



**COLORADO**

**Colorado Water  
Conservation Board**

Department of Natural Resources

1313 Sherman Street, Room 718  
Denver, CO 80203

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Jared Polis, Governor

Dan Gibbs, DNR Executive Director

Rebecca Mitchell, CWCB Director

**TO:** Colorado Water Conservation Board Members

**FROM:** Ben Wade & Dori Vigil  
Water Supply Planning Section

**DATE:** July 5, 2022

**AGENDA ITEM:** Consent Agenda 2a, Water Supply Reserve Fund, Grant Funding Recommendations

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**Staff Recommendation - Action Items: WSRF Grant Requests:**

A summary of staff's recommendation for each WSRF application are provided in the first component of the attached table.

Favorable recommendations may be contingent on the applicants' abilities to resolve issues and additional needs in the attached Water Activity Summaries. Please refer to the Water Activity Summary Sheets contained within this agenda item to find a summary of staff's review and any conditions associated with each recommendation.

**Background:**

For this agenda item, the Board is provided with a brief overview of applications to the Water Supply Reserve Fund (WSRF). Attachments to this memo include:

- Summary spreadsheet detailing funding requests for the basin and statewide accounts;
- Summary spreadsheet displaying current WSRF Balance Summary of Fund Appropriations and Receipts by Fiscal Year, and Fund Distribution by Basin and Statewide Account.
- Water Activity Summary Sheets, which provide an overview, discussion, issues/additional needs, and staff recommendation regarding funding, partial funding, or not funding the applications.

Staff's review of the applications involves the following steps:

- 1) Applications are reviewed for completeness based on the information requirements, which are primarily outlined in the Grant Guidelines.
- 2) Applications are reviewed to verify that the water activity meets the eligibility requirements in Section 39-29-108 (III) C.R.S. (C&G, Part 2) and the threshold criteria, which are based on the requirements of Section 39-29-108 (III) C.R.S., and two sections of the Water for the 21st Century Act (House Bill 1177); Section 37-75-102 and Section 37-75-104(2)(c) (C&G, Part 3). Staff also verifies that the applicant was an eligible entity to receive funding (C&G, Part 2).



- 3) Staff then prepares the Water Activity Summary Sheet which documents the outcome of the review process and contains staff's recommendations.

**Water Supply Reserve Fund Balance Summary and Project Status Report:**

To provide the Board updates on the status of specific Water Supply Reserve Fund grant applications and projects, staff can provide a status report of the following information upon request:

- List of completed WSRF projects;
- List of WSRF projects in progress; and
- List of WSRF projects in the contracting and procurement process.





**Water Supply Reserve Fund Applications for Consideration at the July 2022 CWCB Board Meeting**

**H2B/H2O APPROPRIATION FUNDING**

<b>Basin</b>	<b>Basin Account Requests</b>	<b>Total Requests</b>	<b>Current Basin Account Balances</b>	<b>H2B Remaining Basin Account Balances (if all requests approved)</b>	<b>Current Statewide Account Balance</b>	<b>Remaining Statewide Account Balance (if all requests approved)</b>
Arkansas Basin	\$0	\$0	\$427,246	\$427,246		
Colorado Basin	\$0	\$0	\$290,866	\$290,866		
Gunnsion Basin	\$25,000	\$25,000	\$362,438	\$337,438		
Metro	\$0	\$0	\$664,430	\$664,430		
North Platte	\$66,864	\$66,864	\$365,450	\$298,586	\$5,804,007.00	\$5,804,007.00
Rio Grande	\$0	\$0	\$251,347	\$251,347		
Southwest	\$0	\$0	\$412,503	\$412,503		
South Platte	\$0	\$0	\$480,615	\$480,615		
Yampa/White/Green	\$0	\$0	\$693,490	\$693,490		
<b>Water Supply Reserve Fund Total Requests</b>	<b>\$91,864</b>	<b>\$91,864</b>	<b>\$3,948,385</b>	<b>\$3,856,521</b>		

