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Colorado Water Conservation Board

Water Plan Grant Application

Instructions

To receive funding for a Water Plan Grant, applicant must demonstrate how the project, activity, or process (collectively referred to as “project”) funded by the CWCB will help meet the measurable objectives and critical actions in the Water Plan. Grant guidelines are available on the CWCB website.

If you have questions, please contact CWCB at (303) 866-3441 or email the following staff to assist you with applications in the following areas:

Supply and Demand Gap Projects: Gregory.Johnson@state.co.us

Water Storage Projects: Anna.Mauss@state.co.us

Conservation, Land Use Planning: Kevin.Reidy@state.co.us

Engagement & Innovation Activities: Mara.MacKillop@state.co.us

Agricultural Projects: Brent.Newman@state.co.us

Environmental & Recreation Projects: Linda.Bassi@state.co.us

Applicants interested in submitting an 'Intent to Apply' in the future are encouraged to check here ☐ and fill in all sections with the best information available at the time. Exhibits excluded.

This “Intent to Apply” will help CWCB prioritize Projects that are not ready for fully completed Water Plan Grant Application due to the initial timeframe and deadlines required.

Water Project Summary

Name of Applicant	Colorado River Water Conservation District	
Name of Water Project	Silt Water Conservancy District Agricultural Infrastructure Improvement Project	
CWP Grant Request Amount		\$200,000.00
Other Funding Sources: <u>NRCS Watershed Operations</u> (PL-566)		\$1,500,000.00
Other Funding Sources: <u>USBR CSRP MOA</u>		\$3,000,000.00
Applicant Funding Contribution: <u>Silt Water Conservancy District</u>		\$10,000.00
Total Project Cost (Estimated)		\$4,710,000.00

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Applicant & Grantee Information	
Name of Grantee(s)	Colorado River Water Conservation District
Mailing Address	P.O. Box 1120 / 201 Centennial Street, Suite 200, Glenwood Springs, CO 81602
FEIN	84-6
Organization Contact	Dave Kanzer
Position/Title	Deputy Chief Engineer
Email	dkanzer@crwcd.org
Phone	970-945-8522 Ext. 224 (office) / 970-379-7891 (cell)
Grant Management Contact	Sonja Chavez
Position/Title	Water Resources Specialist
Email	schavez@crwcd.org
Phone	970-945-8522 Ext. 231 (office) / 970-596-4066 (cell)
Name of Applicant (if different than grantee)	Scot Doderio, Silt Water Conservancy District
Mailing Address	120 S 7th St, P.O. Box 8, Silt, CO 81652
Position/Title	President
Email	swcd@rof.net
Phone	(970) 876-2393

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Description of Grantee/Applicant

Provide a brief description of the grantee's organization (100 words or less).

The ***River District*** is a state-chartered water policy entity to be the “appropriate agency for the conservation, use and development of the water resources of the Colorado River,” covering 28% of Colorado. The majority of the state’s portion of the Colorado River Basin is located within its boundaries and more than 65% of the water yield into Lake Powell originates in the CRD.

The SWCD operates and maintains an integrated system of water diversion, collection, storage and distribution facilities under contract to Reclamation and operates and maintains the non-project portion of the irrigation system under contract to Farmers Irrigation Company.

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Type of Eligible Entity (check one)	
	Public (Government): Municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities. Federal agencies are eligible, but only if they can make a compelling case for why a local partner cannot be the grant recipient.
X	Public (Districts): Authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises.
	Private Incorporated: Mutual ditch companies, homeowners associations, corporations.
	Private Individuals, Partnerships, and Sole Proprietors: Private parties may be eligible for funding.
	Non-governmental organizations (NGO): Organization that is not part of the government and is non-profit in nature.
	Covered Entity: As defined in Section 37-60-126 Colorado Revised Statutes .

