</b>	<b>\$77,200</b>	<b>\$332,200</b>

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.