**COLORADO WATER CONSERVATION BOARD**  
**H2B/H2O Water Supply Reserve Fund - Balance Summary**  
**JULY 2022**

Updated 07/05/22

<b>Fund Appropriation and Receipts</b>				
Fiscal Year	Legislative Appropriation	Funds Received	Statewide Account	Basin Account
2006/2007	\$10,000,000	\$10,000,000	\$5,500,000	\$4,500,000
2007/2008	\$6,000,000	\$6,000,000	\$4,200,000	\$1,800,000
2008/2009	\$10,000,000	\$7,000,000	\$4,300,000	\$2,700,000
2009/2010	\$5,775,000	\$5,775,000	\$4,215,750	\$1,559,250
2010/2011	\$6,000,000	\$6,000,000	\$4,380,000	\$1,620,000
2011/2012	\$7,000,000	\$7,000,000	\$4,732,000	\$2,268,000
2012/2013	\$10,000,000	\$7,157,724	\$4,580,943	\$2,576,781
2013/2014	\$10,000,000	\$10,091,639	\$6,458,649	\$3,632,990
2014/2015	\$10,000,000	\$10,000,000	\$6,400,000	\$3,600,000
2015/2016	\$10,000,000	\$9,103,590	\$5,826,298	\$3,277,292
2016/2017 (FY2017)	\$0	\$0	\$0	\$0
2017/2018 (FY2018)	\$10,000,000	\$1,455,776	\$931,697	\$524,079
2017/2018 CF (FY2018)	\$0	\$7,000,000	\$4,480,000	\$2,520,000
2018/2019 CF (FY2019)	\$0	\$3,544,884	\$2,268,726	\$1,276,158
2019/2020 (FY2020)	\$10,000,000	\$10,000,000	\$6,400,000	\$3,600,000
2020/2021 (FY2021)	\$2,500,000	\$2,500,000	\$1,600,000	\$900,000
Interest	N/A	\$2,857,935	\$3,541,544	
<small>(Prior Years Interest Adjustment 2007-2014 and FY2015, FY2016, FY2017)</small>				
FY 2018 Interest	N/A	\$ 376,467	\$376,467	\$0
FY 2019 Interest	N/A	\$ 431,589	\$431,589	\$0
FY 2020 Interest	N/A	\$ 558,732	\$558,732	\$0
FY 2021 Interest	N/A	\$ 329,821	\$329,821	\$0
FY 2022 Interest	N/A	\$ 250,245	\$250,245	
<b>TOTAL</b>	<b>\$107,275,000</b>	<b>\$107,433,402</b>	<b>\$71,762,461</b>	<b>\$36,354,551</b>

Note: The WSRF is a Severance Tax "Tier II" program & CF Funding with 40% of funds distributed on July 1, 30% on January 1, and the final 30% on April 1. In FY 2008/2009 the final 30% installment of \$3,000,000 was not received due to the State's budgetary shortfall.

*In January 2012 interest for the program from its inception to date was credited directly to the Statewide Account.*

*Interest from January 2012 on is regularly calculated by the Treasury and credited to the Statewide Account.*

<b>Fund Distribution</b>					
Basin	Approved Basin Grants	Total Basin Funds	Basin Account Balance	Approved State Grants	Statewide Account Balance
Arkansas	\$3,612,149	\$4,039,395	\$427,246	\$ 12,737,703	
Colorado*	\$3,748,529	\$4,039,395	\$290,866	\$ 6,611,075	
Southwest *	\$3,626,892	\$4,039,395	\$412,503	\$ 8,929,463	
Gunnison *	\$3,676,957	\$4,039,395	\$362,438	\$ 6,870,607	
Metro *	\$3,374,965	\$4,039,395	\$664,430	\$ 7,723,032	
North Platte	\$3,673,945	\$4,039,395	\$365,450	\$ 842,844	
Rio Grande*	\$3,788,048	\$4,039,395	\$251,347	\$ 13,104,635	
South Platte *	\$3,558,780	\$4,039,395	\$480,615	\$ 8,075,127	
Yampa/White	\$3,345,904	\$4,039,395	\$693,490	\$ 1,063,969	
<b>TOTAL</b>	<b>\$32,406,169</b>	<b>\$36,354,551</b>	<b>\$3,948,381</b>	<b>\$65,958,454</b>	<b>\$5,804,007</b>
<b>TOTAL APPROVED GRANTS</b>					<b>\$98,364,623</b>

Note: Only includes grants approved by CWCB

\* Comments reflect adjustments to balances

**COLORADO WATER CONSERVATION BOARD**  
**H2B/H2O Water Supply Reserve Fund - Balance Summary**  
**JULY 2022**

Updated 07/05/22

<b>Fund Appropriation and Receipts</b>				
Fiscal Year	Legislative		Statewide	
	Appropriation	Funds Received	Account	Basin Account
2006/2007	\$10,000,000	\$10,000,000	\$5,500,000	\$4,500,000
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<b>TOTAL</b>	<b>\$32,406,169</b>	<b>\$36,354,551</b>	<b>\$3,948,381</b>	<b>\$65,958,454</b>	<b>\$5,804,007</b>
<b>TOTAL APPROVED GRANTS</b>					<b>\$98,364,623</b>

Note: Only includes grants approved by CWCB

\* Comments reflect adjustments to balances

**Water Supply Reserve Fund  
Water Activity Summary Sheet  
July 20-21, 2022  
Consent Agenda Item 2(a)**

**Applicant & Grantee:** Spicer Ranches, Ltd  
**Water Activity Name:** Mexican Reservoir Enlargement Phase 1  
**Water Activity Purpose:** Agricultural - Study  
**County:** Jackson County  
**Drainage Basin:** North Platte Basin  
**Water Source:** Middle Force Mexican Creek, Mexican Ditch/Reservoir  
**Amount Requested:** \$66,864 North Platte Basin Account  
**Matching Funds:** Basin Account Match = \$24,423 (cash)

- 26.7% of Total Project Cost (meets 25% min)

<b>Staff Recommendation:</b>
Staff recommends approval of up to \$66,864 from the North Platte Basin Account to help fund the project: <i>Mexican Reservoir Enlargement Phase 1</i> . Project approval is contingent upon the applicants' abilities to resolve issues and additional needs discussed below.

