

**Water Supply Reserve Account – Grant and Loan Program**  
**Water Activity Summary Sheet**  
**March 21-22, 2018**  
**Agenda Item 25(j)**

**Applicant & Program Sponsor:** Parkville Water District

**Water Activity Name:** Mountain Lake Emergency Spillway Rebuild

**Water Activity Purpose:** Implementation

**County:** Lake County

**Drainage Basin:** Arkansas

**Water Source:** Mountain Lake

**Amount Requested/Source of Funds:** \$6,681 Arkansas River Basin Account  
\$66,814 Statewide Account  
\$73,495

**Matching Funds:** Basin Account Match (\$6,681) = 200% of Statewide Account request (Meets 10% min);  
Applicant's In-kind Match (\$38,180) = 57.1% of Statewide Account request (Meets 25% min.);  
Total Match (Basin & Applicant Match of \$50,000 = 67% of Statewide Account request (meets 50% min). (refer to *Funding Summary/Matching Funds* section)

<b>Staff Recommendation:</b>
Staff recommends approval of up to \$6,681 from the Arkansas River Basin Account and \$66,814 from the Statewide account to help fund the project titled: Mountain Lake Emergency Spillway Rebuild

**Water Activity Summary:**

If funded, the objectives of this project are to:

- Rebuild and repair the existing spillway;
- Successfully construct the control wall, riprap end wall and discharge channel;
- Develop erosion control and environmental rehabilitation/ revegetation;
- Eliminate classification the dam has as a “Significant Hazard” and
- Provide protection for Lake County residents; and secure storage for domestic and irrigation water resources in Lake County

The Mountain Lake dam was originally constructed in 1879 and subsequently rebuilt and enlarged in 1904. None of the original concrete structure exists. The concrete spillway structure in place now has deteriorated and lacks the ability to prevent erosion to the dam that could result from a sudden spring runoff or a large mountain storm event.

This dam is classified as a “Significant Hazard Dam” by the State Engineers Office due to population in the flood path of this reservoir. The current alignment of the spillway ditch is also a hazard as it is parallel to and adjacent to the toe of the dam (10’ from toe). The current spillway ditch is also unlined and has no riprap erosion protection. Mountain Lake Reservoir holds 122-acre feet of water, which is approximately 40% of the raw water storage for the City of Leadville and areas of Lake County. This lake along with the nearby Evans Gulch #2 Reservoir, acts as a reserve supply of water for the Parkville Water District.

**Discussion:** This project is consistent with the measurable objects set forth in the Colorado Water Plan (Storage and Municipal Supply Gap) by securing and rehabilitating storage facilities and protecting water supplies. A loss of this storage would result in the State Engineers Office requiring level restrictions and which would increase the municipal supply gap.

This project also meets the identified Arkansas Basin Implementation Plan’s objectives for rehabilitating storage vessels and securing the municipal gap by rehabilitating the spillway and securing storage for municipal supplies.

**Issues/Additional Needs:** None.

**Eligibility Requirements:** The application meets requirements of all eligibility components: General Eligibility, Entity Eligibility, Water Activity Eligibility, and Eligibility Based on Match Requirements.

**Evaluation Criteria:** This activity has undergone review and staff has determined it satisfies the Evaluation Criteria outlined in Colorado’s Water Plan, Section 9.4. Please refer to Basin Roundtable Chair’s Recommendation Letter and the Application for a detailed response.

**Funding Summary/Matching Funds:**

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
Parkville Water District	\$31,499	\$0	\$31,499
WSRF Statewide Account	\$66,814	n/a	\$66,814
WSRF Arkansas Basin Account	\$6,681	n/a	\$6,681

<b>Total Project Costs</b>	<b>\$104,994</b>	<b>\$0</b>	<b>\$104,994</b>
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**CWCB Project Manager:** Ben Wade

# Arkansas Basin Roundtable

January 10, 2018

Via Electronic Mail: [ben.wade@state.co.us](mailto:ben.wade@state.co.us)

Mr. Ben Wade  
Colorado Water Conservation Board  
1313 Sherman Street, Room 721  
Denver, CO 80203

Re: Water Supply Reserve Fund Grant Application: Parkville Water District – Mountain Lake Emergency Spillway Rebuild

Dear Ben:

