

Water Supply Reserve Fund – Grant and Loan Program
Water Activity Summary Sheet
November 15, 2018
Agenda Item 18(a)

Applicant & Grantee: Thunderbird Water & Sanitation District
Water Activity Name: Connection Feasibility Analysis
Water Activity Purpose: Municipal/Industrial Study
County: Douglas
Drainage Basin: South Platte
Water Source: Water Infrastructure and Supply Efficiency (WISE) Project
Amount Requested: \$15,000 Metro Account
Matching Funds: Applicant Match (in-kind only) = \$5,500

- 36.7% of the basin request (meets 25% min)
- 26.8% of the total project cost of \$20,500

Staff Recommendation:
Staff recommends approval of up to \$15,000 from the Metro Account to fund the project: Connection Feasibility Analysis.

Water Activity Summary: WSRF grant funds, if approved, will support a feasibility analysis to connect Dominion Water & Sanitation District's (DWSD) water supply to Thunderbird Water & Sanitation District's (TWSD) main water tank. TWSD is a Water Receiving Authority under the Chatfield Valley Water Supply Framework, and has been discussing a potential water-supply agreement with DWSD. It has become apparent that the most straightforward way to effect a transfer is to connect the DWSD planned "high" tank to TWSD's "high" tank. Objectives of the analysis are to gather specific site data, develop pipeline route alternatives, and design a feasibility report comparing those alternatives, including an opinion of probable cost for each potential route and connection.

Discussion: As described in the Metro Roundtable chair's recommendation letter, this project was supported and recommended for approval on October 11, 2018. If effected, this overall project could facilitate a significant reduction in TWSD's reliance on non-renewable non-tributary groundwater. DWSD's water source is predominately renewable (WISE) water. As such, we feel that our request satisfies Metro Roundtable's guidelines in multiple ways:

- 1) Implementation will reduce the Metro Area M&I Gap while also maximizing the beneficial use of groundwater supplies.
- 2) This project's use of WISE water is an example of leveraging past funding for water reuse.
- 3) This new conveyance mechanism will enhance TWSD's supply reliability while also allowing more effective use of groundwater.
- 4) The project piggybacks on the WISE project's successive use and reuse of water, extending the geographic penetration of WISE water.

Issues/Additional Needs: No 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.

Funding Summary / Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-Kind</u>	<u>Total</u>
Thunderbird Water & Sanitation District	\$5,000	\$500	\$5,500
WSRF Metro Account	\$15,000	n/a	\$15,000
Totals	\$20,000	\$500	\$20,500

CWCB Project Manager: Megan Holcomb

October 31, 2018

Colorado Water Conservation Board
1313 Sherman Street, Suite 721
Denver, CO 80203

RE: Thunderbird Water & Sanitation District Feasibility Study

Dear Honorable Board Members,

Thunderbird Water & Sanitation District (TWSD) is a small (178 taps) Title 32 water district serving the Indian Creek Ranch community since 1971, and is located about 3 miles southwest of Sedalia. Our current water supply comes from two wells drilled in 1999 and 2002 to the Arapaho aquifer. TWSD is wholly reliant on groundwater for our supply, which has averaged 0.44ac-ft/yr/lot over the last 7 years. TWSD is a Water Receiving Authority under the Chatfield Valley Water Supply Framework, and has been discussing a potential water-supply agreement with Dominion Water & Sanitation District (DWSD).

Now that DWSD knows the major details of its build-out plans for water supply and storage, we have had discussions about the best way to receive water from DWSD. It has become apparent that the most straightforward way to effect a transfer is to connect their planned DWSD “high” tank to our “high” tank about 2 miles away by line of sight.

TWSD wishes to perform a feasibility analysis for this connection project under a scope of services from Acuity LLC to DWSD. Acuity is performing the engineering for DWSD’s large project, and would be paid by DWSD for this “sub-project” with TWSD reimbursing DWSD for any such expense, estimated by Acuity to be \$16,000 to \$20,000.

TWSD hereby requests a \$15,000 grant from the Metro Roundtable’s Water Supply Reserve Fund, with TWSD supplying a matching amount of \$5,000.

After discussion, the Metro Roundtable (MRT) unanimously agreed this project could facilitate a significant reduction in TWSD’s reliance on nonrenewable groundwater, and meets MRT’s guidelines in multiple ways:

- Implementation will reduce the Metro Area M&I Gap while also maximizing the beneficial use of groundwater supplies.
- This project’s use of WISE water is an example of leveraging past funding for water reuse.
- This new conveyance mechanism will enhance TWSD’s supply reliability while also allowing more effective use of groundwater.
- The project piggybacks on the WISE project’s successive use and reuse of water, extending the geographic penetration of WISE water.

Therefore the MRT supports the WSRF grant application for \$15,000 in MRT basin funds to support Thunderbird Water & Sanitation District’s feasibility study.

Yours Truly,



Barbara J. Biggs
Metro Roundtable Chairperson



Last Update: August 3, 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
303-866-3441 x3238

Gunnison | North Platte | South Platte | Yampa/White

Craig Godbout
craig.godbout@state.co.us
303-866-3441 x3210

Colorado | Metro | Rio Grande | Southwest

Megan Holcomb
megan.holcomb@state.co.us
303-866-3441 x3222

WSRF Submittal Checklist (Required)

X	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 2016 WSRF Criteria and Guidelines .
X	I acknowledge the Grantee will be able to contract with CWCB using the Standard Contract . ⁽¹⁾
Exhibit A	
X	Statement of Work ⁽²⁾ (Word – see Exhibit A Template)
X	Budget & Schedule ⁽²⁾ (Excel Spreadsheet – see Exhibit A Template)
	Letters of Matching and/or Pending 3 rd Party Commitments ⁽²⁾
Exhibit C	
X	Map ⁽²⁾
	Photos/Drawings/Reports
	Letters of Support
	Certificate of Insurance ⁽³⁾ (General, Auto, & Workers' Comp.)
Contracting Documents	
	Certificate of Good Standing ⁽³⁾
	W-9 ⁽³⁾
	Independent Contractor Form ⁽³⁾ (If applicant is individual, not company/organization)
	Electronic Funds Transfer (ETF) Form ⁽³⁾

(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.