**Water Activity Summary:** The applicant, Spicer Ranches, Ltd has been a family owned ranching operation since the late 1880's. The primary business involves production of 200 head of cattle and hay. Where irrigation water is available, it is used to raise hay for winter livestock feed and irrigated pasture for summer grazing. Annually, the applicant harvests 1,000 to 1,500 tons of hay depending on water availability.

Mexican Creek Dam was constructed as an irrigation supply reservoir. The dam is an earthen embankment dam that is approximately 450-feet long and 12-feet high, with a crest width of 22 feet and an elevation of 8,331 feet. When the reservoir was built, it was believed it was big enough for the 153 AF decree but was later discovered that the full capacity of the reservoir was only 100 AF. There is also a junior decree on the reservoir for an additional 146 AF. The Division of Water Resources moved to abandon part of the water right since the actual storage was significantly less than the decrees. The state agreed that Spicer Ranches can enlarge the reservoir to a greater capacity (200 AF total) before October 31, 2024. If the applicant fails to enlarge the reservoir by this date, they will abandon part of the senior and junior priorities.

The Division of Water Resources has updated the design standards and requirements for all construction and modifications. Since the applicant is planning to enlarge an existing jurisdictional dam, they will be required to perform pre-engineering analysis prior to the design submittal package. The additional analyses include a Hazard Classification Analysis

report and a Geotechnical Investigation & Report. The Division of Water Resources Dam Safety Branch has been made aware of the project.

In 2021, engineering consultants completed an engineering proposal and feasibility cost option for the reservoir. In order to complete the necessary repairs and enlargement, the consultant will complete the engineering analysis and design, which will include: a Hazard Classification Analysis Report (additional requirement by Dam Safety); a Hydrologic Hazard Analysis of Raised Dam (additional requirement by Dam Safety); a Geological and Geotechnical Study; and an Enlargement Design.

If approved, WSRF funds will help complete the previously mentioned studies, which will allow the applicant to move forward with the enlargement of the reservoir. Phase 2 of the project will involve the construction and enlargement.

**Discussion:** This project is in alignment with the updated North Platte Basin Implementation Plan goals and objectives.

**Issues/Additional Needs:** No issues or additional needs have been identified.

**Eligibility Requirements:** The application meets requirements of all eligibility components.

**Evaluation Criteria:** Staff has determined this activity satisfies the Evaluation Criteria.

<b>Funding Sources/Match</b>	<b>Cash</b>	<b>In-Kind</b>	<b>Total</b>	<b>Status</b>
Spicer Ranches	\$24,423	\$0	\$24,423	Secured
<b>Sub-Total Matching Funds</b>	<b>\$24,423</b>	<b>\$0</b>	<b>\$24,423</b>	
WSRF North Platte Basin Account	\$66,864	\$0	\$66,864	Secured
<b>Total Project Costs</b>	<b>\$91,287</b>	<b>\$0</b>	<b>\$91,287</b>	

**CWCB Project Manager:** Cole Bedford



Last Update: January 10, 2022

**Colorado Water Conservation Board**  
**Water Supply Reserve Fund**  
**Grant Application**

**Instructions**

All WSRF grant applications shall conform to the current [WSRF Program 2022 Grant Guidelines](#).

To receive funding from the WSRF, a proposed water activity must be recommended for approval by a Roundtable(s) **AND** the approved by the Colorado Water Conservation Board (CWCB). The process for roundtable consideration and recommendation is outlined in the WSRF Program 2022 Grant Guidelines. The CWCB meets bimonthly.

If you have questions, please contact the WSRF Grant Program Manager (for all Roundtables) or the Roundtable Liaison:

<p>Ben Wade <a href="mailto:ben.wade@state.co.us">ben.wade@state.co.us</a> 303-866-3441 x3238 (office)</p>	<p>Sam Stein <a href="mailto:Sam.stein@state.co.us">Sam.stein@state.co.us</a> 303-866-3441(office)</p>
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**WSRF Submittal Checklist (Required)**

- YES  NO  This request was recommended for CWCB approval by the sponsoring roundtable.
- YES  NO  I have read and understand the [WSRF Program 2022 Grant Guidelines](#).
- YES  NO  Grantee will be able to contract with CWCB using the [Standard Contract](#).<sup>1</sup>
  
- Application Documents included:**
- YES  NO  Exhibit A: Statement of Work<sup>2</sup> (*Word – see Template*)
- YES  NO  Exhibit B: Budget (including Detailed Budget) & Schedule<sup>2</sup> (*Excel Spreadsheet – see Template*)
- YES  NO  Letters of Matching and/or Pending 3<sup>rd</sup> Party Commitments<sup>2</sup>
- YES  NO  Map<sup>2</sup>
- YES  NO  Photos/Drawings/Reports
- YES  NO  Letters of Support
  
