AGENDA ARKANSAS BASIN ROUNDTABLE

Website: www.arkansasbasin.com
Email: arkbasinrt@gmail.com

Wednesday, January 8, 2020 Pueblo Convention Center

320 Central Main St., Pueblo, CO 81003

12:30 pm – 3:30 pm **Box Lunches** will be available at 12:00 for RSVP'd members 12:20 for guests

12:30-12:40 WELCOME AND INTRODUCTIONS – Mark Shea [10 min]

Introductions

Approval of minutes

Public Comment

12:40 – 12:40 **Reports** [60 min]

Executive Committee – Mark Shea (10 min)

CWCB Report – Ben Wade and Jack Goble (10 min)

IBCC Report – Jeris Danielson and Terry Scanga (10 min)

PEPO – Amber Weber and Jean Van Pelt (10 min)

Needs Assessment Committee – Abby Ortega (5 min)

Environmental and Recreational – Bob Hamel and Rena Brand (5 min)

Arkansas River Watershed Collaborative (ARWC) – Chelsey Nutter (10 min)

12:40 – 12:50 **Break** [10 min]

12:45 – 2:30 **Grant Applications [75 min]**

WSRF Grant Applications

- ARWC and PEPO: Engagement and BIP Project Development
- HCWCD 1: Bruce Canyon 50% Design
- HCWCD 2 (CWP): Maria Stevens 50% Design
- HCWCD 3: Maria Stevens 50% Design
- St. Charles Mesa: Cottonwood CID2 Diversion

Water Plan Grant Applications

- AGUA: Reservoir Purchase and Joint Loan Application
- Lower Ark: Soil Health Demo Plots

2:30 Other matters from the membership – Mark Shea

ADJOURNMENT

Upcoming Meetings

Arkansas Basin Roundtable – February 12, 2020 – ARWC Strategic Plan Workshop

Colorado Water Congress – January 29-31, Westin Westminster Subcommittees

• Enviro/Rec Comm. – January 27, 2019, Canon City BLM Office

PLANNING OUR WATER FIITURE

ROUNDTABLE MEETING NOTES

January 8, 2020 – Pueblo Convention Center, Pueblo, CO More information and presentations may be found at: www.arkansasbasin.com

Roundtable Business

Mark Shea called the meeting to order at 12:30 pm. Members and visitors introduced themselves. Twenty-nine (29) members were present.

Approval of minutes of prior meeting

The meeting notes of the November 2019 meeting were approved by consensus.

Public Comment

Ray Shaw, Wildlife artist from Huerfano County. Mr. Shaw asked about the Orlando Reservoir, money being spent on water projects near La Veta, and about possible plans for water projects on the north side of Huerfano County. Sandy White described Huerfano County projects and offered more information later.

Russ George:

Russ George is the new IBCC director and is visiting the roundtable meeting today. Godfather of the IBCC and the Roundtable process. Russ complimented the Arkansas Basin Roundtable on its work. Mark thanked Russ for attending the meeting and welcomed him.

REPORTS:

Executive Committee – Mark Shea

Jean Van Pelt has decided to wrap up her involvement with PEPO. We've been working towards this transition within the last year. Amber Weber has been working with Jean on PEPO. A special thanks to Jean.

BIP Process - Mike Weber

Mike described the timeline for hiring a local expert.

- o Prior to January 28th, each RT should have a list of preferred qualifications.
- o Post the RFQ request on each basin's website. Submittals will be due by Feb 28.
- o March 20th selection. Interviews if we like.
- April 10th hired
- o Working by end of April.

More info will be emailed to you as soon as RFQ is released. We have a small group within the Exec Comm that will review and make comments, and all of your comments are also welcome.

A lot of things are going to happen quickly. It will be important to keep our eye on the objective of the Basin Implementation Plan, which is to identify projects and methods to meet the needs of the Arkansas Basin. It is each members' responsibility to advocate for, and act as representative to their constituents. Good project list, with all info needed, so that your projects can be prioritized for funding. You are the first line of contact for your area, and you will be working with the local expert who can assist with valuing projects.



Arkansas Basin Roundtable

PLANNING OUR WATER FUTURE

CWCB Report - Jack Goble, Ben Wade

Jack – The CWCB's last meeting was in November. Water Plan grant applications were approved at that time. The deadline for the last round for this fiscal year is in February.

Projects included \$100 million: for the Arkansas Valley Conduit. The final piece of the Fry-Ark project. 10 million grant, 90 million loan. Hopefully will be the catalyst for federal funding that will allow this project to be constructed.

Ben Wade – A workshop on Colorado River Demand Management will be held during Water Congress, on January 29. The next workshop will be held in Salida on February 10th. More info can be found on the CWCB website, water management tab. The public is invited and welcome to attend and participate.

Water Supply Reserve Fund & Colorado Water Plan Grant Fund – Jack Goble (presentation)

Total WSRF Funds Received = \$101,648,419

Distribution:

State Account: \$67,273,864 (66%)

Basin Accounts: \$34,374,555 (34%) - \$3,819,395 to each basin

Colorado Water Plan Grant Approvals:

- Environment & Recreation
- Engagement & Innovation
- Conservation & Land Use
- Water Storage & Supply
- Agriculture

We're second only to South Platte/Metro Basins in CO Water Plan funding to-date.

IBCC Report

Jeris Danielson: The IBCC has not met since our last RT meeting. We will next meet on March 4 and 5, which will be a joint meeting with CWCB. The meeting will likely focus on CO River Demand Management.