Last Update: August 3, 2017

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:	November
Desired Notice to Proceed Date:	December

Water Activity Summary		
Name of Applicant	Thunderbird Water & Sanitation District	
Name of Water Activity	Connection Feasibility Analysis	
Approving Roundtable(s)		Basin Account Request(s) ⁽¹⁾
Metro		\$15,000
Basin Account Request Subtotal		\$15,000
Statewide Account Request ⁽¹⁾		\$
Total WSRF Funds Requested (Basin & Statewide)		\$15,000
Total Project Costs		\$20,500

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



Last Update: August 3, 2017

Grantee and Applicant Information	
Name of Grantee(s)	Thunderbird Water & Sanitation District
Mailing Address	PO Box 157, Sedalia, CO 80135
FEIN	
Grantee's Organization Contact ⁽¹⁾	Larry Morris
Position/Title	President
Email	larrygmorris@hotmail.com
Phone	303.688.5962 –home 303.525.6835 -cell
Grant Management Contact ⁽²⁾	<u>Barry Gager</u>
Position/Title	Treasurer
Email	gagerbr@yahoo.com
Phone	303.660.6281 –home 303.956.0015 –cell
Name of Applicant (if different than grantee)	
Mailing Address	
Position/Title	
Email	
Phone	

Description of Grantee
Provide a brief description of the grantee's organization (100 words or less).
<p>Thunderbird Water & Sanitation District (TWSD) is a small (178 taps) Title 32 water district serving the Indian Creek Ranch community since 1971, and is located about 3 miles southwest of Sedalia. Our current water supply comes from two wells drilled in 1999 and 2002 to the Arapaho aquifer. TWSD is wholly reliant on groundwater for our supply, which has averaged 0.44ac-ft/yr/lot over the last 7 years.</p>



Last Update: August 3, 2017

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: are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
	Non-governmental organizations: broadly, any organization that is not part of the government
	Covered Entity: as defined in Section 37-60-126 Colorado Revised Statutes

Type of Water Activity (check one)	
X	Study
	Implementation

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

Location of Water Activity		
Please provide the general county and coordinates of the proposed activity below in decimal degrees . The Applicant shall also provide, in Exhibit C, a site map if applicable.		
County/Countries	Douglas	
Latitude	From 39.448869	to 39.409561
Longitude	105.036375	105.031839



Last Update: August 3, 2017

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.

TWSD is a Water Receiving Authority under the Chatfield Valley Water Supply Framework, and has been discussing a potential water-supply agreement with Dominion Water & Sanitation District (DWSD). It has become apparent that the most straightforward way to effect a transfer is to connect their planned “high” tank to our “high” tank about 2 miles away by line of sight.

TWSD wishes to have Acuity LLC perform a feasibility analysis for this connection project.. Acuity is performing the engineering for DWSD’s large project, and would be paid by DWSD for this “sub-project” with TWSD reimbursing DWSD for any such expense, estimated by Acuity to be \$20,000.

If effected, this overall project could facilitate a significant reduction in TWSD’s reliance on nonrenewable nontributary groundwater. DWSD’s water source is predominately renewable (WISE) water. As such, we feel that our request satisfies MRT’s guidelines in multiple ways.

- Implementation will reduce the Metro Area M&I Gap while also maximizing the beneficial use of groundwater supplies.
- This project’s use of WISE water is an example of leveraging past funding for water reuse.
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Measurable Results

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

	New Storage Created (acre-feet)	
Up to 78 acft/yr	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	
	Other	Explain:



Last Update: August 3, 2017

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](#) ⁽¹⁾. 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](#)).

Our small project addresses the Colorado Water Plan's goals of collaboration, and the municipal supply/demand gap via reuse of renewable water and conservation of nontributary groundwater, plus Section 5 - Consumptive Projects and Methods and the M&I Gap, of the Statewide Water Supply Initiative.

Looking at the South Platte/Metro BIP, our project applies to the following sections:

S.3.2 Successive Use, Conservation, and Reuse – via the use of WISE water to help close the M&I gap.

S.3.3 Groundwater and Aquifer Storage and Recovery – via conjunctive use of renewable/WISE supplies and Denver Basin nontributary aquifers. In the future TWSD's groundwater wells might be useful for Aquifer Storage and Recovery.

S.5.1 Maximize Implementation of IPPs

S.5.2 Maintain leadership in conservation and reuse and implement additional measures to reduce water consumption rates

S.5.3 Maximize use and effectiveness of native South Platte supplies

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



Last Update: August 3, 2017

Matching Requirements: Basin Account Requests

Basin (only) Account grant requests require a 25% match (cash and/or in-kind) from the Applicant or 3rd 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)
Thunderbird Water & Sanitation District	\$5000 cash
Thunderbird Water & Sanitation District	\$500 In-Kind
Total Match	\$5500
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 3rd party (cash, in-kind, or combination). The remaining 30% of the required match may be provided from any other source (Basin, applicant, or 3rd 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):
Total Match	\$
If you requested a Waiver to the Statewide Account matching, indicate % you wish waived. (Max 50% reduction of requirement).	



Last Update: August 3, 2017

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.

None

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

None

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.

None

October 31, 2018

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Metro Roundtable Chairperson