- Contracting Documents<sup>3</sup>**
- YES  NO  Detailed/Itemized Budget<sup>3</sup> (*Excel Spreadsheet – see Template*)
- YES  NO  Certificate of Insurance<sup>4</sup> (*General, Auto, & Workers’ Comp.*)
- YES  NO  Certificate of Good Standing<sup>(4)</sup>
- YES  NO  W-9 Form<sup>4</sup>
- YES  NO  Independent Contractor Form<sup>4</sup> (*If applicant is individual, not company/organization*)
- YES  NO  Electronic Funds Transfer (ETF) Form<sup>4</sup>

<sup>1</sup>Click “Grant Agreements”. For reference only/do not fill out or submit/required for contracting  
<sup>2</sup> Required with application if applicable.  
<sup>3</sup> Additional documentation providing a Detailed/Itemized Budget maybe required for contracting. Applicants are encouraged to coordinate with the CWCB Project Manager to determine specifics.  
<sup>4</sup> Required for contracting. While optional at the time of this application, submission can expedite contracting upon CWCB Board approval.



Last Update: January 10, 2022

CWCB Meeting	Application Submittal Dates
January	October 1
March	December 1
May	February 1
July	April 1
September	June 1
November	August 1

Water Activity Summary	
Name of Applicant	Spicer Ranches, Ltd
Name of Water Activity	Mexican Reservoir Enlargement Phase 1
Approving Roundtable(s)	Basin Account Request(s) <sup>1</sup>
North Platte	\$66,864
Basin Account Request Subtotal	\$66,864
Basin Account Request Subtotal Approved by Roundtable	\$
Statewide Account Request <sup>(1)</sup>	\$
Total WSRF Funds Requested (Basin & Statewide)	\$66,864
Total Project Costs	\$91,287

<sup>1</sup> Please indicate the amount recommended for approval by the Roundtable(s)

Grantee and Applicant Information	
Name of Grantee(s)	Spicer Ranches, Ltd.
Mailing Address	13241 Highway 14 Walden, CO 80480
FEIN	84-1159503
<b>Grantee's Organization Contact<sup>1</sup></b>	Coy Meyring
Position/Title	Owner/operator
Email	coymeyring@hotmail.com



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Grantee and Applicant Information	
Phone	806-676-2347
<b>Grant Management Contact<sup>2</sup></b>	Greg Peterson
Position/Title	Colorado Ag Water Alliance
Email	<a href="mailto:coagwater@gmail.com">coagwater@gmail.com</a>
Phone	720-244-4629
<b>Name of Applicant (if different than grantee)</b>	
Mailing Address	
Position/Title	
Email	
Phone	

<sup>1</sup> Person with signatory authority

<sup>2</sup> 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>Spicer Ranches, Ltd is a ranching operation that is owned and operated by Coy Meyring and his family. The ranch has been owned by the Meyring's and their decedents since the late 1880's. My children are the 6<sup>th</sup> generation to help operate the ranch. The primary business involves production of cattle and hay. Where irrigation water is available, it is used to raise hay for winter livestock feed and irrigated pasture for summer grazing. The non-irrigated lands are used for livestock grazing and provide habitat for a wide variety of wildlife species that make the ranch their home. The ranch is comprised of approximately 8,600 acres of deeded acres plus several state, federal and private leases. We have a cow/calf herd of 200 head that reside on the ranch year around. During the summer months, we graze approximately 2,000 yearling cattle that are purchased from other areas around the state. Annually we harvest 1,000 to 1,500 tons of hay depending on water availability.</p>

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.
	<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
X	<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>



Last Update: January 10, 2022

Type of Water Activity (check one)	
<input checked="" type="checkbox"/>	Study
<input type="checkbox"/>	Implementation

Category of Water Activity (check all that apply)	
<input type="checkbox"/>	Nonconsumptive (Environmental)
<input type="checkbox"/>	Nonconsumptive (Recreational)
<input checked="" type="checkbox"/>	Agricultural
<input type="checkbox"/>	Municipal/Industrial
<input type="checkbox"/>	Needs Assessment
<input type="checkbox"/>	Education & Outreach
<input type="checkbox"/>	Other
	Explain:

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	Jackson
Latitude	40.498783
Longitude	-106.491641

Water Activity Overview
<p>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.</p> <p>The Applicant shall also provide, in Exhibit A, a detailed Statement of Work, Budget, and Schedule.</p>



Last Update: January 10, 2022

**Water Activity Overview**

Mexican Creek Dam was constructed as an irrigation supply reservoir. The dam is an earthen embankment dam that is approximately 450-feet long and 12-feet high, with a crest width of 22 feet and an elevation of 8331.0-feet. When the reservoir was built, it was believed it was big enough for the 153 AF decree. Later, it was discovered that the full capacity of the reservoir was 100 AF at most. There is also a junior decree on the reservoir for an additional 146 AF. The Division of Water Resources moved to abandon part of the water right since the actual storage was significantly less than the decrees. The state agreed that Spicer Ranches can enlarge the reservoir to a greater capacity (200 AF total) before October 31, 2024. If they fail to enlarge the reservoir by this date, they will abandon part of the senior and junior priorities.