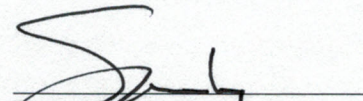
At its January 10, 2018 meeting, the Arkansas Basin Roundtable (ABRT) approved the Parkville Water District – Mountain Lake Emergency Spillway Rebuild project grant application for \$6,681 in Basin Funds and \$66,814 in Statewide Funds. The Applicant is providing \$31,499 in matching funds and in-kind contributions. There were no dissenting opinions expressed in the consensus decision. Regarding the Colorado Water Plan, this project directly supports Objective A., Supply-Demand Gap: *Use a grassroots approach to formulate projects and methods that avoid some of the undesirable outcomes of the supply-demand gaps.* Under Objective E., Storage, this project also supports: *Implementation of BIP-identified multipurpose projects and methods, taking into consideration locally identified geographic and seasonal gaps.*

Parkville Water District is the main water purveyor in Lake County, serving Leadville and the surrounding vicinity. The Mountain Lake Reservoir was constructed in 1879. Based on the presence of residents located in the drainage below, the impoundment structure has now been classified as a “Significant Hazard Dam” by the State Engineers Office.

One of the measurable objectives in the Arkansas Basin Implementation Plan is to preserve existing storage facilities as we pursue development of 70,000 acre-feet of additional storage capacity. Approval of this grant will further that objective and avoid undesirable outcomes that may result from a large storm events above the reservoir.

Should you have any questions or concerns, please feel free to contact me either by telephone, 719-742-6164, or by email, [sandy@white-jankowski.com](mailto:sandy@white-jankowski.com).

With warm regards

  
Michael D. (Sandy) White  
Chair

Copy via email: Applicant; Mr. Ben Wade; ABRT Executive Committee





Last Update: May 19, 2017

## Colorado Water Conservation Board

### Water Supply Reserve Fund Grant Application

#### Instructions

All WSRF grant applications shall conform to the current [2016 WSRF Criteria and Guidelines](#).

To receive funding from the WSRF, a proposed water activity must be approved by a Roundtable(s) **AND** the Colorado Water Conservation Board (CWCB). The process for Roundtable consideration and recommendation is outlined in the 2016 WSRF Criteria and Guidelines. The CWCB meets bimonthly according to the schedule on page 2 of this application.

If you have questions, please contact the current CWCB staff Roundtable liaison:

#### Arkansas

Ben Wade  
[ben.wade@state.co.us](mailto:ben.wade@state.co.us)  
303-866-3441 x3238

#### Gunnison | North Platte | South Platte | Yampa/White

Craig Godbout  
[craig.godbout@state.co.us](mailto:craig.godbout@state.co.us)  
303-866-3441 x3210

#### Colorado | Metro | Rio Grande | Southwest

Megan Holcomb  
[megan.holcomb@state.co.us](mailto:megan.holcomb@state.co.us)  
303-866-3441 x3222

#### WSRF Submittal Checklist (Required)

	I acknowledge this request for funding was recommended for CWCB approval by the sponsoring Basin Roundtable(s).
X	I acknowledge I have read and understand the <a href="#">2016 WSRF Criteria and Guidelines</a> .
X	I acknowledge the Grantee will be able to contract with CWCB using the <a href="#">Standard Contract</a> . <sup>(1)</sup>
Exhibit A	
X	<a href="#">Statement of Work</a> <sup>(2)</sup> (Word – see Exhibit A Template)
X	<a href="#">Budget &amp; Schedule</a> <sup>(2)</sup> (Excel Spreadsheet – see Exhibit A Template)
	Letters of Matching and/or Pending 3 <sup>rd</sup> Party Commitments <sup>(2)</sup>
Exhibit C	
	Map <sup>(2)</sup>
	Photos/Drawings/Reports
	Letters of Support
	Certificate of Insurance <sup>(3)</sup> (General, Auto, & Workers' Comp.)
Contracting Documents	
	Certificate of Good Standing <sup>(3)</sup>
	W-9 <sup>(3)</sup>
	Independent Contractor Form <sup>(3)</sup> (If applicant is individual, not company/organization)
	Electronic Funds Transfer (ETF) Form <sup>(3)</sup>

(1) Click "Grant Agreements". For reference only/do not fill out or submit/required for contracting

(2) Required with application if applicable.