Type of Water Project (check all that apply)	
X	Study
X	Construction
X	Identified Projects and Processes (IPP)
	Other

Category of Water Project (check all that apply and include relevant tasks)	
X	Supply and Demand Gap Projects - Multi-beneficial projects and those projects identified in basin implementation plans to address the water supply and demand gap. <i>Applicable Exhibit A Task(s):</i>
	Water Storage Projects - Projects that facilitate the development of additional storage, artificial recharge into aquifers, and dredging existing reservoirs to restore the reservoirs' full decreed storage capacity. <i>Applicable Exhibit A Task(s):</i>
X	Conservation and Land Use Planning Projects - Activities and projects that implement long-term strategies for conservation, land use, and drought planning. <i>Applicable Exhibit A Task(s):</i>
	Engagement & Innovation Projects - Activities and projects that support water education, outreach, and innovation efforts. Please fill out the Supplemental Application available on the website. <i>Applicable Exhibit A Task(s):</i>

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X	Agricultural Projects - Projects that provide technical assistance and improve agricultural efficiency. <i>Applicable Exhibit A Task(s):</i> Task 1: Design and implement piping system to stabilize approximately 1000 feet of open, earthen Grass Valley Canal; Task 2: Design and Implement new control, measurement, spill and outlet related structures at Harvey Gap Reservoir and along the Grass Valley Canal; Task 3: Incorporate remote controls (Supervisory Control and Data Acquisition) at critical diversion and delivery locations; and Task 4: Improve / rehabilitate large diameter siphons along the Grass Valley Canal
	Environmental & Recreation Projects – Projects that promote watershed health, environmental health, and recreation. <i>Applicable Exhibit A Task(s):</i>
Other	Explain:

Location of Water Project	
Please provide the general county and coordinates of the proposed project below in decimal degrees . The Applicant shall also provide, in Exhibit C, a site map if applicable.	
County/Countries	Garfield County
Latitude	39°32'47"N
Longitude	107°39'7"W

Water Project Overview
Please provide a summary of the proposed water project (200 words or less). Include a description of the project and what the CWP Grant funding will be used for specifically (e.g., studies, permitting process, construction). Provide a description of the water supply source to be utilized or the water body affected by the project, where applicable. Include details such as acres under irrigation, types of crops irrigated, number of residential and commercial taps, length of ditch improvements, length of pipe installed, and area of habitat improvements, where applicable. If this project addresses multiple purposes or spans multiple basins, please explain. The Applicant shall also provide, in Exhibit A, a detailed Statement of Work, Budget, Other Funding Sources/Amounts and Schedule.

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Water Project Overview

The project will upgrade the Grass Valley Canal, a critical water conveyance structure by placing approximately 1000 feet of existing open, unstable, earthen portions in closed HDPE pipe and by upgrading aging siphons resulting in significant water quantity and quality benefits. Currently it is estimated to lose approximately 250 acre-feet/year to groundwater seepage, loading an estimated 60 tons/year of salt and 10 lbs/year of selenium to the river basin.

Additionally, this project will upgrade critical infrastructure to control, store and convey water resources to and through Harvey Gap Reservoir by improving inflow/outflow features. Harvey Gap Reservoir is an off-channel reservoir that obtains its water supply from the Grass Valley feeder canal diverted from East Rifle Creek. It is estimated that 1000 acre-feet may be saved and/or retimed using the upgraded conveyance and storage facilities.

Together these two 100-year old components make up more than half of the Silt Project, and without this project an estimated 6120 irrigated acres will be adversely impacted.

This project is part of a multi-purpose funding plan that will increase system efficiency, reducing losses, improving stream flow and riparian health in the local streams and the endangered species critical habitat of the Colorado River by reducing system losses, and reducing salt and selenium loading from the district.

Measurable Results

To catalog measurable results achieved with the CWP Grant funds, please provide any of the following values as applicable:

	New Storage Created (acre-feet)	
	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive	
6000 AF	Existing Storage Preserved or Enhanced (acre-feet)	
	Length of Stream Restored or Protected (linear feet)	
1000 AF	Efficiency Savings (indicate acre-feet/year OR dollars/year)	
	Area of Restored or Preserved Habitat (acres)	
	Quantity of Water Shared through Alternative Transfer Mechanisms	
3,500	Number of Coloradans Impacted by Incorporating Water-Saving Actions into Land Use Planning	
Water Quality Improvements	Other	This project will reduce deep percolation and groundwater seepage, thereby reducing the loading of salt and selenium to the Elk Creek and Colorado Rivers.