The Colorado Division of Water Resources has updated all the design standards and requirements for all construction and modifications. Since we are planning to enlarge an existing jurisdictional dam, we will be required to perform pre-engineering analysis prior to the design submittal package. The additional analyses include a Hazard Classification Analysis report and a Geotechnical Investigation & Report.

In 2021, W. W. Wheeler & Associates completed an engineering proposal and feasibility cost option for the reservoir. In order to complete the necessary repairs and enlargement, W. W. Wheeler & Associates will complete the engineering analysis and design, which will include:

1. Hazard Classification Analysis Report (additional requirement by Dam Safety)
2. Hydrologic Hazard Analysis of Raised Dam (additional requirement by Dam Safety)
3. Geological and Geotechnical Study
4. Enlargement Design

This grant will help fund the previously mentioned studies, which will allow us to move forward with the enlargement of the reservoir. Phase 2 of the project will involve the construction and enlargement.

**Measurable Results**

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

	New Storage Created (acre-feet)	
100 AF	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive	
	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)	
	Length of Pipe/Canal Built or Improved (linear feet)	
	Other	Explain:

**Water Activity Justification**

Provide a description of how this water activity supports the goals of [Colorado's Water Plan](#), the most recent [Analysis & Technical Update](#), 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



Last Update: January 10, 2022

### Water Activity Justification

(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;)

The Mexican Reservoir Enlargement Project meets three of the 8 goals outlined in the BIP update:

- (1) Maintaining and maximizing consumptive use of water permitted
- (2) Restoring, maintaining, and modernizing critical water infrastructure
- (3) Promoting water rights protection

The North Platte Basin Roundtable has also included the “Mexican Reservoir Enlargement” among their Identified Projects and Processes (IPPs) in the updated North Platte Basin Implementation Plan (BIP).

Currently, the reservoir, via the Mexican Ditch irrigates 65 acres. With the enlargement, we plan to irrigate an additional 70 acres located in the vicinity of Mexican Ditch. We also intend to use the water as supplemental irrigation either directly or by exchange for up to 300 acres on other properties leased or owned by the ranch.

On March 31, 2021, emergency drought was declared in Jackson County. This current drought has severely impacted agricultural production in the county and throughout the region. In 2021, we produced 75% of our average hay crop. In anticipation of the drought conditions, we also reduced our yearling stocking rate in 2021 by 50%. Reductions in harvested forage for livestock, makes it incredibly difficult to maintain herd sizes and a profitable livestock operation. However, more storage means more water during dry times, allowing us to close that gap in forage production in drought years.

Like many ranches in Colorado, we have worked to manage the land to support a productive cattle operation, while also providing habitat for a range of species, including elk, moose, mule deer, and greater sage-grouse. We have worked with the Colorado Cattlemen’s Agricultural Land Trust to protect the ranch’s traditional ranching uses and wildlife habitat values. Irrigated pastures are dynamic environments provide a diverse habitat for many plant and wildlife species and support a sustainable livestock enterprise (Intermountain Irrigated Pastures and Mountain Meadows, UC Davis, 1993). There has been consistent research over decades that irrigated meadows provide food and shelter for wildlife at some point during the year (Colorado Forage Guide, CSU, 2018).

<sup>1</sup> Access Basin Implementation Plans or Education Action Plans from Basin drop down menu.



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Matching Requirements: Basin Account Requests	
<p><b>Basin Account</b> 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 <b>letter of commitment</b> as described in the <a href="#">WSRF Program 2022 Grant Guidelines</a> (submitted on the contributing entity's letterhead). Attach additional sheet if necessary.</p>	
Contributing Entity	Amount and Form of Match (note cash or in-kind)
Spicer Ranches	\$24,423
Total Match	\$24,423
<p>If you requested a Waiver to the Basin Account matching requirements, indicate the percentage you wish waived.</p>	

Previous CWCB Grants
<p>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</p>

Tax Payer Bill of Rights
<p>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.</p>
N/A

April 21,2022

Mr. Ben Wade

CWCB

Water Supply Planning Section

Ben,

The North Platte Basin Roundtable voted unanimously to approve the Mexican Reservoir Enlargement Phase 1 in the amount of \$66,864.00 to come from the North Platte Basin Account funds. This project is in alignment with the Water Plan and the BIP goals and objectives. If you have any questions please call me at 970-723-4498.

Sincerely,

Ty Wattenberg

North Platte Basin Roundtable Chair



# SPICER RANCHES, LTD.

April 21, 2022

Colorado Water Conservation Board  
1313 Sherman St., Room 718  
Denver, CO 80203

RE: Letter of Matching Funding

To Whom It May Concern:

On behalf of Spicer Ranches, we intend to provide \$24,423 support for the Colorado Water Conservation Board grant application entitled "Mexican Reservoir Enlargement Phase 1." This support will be in the form of cash.

This grant helps Spicer Ranches rehabilitate and enlarge an existing reservoir to provide water for irrigation in the North Platte Basin.

