

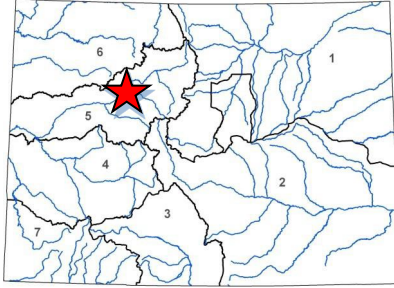


Bolts Lake Reservoir Preliminary Design Eagle River Water and Sanitation District

March 2023 Board Meeting

Water Plan Grant Application

Lat: 39.557000
Long: -106.404000



LOCATION

County: Eagle

Drainage Basin: Colorado

DETAILS

Total Project Cost:	\$1,319,000
Water Plan Grant Request:	\$250,000
Recommended Amount:	\$250,000
Other CWCB Funding:	\$0
Other Funding Amount:	\$0
Applicant Match:	\$1,069,000
Project Type:	Design/Engineering
Project Category:	Storage
Measurable Result:	1,210 ac-ft new storage reservoir

Eagle River Water & Sanitation District seeks funding for preliminary designs and permitting for a dam and reservoir at the historic Bolts Lake Reservoir site in Minturn, Colorado, and developing a gravity feed pipeline delivery system from the Eagle River and from Cross Creek to fill the Bolts Lake Reservoir. Bolts Lake is an off-channel reservoir site that would store up to 1,210 acre-feet of water diverted from the Eagle River and/or Cross Creek.

This project will provide additional in-basin storage in the Eagle River Valley to meet the water supply needs of the Towns of Avon, Minturn, and Vail, and the communities of Arrowhead, Beaver Creek, Bachelor Gulch, Berry Creek, Cordillera, Eagle-Vail, Edwards, and other surrounding areas in unincorporated Eagle County served by the Eagle River Water & Sanitation District and Upper Eagle River Water Authority. The reservoir increases the reliability and resiliency of the District and Authority's water supply to adapt to a changing climate by achieving the water supply planning goal of developing of an in-basin strategic reserve, addresses water scarcity in the headwaters of the Colorado River Basin and will provide recreational opportunities in the Eagle River Valley.



Water Plan Support: Action Areas-Vibrant Communities- Strategic Storage; BIP IPP- Bolts Lake Reservoir Redevelopment

WPG Request: 19%

Matching Funds: Eagle River Water & Sanitation District: \$969,000 cash, \$100,000 in kind

Funding Recommendation: Staff recommends Board approval of \$250,000 to the Eagle River Water & Sanitation District for the Bolts Lake Reservoir Preliminary Design through Water Storage and Supply category.



COLORADO

Colorado Water
Conservation Board

Department of Natural Resources

Colorado Water Conservation Board

Water Plan

Water Project Summary

Name of Applicant	Eagle River Water and Sanitation District
Name of Water Project	Bolts Lake Reservoir Preliminary Design
Grant Request Amount	\$250,000.00
Primary Category	\$250,000.00
<i>Water Storage & Supply</i>	
Total Applicant Match	\$1,069,000.00
<i>Applicant Cash Match</i>	\$969,000.00
<i>Applicant In-Kind Match</i>	\$100,000.00
Total Other Sources of Funding	\$0.00
Total Project Cost	\$1,319,000.00

Applicant & Grantee Information

Name of Grantee: Eagle River Water and Sanitation District
Mailing Address: 846 West Forest Road Vail CO 81657
FEIN: 593,762

Organization Contact: Jason Cowles
Position/Title: Director of Engineering and Water Resources
Phone: 9704457516
Email: jcowles@erwsd.org

Organization Contact - Alternate: Tim Friday
Position/Title: Planning & Water Resources Manager
Phone: 9707638983
Email: tfriday@erwsd.org

Grant Management Contact: Jason Cowles
Position/Title: Director of Engineering and Water Resources
Phone: 9704457516
Email: jcowles@erwsd.org

Grant Management Contact - Alternate: Tim Friday
Position/Title: Planning & Water Resources Manager
Phone: 9707638983
Email: tfriday@erwsd.org

Description of Grantee/Applicant

ERWSD provides water and wastewater services.

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

Latitude	39.557000
Longitude	106.404000
Lat Long Flag	Reservoir location: Coordinates based on location of reservoir
Water Source	Eagle River and Cross Creek
Basins	Colorado
Counties	Eagle
Districts	37-Eagle River Basin

Water Project Overview

Major Water Use Type	Municipal
Type of Water Project	Design / Engineering
Scheduled Start Date - Design	9/1/2022
Scheduled Start Date - Construction	5/3/2027
Description	<p>This project consists of designing, permitting, and constructing a dam and reservoir at the historic Bolts Lake Reservoir (BLR) site in Minturn, Colorado, as well as developing a gravity feed pipeline delivery system from the Eagle River and from Cross Creek to fill the Bolts Lake Reservoir. This reservoir that will provide critical in-basin water storage to the District's and Authority's portfolio of water resources. Once constructed, the reservoir will improve the resiliency of our community's water supply as we adapt to the impacts of a changing climate, and it will provide a water supply for important community land use initiatives such as workforce housing.</p>

Measurable Results

1,210	New Storage Created (acre-feet) New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive Existing Storage Preserved or Enhanced (acre-feet)
1,210	New Storage Created (acre-feet) Length of Stream Restored or Protected (linear feet) 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) Number of Coloradans Impacted by Incorporating Water-Saving Actions into Land Use Planning
50,000	Number of Coloradans Impacted by Engagement Activity
Other	Excess excavation spoils from reservoir construction would be utilized to further remediate portions of the Eagle Mine Superfund Site.

Water Project Justification

This project will provide the following benefits:

1. Provide additional in-basin storage in the Eagle River Valley to meet the water supply needs of the Towns of Avon, Minturn, and Vail, and the communities of Arrowhead, Beaver Creek, Bachelor Gulch, Berry Creek, Cordillera, Eagle-Vail, Edwards and other surrounding areas in unincorporated Eagle County served by the Eagle River Water & Sanitation District and Upper Eagle River Water Authority.
2. Increase the reliability and resiliency of the District and Authority's water supply to adapt to a changing climate by achieving the water supply planning goal of developing of an in-basin strategic reserve equal to ten percent (10%) of the District and Authority's annual water demands.
3. Reinforce the ability of the District, the Authority, and the Town of Minturn to meet CWCB minimum instream flow requirements decreed in water court case nos. 78W3796, 80CW0124, and 80CW0126.
4. Address water scarcity in the headwaters of the Colorado River Basin.
5. Provide recreational opportunities in the Eagle River Valley.

Related Studies

Bolts Lake Reservoir Feasibility Study

Taxpayer Bill of Rights

TABOR does not apply to the District because it was de-Bruced through an election process in 2014.