

Colorado Water Conservation Board

Water Plan

Water Project Summary		
Name of Applicant	Blue River Valley Ranch Lakes Association	
Name of Water Project	Blue River Valley Ranch Lakes Association Smart Water Meter Installation	
Grant Request Amount	\$235,271.00	
Primary Category	\$235,271.00	
Conservation & Land Use Planning		
Total Applicant Match	\$25,000.00	
Applicant Cash Match		
Applicant In-Kind Match	\$25,000.00	
Total Other Sources of Funding	\$235,271.00	
SRF/CWPDA	\$235,271.00	
Total Project Cost	\$495,542.00	

Applicant & Grantee Information			
Name of Grantee: Blue River Valley Ranch Lakes Asso Mailing Address: PO Box 31 Silverthorne CO 80498	ciation		
Organization Contact: Bruce Chameroy Position/Title: HOA Trustee Phone: 303-947-6698	Email: bhchameroy@yahoo.com		
Organization Contact - Alternate: Pete Rubin Position/Title: President Phone: 216-440-2073	Email: pete44r@gmail.com		
Grant Management Contact: Bruce Chameroy Position/Title: HOA Trustee Phone: 303-947-6698	Email: bhchameroy@yahoo.com		
Grant Management Contact - Alternate: Pete Rubin Position/Title: President Phone: 216-440-2073	Email: pete44r@gmail.com		

Description of Grantee/Applicant

Blue River Valley Ranch Lakes Association has an application submitted for SFR loan funding for water system improvements, including a storage tank, a new well, emergency interconnect and individual service meters. We would like to apply for grant funding for the installation of water meters to encourage water conservation. There are currently no individual meters in the water system.

Type of Eligible Entity

- □ Public (Government)
- Public (District)
- Public (Municipality)
- Ditch Company
- Private Incorporated
- Private Individual, Partnership, or Sole Proprietor
- Non-governmental Organization
- Covered Entity
- Other

Category of Water Project

Agricultural Projects
Developing communications materials that specifically work with and educate the agricultural community on
headwater restoration, identifying the state of the science of this type of work to assist agricultural users
among others.
Conservation & Land Use Planning
Activities and projects that implement long-term strategies for conservation, land use, and drought planning.
Engagement & Innovation Activities
Activities and projects that support water education, outreach, and innovation efforts. Please fill out the
Supplemental Application on the website.
Watershed Restoration & Recreation
Projects that promote watershed health, environmental health, and recreation.
Water Storage & Supply
Projects that facilitate the development of additional storage, artificial aquifer recharge, and dredging
existing reservoirs to restore the reservoirs' full decreed capacity and Multi-beneficial projects and those

projects identified in basin implementation plans to address the water supply and demand gap.

Location of Water Project

39.751729 -104.992107 Precise coordinates: Project coordinates are readily definable and precisely define the
location of the project Blue River Valley Ranch Lakes Association owns the tributary well which is the domestic water supply for the 46 residences in the association. The well was decreed in 1973 for municipal purposes with an appropriation date of November 1, 1962.
Colorado Summit 36-Blue River Basin

Water Project Overview

Major Water Use Type
Type of Water Project
Scheduled Start Date - Design
Scheduled Start Date - Construction
Description

Municipal Design & Construction 6/1/2023 5/1/2026

Blue River Valley Ranch Lakes Association has been approved for SFR loan funding for water system improvements; including a storage tank, a new well, fire hydrants and individual service line curb stops and water

meters. This application is for grant funding for the installation of smart water meters to provide a means to bill for consumption, encourage water conservation, detect system losses and isolate service line leaks. There are currently no individual meters in the water distribution system.

Measurable	Results
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New Storage Created (acre-feet)

New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive Existing Storage Preserved or Enhanced (acre-feet)

New Storage Created (acre-feet)

Length of Stream Restored or Protected (linear feet)

Length of Pipe, Canal Built or Improved (linear feet)

\$2,000 Efficiency Savings (dollars/year)

Efficiency Savings (acre-feet/year)

Area of Restored or Preserved Habitat (acres)

Quantity of Water Shared through Alternative Transfer Mechanisms or water sharing agreement (acre-feet)

30,500 Number of Coloradans Impacted by Incorporating Water-Saving Actions into Land Use Planning115 Number of Coloradans Impacted by Engagement Activity

Other

Installing smart water meters will provide BRVRLA the ability to determine and correct water system losses, encourage conservation and reduce system consumption which will ultimately preserve the Blue River Basin alluvium.

Water Project Justification

The smart water meter installation project is an essential part of the broader domestic (potable) water system improvement initiative, as it facilitates precise water usage tracking and helps reduce water waste.

This project aligns with the Colorado Water Plan by addressing key goals, themes and objectives. Specifically, Section 4 of Volume1 for the Colorado Basin Theme #6 to encourage a high Level of basin wide conservation. The key efficiency and conservation measures of this project will include:

- Radio (cellular) read meters, which can detect leakage or red flag water usage
- Leak detection and correction programs
- Water loss tracking
- Increasing block rate structures (tiered rates), which encourage conservation

• Voluntary and/or mandatory outdoor watering restrictions (often with increasing restrictions triggered by drought or water supply conditions)

- Limiting potable water use for outside irrigation
- Education and outreach

The installation of individual smart water meters will provide BRVRLA the tools to quickly detect leaks and alert the system and the customer of high water usage, helping to reduce water bills and prevent damage. Individual curb stops will allow for quick isolation of service lines, facilitating repairs without impacting the entire distribution system, thus ensuring consistent water supply and reducing operational costs.

Installing individual service line water meters will enable BRVRLA to use the American Water Works Association (AWWA) Water Loss Audit software program to compare total water production with metered usage. This will allow for tracking system losses and help determine when distribution system repairs and replacements are

necessary.

The installation of individual water meters will enable BRVRLA to bill customers based on their consumption through a tiered rate structure. This will involve charging higher rates for increased usage levels, thereby promoting conservation. Following the installation of the meters and subsequent analysis of consumption data, a tiered rate structure will be developed. This structure will then be presented to BRVRLA for approval and implementation.

BRVRLA has a separate irrigation water right available for outside irrigation. By installing individual water meters on the potable water system, we can track and bill for usage. This will encourage the use of the available irrigation water right through voluntary or mandatory watering restrictions.

The project, once completed, will promote water efficiency by encouraging the installation of water-efficient fixtures. It aims to enhance water conservation planning efforts through the detection of excessive water usage within households. The initial stage involves the installation of individual water meters, which is fundamental for implementing water conservation and efficiency measures, as well as facilitating water loss and drought planning programs. Following the installation of these meters, local water conservation, efficiency, and drought management plans can be effectively executed.

The water system improvements are based in part on recurring recommendations from the CDPHE Sanitary Survey to install individual water meters.

Related Studies

A Project Needs Assessment was completed by Merrick & Company Engineering Firm and submitted to CDPHE Drinking Water Revolving Fund program.

Taxpayer Bill of Rights

N/A