Sincerely,

Coy Meyring  
Managing General Partner



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<b>Colorado Water Conservation Board</b>	
<b>Water Supply Reserve Fund</b>	
<b><u>Exhibit A - Statement of Work</u></b>	
<b>Date:</b>	<b>2/28/2022</b>
<b>Water Activity Name:</b>	<b>Mexican Reservoir Enlargement Phase 1</b>
<b>Grant Recipient:</b>	<b>Spicer Ranches</b>
<b>Funding Source:</b>	<b>WSRF – North Platte Basin</b>
<b>Water Activity Overview:</b> (Please provide brief description of the proposed water activity (no more than 200 words). Include a description of the overall water activity and specifically what the WSRF funding will be used for. (PLEASE DEFINE ALL ACRONYMS).)	
<p>Mexican Creek Dam was constructed as an irrigation supply reservoir. Per the original construction drawings, Mexican Creek Dam was originally constructed in 1967 and is currently classified as a low hazard dam. The dam is an earthen embankment dam that is approximately 450-feet long and 12-feet high, with a crest width of 22 feet and an elevation of 8331.0-feet. When the reservoir was built, it was believed it was big enough for the 153 AF decree. Later, it was discovered that the full capacity of the reservoir was 100 AF at most. There is also a junior decree on the reservoir for an additional 146 AF. The Division of Water Resources moved to abandon part of the water right since the actual storage was significantly less than the decrees. The state agreed that Spicer Ranches can enlarge the reservoir to a greater capacity (200 AF total) before October 31, 2024. If they fail to enlarge the reservoir by this date, they will abandon part of the senior and junior priorities.</p> <p>The Colorado Division of Water Resources has updated all the design standards and requirements for all construction and modifications. Since we are planning to enlarge an existing jurisdictional dam, we will be required to perform pre-engineering analysis prior to the design submittal package. The additional analyses include a Hazard Classification Analysis report and a Geotechnical Investigation &amp; Report.</p> <p>In 2021, W. W. Wheeler &amp; Associates completed an engineering proposal and feasibility cost option for the reservoir. In order to complete the necessary repairs and enlargement, W. W. Wheeler &amp; Associates will complete the engineering analysis and design, which will include:</p> <ol style="list-style-type: none"> <li>1. Hazard Classification Analysis Report (additional requirement by Dam Safety)</li> <li>2. Hydrologic Hazard Analysis of Raised Dam (additional requirement by Dam Safety)</li> <li>3. Geological and Geotechnical Study</li> <li>4. Enlargement Design</li> </ol> <p>This grant will help fund the previously mentioned studies, which will allow us to move forward with the enlargement of the reservoir. Phase 2 of the project will involve the construction and enlargement.</p>	
<b>Objectives:</b> List the objectives of the project. (PLEASE DEFINE ACRONYMS).	



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- 1) Complete Hazard Classification Analysis
- 2) Complete Hydrologic Hazard Analysis of Raising Dam
- 3) Complete Geological and Geotechnical Study
- 4) Complete Enlargement Design for The Reservoir

<b>Tasks</b>
Provide a detailed description of each task using the following format: (PLEASE DEFINE ACRONYMS)
<b><u>Task 1 – Project Management</u></b>
Description of Task: Management of this project will involve a set up and kickoff meeting with the landowner, site visits, video inspection of the reservoir outlet, update meetings with the landowner, and coordinating with the State Engineer's Office (SEO) and Dam Safety so that the work being done will meet all expectations of the SEO.
Method/Procedure:



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Tasks	
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)	<ul style="list-style-type: none"> <li>• Video and inspection from reservoir outlet</li> <li>• Site visit with engineers</li> <li>• Update meetings with landowner</li> </ul>
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)	<ul style="list-style-type: none"> <li>• Video and inspection from reservoir outlet</li> <li>• Log of meetings with landowner on the project</li> </ul>

Tasks	
	Provide a detailed description of each task using the following format: (PLEASE DEFINE ACRONYMS)
	<b><u>Task 2 – Hazard Classification Analysis</u></b>
Description of Task:	<p>Wheeler will prepare a sunny-day dam breach analysis and hydraulic modeling to determine the probability of property damage or loss of life and the subsequent hazard classification of the dam based on the proposed dam raise to document that the dam raise, and failure will not have any additional consequences greater than the current existing structure. The hazard classification is based on a sunny day failure and is independent of basin hydrology. This task will be completed at the beginning of the project to verify compliance with Department of Water Resources (DWR) requirements based on hazard classification and being cost efficient by not completing an excessive investigation.</p>
Method/Procedure:	



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<b>Tasks</b>	
	The analysis will be completed using a HEC-RAS Digital Terrain Model, breach hydrograph, and HEC-RAS inundation model. A Report will be compiled from these models and hydrograph.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)	
	<ul style="list-style-type: none"> <li>Hazard Classification Report</li> </ul>
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)	
	<ul style="list-style-type: none"> <li>Hazard Classification Report</li> </ul>