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



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Schedule		
CWCB Meeting	Application Submittal Dates	Type of Request
January	December 1	Basin Account; BIP
March	February 1	Basin/Statewide Account; BIP
May	April 1	Basin Account; BIP
July	June 1	Basin Account; BIP
September	August 1	Basin/Statewide Account; BIP
November	October 1	Basin Account/BIP

Desired Timeline	
Desired CWCB Hearing Month:	March 2018
Desired Notice to Proceed Date:	May 2018

Water Activity Summary		
Name of Applicant	Parkville Water District	
Name of Water Activity	Mountain Lake Emergency Spillway rebuild	
Approving Roundtable(s)		Basin Account Request(s) <sup>(1)</sup>
Arkansas Basin Roundtable		\$6,681
Basin Account Request Subtotal		
Statewide Account Request <sup>(1)</sup>		\$66,814
Total WSRF Funds Requested (Basin & Statewide)		\$73,495
Total Project Costs		\$104,994

(1) Please indicate the amount recommended for approval by the Roundtable(s)



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Grantee and Applicant Information	
Name of Grantee(s)	Parkville Water District
Mailing Address	2015 Poplar Street
FEIN	840537460
Grantee's Organization Contact <sup>(1)</sup>	Greg Teter
Position/Title	General Manager
Email	<a href="mailto:gteter@parkvillewater.org">gteter@parkvillewater.org</a>
Phone	719-486-1449
Grant Management Contact <sup>(2)</sup>	Francine Quinn
Position/Title	Office Manager
Email	<a href="mailto:fquinn@parkvillewater.org">fquinn@parkvillewater.org</a>
Phone	719-486-1449
Name of Applicant (if different than grantee)	
Mailing Address	
Position/Title	
Email	
Phone	

(1) Person with signatory authority

(2) Person responsible for creating reimbursement invoices (Invoice for Services) and corresponding with CWCB staff.

Description of Grantee
Provide a brief description of the grantee's organization (100 words or less).
<p>Parkville Water District is a Colorado Special District, drinking water only utility. Parkville serves water to all of the City of Leadville and the surrounding unincorporated areas of Lake County, to a population of about 5000. Parkville was formed as Colorado Special District in 1964 taking over ownership and operation of the water system from the Leadville Water Company, a commercial utility, in 1965. Much of the inherited infrastructure dates back to the 1800's and the early mining days of Leadville, giving us an unending list of capital projects. We operate and maintain three storage reservoirs and dams, five well stations, one surface water treatment plant, two finished water storage tanks and about 35 miles of transmission and distribution pipelines. Parkville currently has eight employees including field crew, plant operators and office staff. We are Board managed with an elected five-member Board.</p>



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Type of Eligible Entity (check one)	
	<b>Public (Government):</b> 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	<b>Public (Districts):</b> authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises
	<b>Private Incorporated:</b> mutual ditch companies, homeowners associations, corporations
	<b>Private Individuals, Partnerships, and Sole Proprietors:</b> are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
	<b>Non-governmental organizations:</b> broadly, any organization that is not part of the government
	<b>Covered Entity:</b> as defined in <a href="#">Section 37-60-126 Colorado Revised Statutes</a>

Type of Water Activity (check one)	
	Study
X	Implementation

Category of Water Activity (check all that apply)		
	Nonconsumptive (Environmental)	
	Nonconsumptive (Recreational)	
	Agricultural	
X	Municipal/Industrial	
	Needs Assessment	
	Education & Outreach	
X	Other	Explain: Dam Rehabilitation (Safety)

Location of Water Activity	
Please provide the general county and coordinates of the proposed activity below in <b>decimal degrees</b> . The Applicant shall also provide, in Exhibit C, a site map if applicable.	
County/Countries	Lake County
Latitude	39.2466961
Longitude	-106.2935



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### Water Activity Overview

Please provide a summary of the proposed water activity (200 words or less). Include a description of the activity and what the WSRF funding will be used for specifically (e.g. studies, permitting, construction). Provide a description of the water supply source to be utilized or the water body affected by the activity. 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, area of habitat improvements. 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, and Schedule.

This project is the rebuilding of the emergency spillway on the Mountain Lake Reservoir dam. Mountain lake dam was originally constructed in 1879 and subsequently rebuilt and enlarged in 1904. The existing concrete spillway structure has deteriorated and lacks the ability to prevent erosion to the dam that could result from a sudden spring runoff or large storm event. This dam is classified as a "Significant Hazard Dam" by the State Engineers Office due to population in the flood path of this reservoir. Mountain Lake is a high elevation lake that holds 122 Acre Feet of water. This lake along with the nearby Evans Gulch #2 Reservoir, acts as a reserve supply of water for the Parkville Water District.