Water Project Justification

Provide a description of how this water project supports the goals of [Colorado's Water Plan](#), the most recent [Statewide Water Supply Initiative](#), and the applicable Roundtable [Basin Implementation Plan](#) and

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Water Project Justification

[Education Action Plan](#). The Applicant is required to reference specific needs, goals, themes, or Identified Projects and Processes (IPPs), including citations (e.g. document, chapters, sections, or page numbers).

The proposed water project shall be evaluated based upon how well the proposal conforms to Colorado's Water Plan Framework for State of Colorado Support for a Water Project (CWP, Section 9.4, pp. 9-43 to 9-44;)

This project helps to satisfy the goals of Colorado's Water Plan, and the applicable Roundtable Basin Implementation Plan and SWSI, by working to preserve and sustain irrigated agriculture in the Colorado River mainstem basin (helping to reduce significant agricultural shortages by minimizing non-beneficial seepage and loss thereby helping to meet identified supply gap), protecting agricultural viability by increasing efficiency and by supporting the associated regional economy it supports (including strong environmental and robust recreational industry – hunting/fishing).

This increased efficiency will address the Colorado River Basin Implementation Plan (CRBIP) by addressing critically important themes identified in section 2:

- Assistance in addressing regulatory requirements under the Clean Water and Endangered Species Acts by reducing selenium loading and increasing conservation, thereby improving critical habitat with increased quantity and improved quality;
- Reducing agricultural water shortages;
- May help increase education amongst Colorado River agricultural community;
- Maintain existing irrigated agricultural acreage;
- Support conservation through reduced headgate demand due to reduced seepage and loss

Because the Grass Valley Canal provides water the majority of their service area and conveys project water to Harvey Gap, a critical storage reservoir, these items have been identified as the top priority for immediate attention. Any service disruption related to the Grass Valley Canal would be devastating to the Silt WCD and their members.

Related Studies

Please provide a list of any related studies, including if the water project is complementary to or assists in the implementation of other CWCB programs.

In 2014 a comprehensive review of the SWCD was completed by Reclamation under the direction of the River District and CWCB. This study identified the top priorities of the SWCD and created a series of feasibility level cost estimates for the identified top 10 priorities.

Subsequently, SWCD obtained approvals by Reclamation to utilize MOA revenues to implement some project improvements. Specifically, a total of \$5.5 million has been approved for separate pumping plant upgrades and water conveyance efficiency improvements on the federally-owned Silt Project. To date, design and engineering specifications have been completed and construction of these improvements are slated for fall of 2017.

This proposed CWP project endeavors to leverage these investments by bringing additional funding under the CWP and the NRCS Watershed Protection Act funding to help address critical non-federal infrastructure needs.

Additional study, design and cost estimation is needed to properly address the top priority projects to determine the preferred approach to reduce significant uncertainty.

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Previous CWCB Grants, Loans or Other Funding

List all previous or current CWCB grants (including WSRF) awarded to both the Applicant and Grantee. Include: 1) Applicant name; 2) Water activity name; 3) Approving RT(s); 4) CWCB board meeting date; 5) Contract number or purchase order; 6) Percentage of other CWCB funding for your overall project.

There are no outstanding grants for this project, however, the SWCD has an outstanding loan for a previous construction project. This loan pre-dates the HB-1177 Roundtable process and the Colorado Water Plan.

2009

Grant: CWCB
\$25,000

May 1, 2000

CWCB Loan \$100,000
Paid in Full

11/1/2003

CWCB Loan: \$1,074,384.85
Unpaid Principal: \$918,064.49
Maturity Date: 10/1/2039

Taxpayer Bill of Rights

The Taxpayer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect your application.

It is the intent of the applicant to utilize the River District as the fiscal manager of these CWP funds. It is anticipated that both the River District and the SWCD, which has been 'de-Bruced' will have sufficient TABOR capacity to overcome typical revenue limitations.

At the time of contracting, the project sponsors will determine the best approach to ensure that there are no TABOR limitations.