<b>Tasks</b>	
	Provide a detailed description of each task using the following format: (PLEASE DEFINE ACRONYMS)
<b><u>Task 3 – Hydrologic Hazard Analysis of Raised Dam</u></b>	
	Description of Task:
	Wheeler will need to develop the 100-year hydrology based on the proposed dam enlargement. Using the hydrology, the existing spillway will be evaluated and determined if it has the capacity to safely pass the inflow design flood (IDF). Spillway modifications will be designed as necessary to safely pass the IDF in accordance with DWR Rules and regulations.
	Method/Procedure:



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<b>Tasks</b>	
	Models and analyses will be run up to 100 year storms and distributions for the dam enlargement. We will also conduct HEC-HMS Runoff and Routing and Inundation modeling, analyze breach parameters and spillway assumptions, and complete the final report
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)	
	<ul style="list-style-type: none"> <li>Hydrologic Hazard Classification Report for Dam Enlargement</li> </ul>
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)	
	<ul style="list-style-type: none"> <li>Hydrologic Hazard Classification Report for Dam Enlargement</li> </ul>

<b>Tasks</b>	
	Provide a detailed description of each task using the following format: (PLEASE DEFINE ACRONYMS)
<b><u>Task 4 – Geological and Geotechnical Study</u></b>	
	Description of Task:
	<p>The proposed geotechnical investigation and analyses will be performed in accordance with the DWR Guidelines for Preparation of Subsurface Investigation Plans. Wheeler has completed a borrow source investigation. This site exploration was completed in September 2020. Following the completion of the borrow source investigation, Wheeler performed laboratory tests on the samples in the Wheeler soils laboratory. The laboratory tests were completed to classify the borrow material and establish and index and engineering properties for use in the geotechnical analysis. Laboratory testing included soil gradations, Atterberg Limits, flexible wall permeability, and water-soluble sulfates. In addition, one consolidated undrained triaxial test was performed to obtain information on the shear strength of embankment soils.</p> <p>As part of the enlargement design, a seepage analysis and filter compatibility evaluation will be required. We are hoping to avoid a slope stability analysis as part of this design. The seepage analyses will be performed to assess internal gradients through the dam, horizontal and vertical exit gradients in the downstream toe. Filter compatibility analyses will be also performed to assess the filter compatibility of dam fills and foundation soils. The geotechnical analysis will be provided in a geotechnical investigation report.</p>



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<b>Tasks</b>	
<b>Method/Procedure:</b>	Wheeler has already conducted geologic reconnaissance of the area and a geotechnical field investigation. There has been laboratory testing of geologic materials and a completed. Wheeler MAY have to provide seepage and stability modeling, but that will depend on the hazard classification analysis. This task would only involve the seepage and stability modeling, which would complete the Geological and Geotechnical Study.
<b>Grantee Deliverable: (Describe the deliverable the grantee expects from this task)</b>	<ul style="list-style-type: none"> <li>Seepage and Stability Modeling and Report</li> </ul>
<b>CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)</b>	<ul style="list-style-type: none"> <li>Seepage and Stability Modeling and Report</li> </ul>

<b>Tasks</b>	
Provide a detailed description of each task using the following format: (PLEASE DEFINE ACRONYMS)	
<b><u>Task 5 – Enlargement Design</u></b>	
<b>Description of Task:</b>	Final design engineering was assumed to be 8-percent of the direct construction cost and would include the preparation of detailed construction drawings, construction specifications, and a design summary report that documents the engineering analysis completed to support the design. These design documents will require review and approval by the Colorado Office of the State Engineer, Dam Safety Branch.



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Tasks	
<b>Method/Procedure:</b>	The design for the reservoir enlargement will include field work and site investigations. Then Wheeler will begin the design and calculations. The plans will be developed via CADD and then reviewed with the Office of Dam Safety. Comments will be reviewed and a final design report will be written. The final report will also include construction cost estimates. The cost opinions will be generated utilizing Wheeler's experience with similar dam construction, as well as contractor's budgetary estimates, and the 2021 R.S. Means Heavy Civil Estimating Guide. The costs are considered Class 4 cost opinions under the Association for the Advancement of Cost Engineering (ACE) Accuracy Matrix (USSD, 2012)
<b>Grantee Deliverable:</b> (Describe the deliverable the grantee expects from this task)	<ul style="list-style-type: none"> <li>Final Design Report</li> </ul>
<b>CWCB Deliverable:</b> (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)	<ul style="list-style-type: none"> <li>Final Design Report</li> </ul>

Budget and Schedule
<b>Exhibit B - Budget and Schedule:</b> This Statement of Work shall be accompanied by a combined <a href="#">Budget and Schedule</a> that reflects the Tasks identified in the Statement of Work and shall be submitted to CWCB in <u>excel format</u> . A separate <u>excel formatted</u> Budget is required for engineering costs to include rate and unit costs.