### Measurable Results

To catalog measurable results achieved with WSRF funds please provide any of the following values.

	New Storage Created (acre-feet)	
	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive	
Restore Emergency Spillway	Existing Storage Preserved or Enhanced (acre-feet)	
	Length of Stream Restored or Protected (linear feet)	
	Efficiency Savings (indicate acre-feet/year OR dollars/year)	
	Area of Restored or Preserved Habitat (acres)	
	Other	Explain:





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## Water Activity Justification

Provide a description of how this water activity supports the goals of [Colorado's Water Plan](#), the most recent [Statewide Water Supply Initiative](#), and the respective [Roundtable Basin Implementation Plan and Education Action Plan](#) <sup>(1)</sup>. 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).

For applications that include a request for funds from the Statewide Account, the proposed water activity shall be evaluated based upon how well the proposal conforms to Colorado's Water Plan criteria for state support (CWP, Section 9.4, pp. 9-43 to 9-44;) (Also listed pp. 4-5 in [2016 WSRF Criteria and Guidelines](#)).

The restoration of the Mountain Lake Spillway will reduce the threat of erosion damage to the dam and possible level restrictions and reduced storage from the SEO.

- This meets the measurable objects of the Colorado Water Plan (Storage and Municipal Supply Gap) by securing and rehabilitating storage facilities and protecting water supplies. Forty percent of the Town of Leadville's raw water supply is stored in Mountain Lake. A loss of this storage would result in the SEO requiring level restrictions and which would increase the municipal supply gap.
  - "The implementation of projects and methods with a storage component will play a crucial role in meeting Colorado's water supply needs" (CWP, Section 6.5.3, p. 6-145).
- This Project meets the identified Arkansas Basin Implementation Plan's objectives for rehabilitating storage vessels and securing the municipal gap by rehabilitating the spillway and securing storage for municipal supplies.
  - "Increasing available storage is seen as fundamental to all solutions to the Arkansas Basin's needs. However, maintaining the current storage capacity may, in fact, be the greater challenge. Many small and medium size reservoirs are well beyond their useful life, while restoration costs are well beyond the capacity of the reservoir owners. A potential role for the Roundtable, similar to its experience in Watershed Health, would be to convene regional and subregional conversations about maintaining and restoring existing storage" (ArkBIP, Executive Summary, p. 9).

(1) Access Basin Implementation Plans or Education Action Plans from Basin drop down menu.



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### Matching Requirements: Basin Account Requests

**Basin (only) Account** grant requests require a 25% match (cash and/or in-kind) from the Applicant or 3<sup>rd</sup> party and shall be accompanied by a **letter of commitment** as described in the 2016 WSRF Criteria and Guidelines (submitted on the contributing entity's letterhead). Attach additional sheet if necessary.

Contributing Entity	Amount and Form of Match (note cash or in-kind)
Total Match	
If you requested a Waiver to the Basin Account matching requirements, indicate the percentage you wish waived.	

### Matching Requirements: Statewide Account Requests

**Statewide Account** grant requests require a 50% match as described in the 2016 WSRF Criteria and Guidelines. A minimum of 10% match shall be from Basin Account funds (cash only). A minimum of 10% match shall be provided by the applicant or 3<sup>rd</sup> party (cash, in-kind, or combination). The remaining 30% of the required match may be provided from any other source (Basin, applicant, or 3<sup>rd</sup> party) and shall be accompanied by a **letter of commitment**. Attach additional sheet if necessary.

Contributing Entity	Amount and Form of Match (note cash or in-kind):
Parkville Water	\$ 31,499 (Cash & In-Kind)
Arkansas Basin Roundtable	\$ 6,681 (Cash)
Total Match	\$ 38,180 57% Match
If you requested a Waiver to the Statewide Account matching, indicate % you wish waived. (Max 50% reduction of requirement).	



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### Related Studies

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

Mountain Lake Dam Hydrology Report and Spillway Hydraulic Evaluation. W.W.Wheeler and Associates, August 9, 2017.

### Previous CWCB Grants

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

Evans Reservoir Bypass Flume Project, 2016. WSRF- Arkansas Basin Roundtable- \$50,000, Statewide-\$250,000.

### Tax Payer Bill of Rights

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

Parkville passed a broad De-bruceing ballot measure in 2010.