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Submittal Checklist	
X	I acknowledge the Grantee will be able to contract with CWCB using the Standard Contract .
Exhibit A	
X	Statement of Work ⁽¹⁾
X	Budget & Schedule ⁽¹⁾ (<i>Spreadsheet</i>)
X	Letters of Matching and/or Pending 3 rd Party Commitments ⁽¹⁾
Exhibit C	
X	Map (if applicable) ⁽¹⁾
X	Photos/Drawings/Reports
X	Letters of Support (Support letter from Basin Roundtable encouraged)
	Certificate of Insurance (General, Auto, & Workers' Comp.) ⁽²⁾
	Certificate of Good Standing with Colorado Secretary of State ⁽²⁾
	W-9 ⁽²⁾
	Independent Contractor Form ⁽²⁾ (If applicant is individual, not company/organization)
Engagement & Innovation Grant Applicants ONLY	
	Engagement & Innovation Supplemental Application ⁽¹⁾

(1) Required with application.

(2) Required for contracting. While optional at the time of this application, submission can expedite contracting upon CWCB Board approval.

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Exhibit A: Statement of Work, Budget, Other Funding Sources/Amounts and Schedule

Summary Statement of Work by Task(s), the full Scope of Work as submitted to NRCS (along with Letters of Support and additional project details) is included as part of Exhibit C :

Task 1: Design and implement piping system to stabilize approximately 1000 feet of open, earthen Grass Valley Canal;

Task 2: Design and Implement new control, measurement, spill and outlet related structures at Harvey Gap Reservoir and along the Grass Valley Canal;

Task 3: Incorporate remote controls (Supervisory Control and Data Acquisition) at critical diversion and delivery locations; and

Task 4: Improve / rehabilitate large diameter siphons along the Grass Valley Canal

Budget Detail for Statement of Work (originally submitted to NRCS for PL-566 Funding)

Estimated Project costs to complete planning, design and construction:

Project Costs	Financial Assistance	Technical Assistance
Materials & Installation	\$ 3,574,194.00	
Habitat Replacement		\$ 192,357.00
Mobilization		\$ 208,350.00
Construction Mgt.		\$ 396,615.00
Engineering		\$ 549,590.00
Project Specific NEPA		\$ 164,877.00
Cultural Resources		\$ 54,959.00
PL 566 Plan EA		\$ 300,000.00
Overhead		\$ 54,959.00
Subtotals:	\$ 3,574,194.00	\$ 1,921,707.00
Funding Sources	Amount %	
NRCS PL 83-566	\$ 2,280,900.00	41.50%
Colorado CWPIG	\$ 200,000.00	3.60%
USBR CRSP MOA	\$ 3,000,000.00	54.60%
CRWCD	\$ 5,000.00	0.10%
SWCD	\$ 10,000.00	0.20%
Total Project:	\$ 5,495,900.00	100%

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Exhibit A: Statement of Work, Budget, Other Funding Sources/Amounts and Schedule (continued)

Project Schedule:

Task	Description	Q1 2018	Q2 2018	Q3 2018	Q4 2018	Q1 2019	Q2 2019	Q3 2019	Q4 2019	Q1 2020	Q2 2020	Q3 2020	Q4 2020
1	Design and implement piping system to stabilize approximately 1000 feet of open, earthen Grass Valley Canal								X	X	X	X	X
2	Design and implement outlet related structures at Harvey Gap Reservoir	X	X	X	X	X	X	X	X				
3	Incorporate remote controls (Supervisory Control and Data Acquisition) at critical diversion and delivery locations								X	X	X	X	X
4	Improve / rehabilitate large diameter siphons along the Grass Valley Canal					X	X	X	X	X			

Exhibit C – Maps, Drawings, Letters

Please find attached the following:

- 1.) FIGURE 1: General map of the Silt WCD service improvements area;
- 2.) FIGURE 2: Preliminary Engineering Drawings (Task 1)
- 3.) FIGURE 3: Preliminary Engineering Drawings (Task 2)
- 4.) Support Letter from R. Eric Kuhn, General Manager, Colorado River District
- 5.) Original NRCS Request for Funding Support – includes additional Letters of Support and Statement of Work Details
- 6.) Letter of Support – Colorado River Roundtable