Reporting Requirements
<b>Progress Reports:</b> The grantee shall provide the CWCB a progress report every 6 months, beginning from the date of issuance of a purchase order, or the execution of a contract. The progress report shall describe the status of the tasks identified in the statement of work, including a description of any major issues that have occurred and any corrective action taken to address these issues. The CWCB may withhold reimbursement until satisfactory progress reports have been submitted.
<b>Final Report:</b> At completion of the project, the grantee shall provide the CWCB a Final Report on the grantee's letterhead that: <ul style="list-style-type: none"> <li>Summarizes the project and how the project was completed.</li> <li>Describes any obstacles encountered, and how these obstacles were overcome.</li> <li>Confirms that all matching commitments have been fulfilled.</li> <li>Includes photographs, summaries of meetings and engineering reports/designs.</li> </ul>



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### Reporting Requirements

#### Payments

Payment will be made based on actual expenditures, must include invoices for all work completed and must be on grantee's letterhead. The request for payment must include a description of the work accomplished by task, an estimate of the percent completion for individual tasks and the entire Project in relation to the percentage of budget spent, identification of any major issues, and proposed or implemented corrective actions.

The CWCB will pay the last 10% of the entire water activity budget when the Final Report is completed to the satisfaction of CWCB staff. Once the Final Report has been accepted, and final payment has been issued, the water activity and purchase order or contract will be closed without any further payment. Any entity that fails to complete a satisfactory Final Report and submit to CWCB within 90 days of the expiration of a purchase order or contract may be denied consideration for future funding of any type from CWCB.

#### Performance Requirements

Performance measures for this contract shall include the following:

- (a) Performance standards and evaluation: Grantee will produce detailed deliverables for each task as specified. Grantee shall maintain receipts for all project expenses and documentation of the minimum in-kind contributions (if applicable) per the budget in Exhibit B. Per Grant Guidelines, the CWCB will pay out the last 10% of the budget when the final deliverable is completed to the satisfaction of CWCB staff. Once the final deliverable has been accepted, and final payment has been issued, the purchase order or grant will be closed without any further payment.
- (b) Accountability: Per the Grant Guidelines full documentation of project progress must be submitted with each invoice for reimbursement. Grantee must confirm that all grant conditions have been complied with on each invoice. In addition, per the Grant Guidelines, Progress Reports must be submitted at least once every 6 months. A Final Report must be submitted and approved before final project payment.
- (c) Monitoring Requirements: Grantee is responsible for ongoing monitoring of project progress per Exhibit A. Progress shall be detailed in each invoice and in each Progress Report, as detailed above. Additional inspections or field consultations will be arranged as may be necessary.
- (d) Noncompliance Resolution: Payment will be withheld if grantee is not current on all grant conditions. Flagrant disregard for grant conditions will result in a stop work order and cancellation of the Grant Agreement.



**COLORADO**

Colorado Water Conservation Board

Department of Natural Resources

**Colorado Water Conservation Board**

**Water Supply Reserve Fund**

**EXHIBIT B - BUDGET AND SCHEDULE - Direct & Indirect (Administrative) Costs**

Date: 3/21/2022

Water Activity Name: Mexican Reservoir Enlargement Phase 1

Grantee Name: Spicer Ranches, Ltd

<u>Task No.</u> <sup>(1)</sup>	<u>Description</u>	<u>Start Date</u> <sup>(2)</sup>	<u>End Date</u>	<u>Matching Funds</u> (cash & in-kind) <sup>(3)</sup>	<u>WSRF</u> <u>Funds</u> <sup>(3)</sup>	<u>Total</u>
1	Project Management			\$2,035.25	\$6,106.00	\$8,141.25
2	Hazard Classification Analysis			\$4,700.00	\$14,100.00	\$18,800.00
3	Hydrologic Hazard Analysis of Raised Dam			\$7,232.25	\$21,697.00	\$28,929.25
4	Geological and Geotechnical Study			\$853.00	\$2,559.00	\$3,412.00
5	Enlargement Dam			\$9,173.25	\$21,115.00	\$30,288.25
*	Other Direct Costs			\$429.25	\$1,287.00	\$1,716.25
<b>Total</b>				<b>\$24,423.00</b>	<b>\$66,864.00</b>	<b>\$91,287.00</b>

(1) The single task that include costs for Grant Administration must provide a labor breakdown (see Indirect Costs tab below) where the total WSRF Grant contribution towards that task does not exceed 15% of the total WSRF Grant amount.

(2) Start Date for funding under \$100K - 45 Days from Board Approval; Start Date for funding over \$100K - 90 Days from Board Approval.

(3) Round values up to the nearest hundred dollars.

- Reimbursement eligibility commences upon the grantee's receipt of a Notice to Proceed (NTP)
- NTP will not be accepted as a start date. Project activities may commence as soon as the grantee enters contract and receives formal signed State Agreement.

The CWCB will pay the last 10% of the entire water activity budget when the Final Report is completed to the satisfaction of the CWCB staff project manager. Once the Final Report has been accepted, the final payment has been issued, the water activity and purchase order (PO) or contract will be closed without any further payment. Any entity that fails to complete a satisfactory Final Report and submit to the CWCB with 90 days of the expiration of the PO or contract may be denied consideration for future funding of any type from the CWCB.

- Additionally, the applicant shall provide a progress report every 6 months, beginning from the date of contract execution
- Standard contracting procedures dictate that the Expiration Date of the contract shall be 5 years from the Effective Date.