Russ George: It's worth commenting on the relationship between the IBCC and CWCB. They intertwine and overlap. IBCC has not been officially engaged in the work groups, which are informal. CWCB provides staffing for IBCC. The IBCC has no budget itself. The demand management workgroup is separate from IBCC, but we're all from the same place. We recognize that conversation on demand management affects all of us in Colorado, especially during drought. We're all in this together. What is the key piece, while the workgroups are doing their job? We decided it's the part that talks about that no economic or geographical area should have more or less weight. The Equity conversation.

PEPO – Amber Weber

Amber thanked Jean.

\$10k remains from the grant that was used to build the new RT website. The grant requires tracking of the results of the funding. The Exec Comm has agreed to allow funding of social media. There will be a trial period of about a year. We see this as a valuable way to reach out to the public.

Needs Assessment - Abby Ortega

When the committee met on December 8, we had 8 requests, more than there was money for. We tweaked some of the projects, and one applicant has chosen to wait until the next round. More info after the break.

PLANNING OUR WATER FIITURE

Environment/Recreation Committee - Bob Hamel, Rena Brand

The committee did not meet in December. The next meeting will be held January 27th at 10:00 am, at the BLM offices Canon City.

Arkansas River Watershed Collaborative - Chelsey Nutter

Next month's roundtable meeting will be an ARWC workshop rather than a regular roundtable meeting. The workshop subject will be strategic planning. Please attend that workshop if you are interested.

- Grant app revisions are being made regarding the Spring Creek Fire. Updated, new budgets, new SOW. A
 little more modeling and engineering up front. Phase 3 application. A 2020 application will be guided by
 that engineering and modeling.
- Chelsey is assisting where she can for Fremont County post-fire recovery projects.
- Monarch Cut to Length fuels mitigation project. They are meeting with preferred contractor in January.
- Chelsey is working a lot with the water forum this year. She will have several presentations, including one for the VIP dinner.

BREAK

PROGRAM - Please check out full presentations at www.arkansasbasin.com.

WSRF GRANT APPLICATIONS - Abby Ortega

ARWC and PEPO Engagement and BIP Project Development - Chelsey Nutter

Basin Funds \$ 89,892
 Statewide Funds \$ 255,182
 Matching (cash & in-kind) \$ 39,000

- 1. Forest Health Fuels Mitigation Projects
- 2. Post Fire Recovery Deckers Fire
- 3. Basin Support ABRT, BIP, Sub-Committees & Member Support

This application moved forward to CWCB by consensus.

Huerfano County Water Conservancy District 1: Bruce Canyon 50% Design - Sandy White

Basin Funds \$ 17,643
 Statewide Funds \$ 35,286
 Matching (cash) \$ 17,643

This application moved forward to CWCB by consensus.

HCWCD2 (CWP): Maria Stevens 50% Design

•	Basin Match (see below)	\$ 17,500
•	CO Water Plan Grant	\$ 35,286
•	Matching (cash)	\$ 17,786



PLANNING OUR Water future

This application was approved for a letter of support from the Arkansas Basin Roundtable.

HCWCD3: Maria Stevens 50% Design

Basin Funds \$ 17,500Matching (cash) \$ 4,375

This application moved forward to CWCB by consensus.

St Charles Mesa: Cottonwood CID2 Diversion - Gracy Goodwin

Basin Funds \$ 10,040
 Statewide Funds \$ 100,400
 Matching (cash & in-kind) \$ 73,560

This application moved forward to CWCB by consensus.

WATER PLAN GRANT APPLICATIONS

AGUA: Reservoir Purchase and Joint Loan Application – Kevin Niles

CO Water Plan Grant \$ 500,000
 CWCB Loan \$ 3,000,000

This application was approved for a letter of support from the Arkansas Basin Roundtable.

Lower Arkansas Valley Water Conservancy District (LAVWCD): Soil Health Demonstration Plots - Amber Weber

CO Water Plan Grant \$ 200,000
 Matching \$ 200,000

This application was approved for a letter of support from the Arkansas Basin Roundtable.

Admin Email: ARKBASINRT@GMAIL.COM MEETINGS/LINKS:

- Next Meeting February 12, Pueblo Community College
- Env/Rec Committee January 27, 10 am, Canon City
- Arkansas Basin Roundtable: www.arkansasbasin.com
- PEPO: www.pepoarkbasin.com
- Arkansas River Basin Water Forum: http://www.arbwf.org/
- CWCB: http://cwcb.state.co.us/Pages/CWCBHome.aspx
- Colorado Water Plan: http://coloradowaterplan.com/
- Colorado Flood Threat Bulletin: www.coloradofloodthreat.com
- Stream Management Plan Resource Library: https://coloradosmp.org/

ARKANSAS BASIN ROUNDTABLE

EXECUTIVE COMMITTEE

Agenda

Wednesday, January 8, 2019 Start Time: 10:30 am Pueblo Convention Center 320 Central Main St., Pueblo, CO 81003

Greetings and necessary introductions

Minutes/Notes of the previous meeting

Reoccurring matters:

- Chair Comments Mark Shea
 - Oral Histories with Colorado Water Leaders
- Other Outstanding Reports Any executive member

New Business

- ABRT BIP Update/Local Expert
 - o Follow Up from December

Work Session

None

Old Business

• None

Needs Assessment Meeting

None

ARWC Board Meeting

• Chelsey Nutter

Roundtable Business:

• Today's Roundtable Agenda - review and revise as necessary

Upcoming Meetings

- Arkansas Basin Roundtable February 12, 2020 ARWC Strat Plan Workshop
- Subcommittees
 - o Enviro/Rec Comm. January 27, 2019, Canon City BLM Office
 - o Colorado Water Congress January 29-31, Westin Westminster

Adjourn to lunch

Committee membership: Mark Shea (Ch), Bob Hamel (VCh-NonC), Mike Weber (VCh-Cons), Mike Fink (R), Sandy White (Past-Ch), Jack Goble (CWCB), Jeris Danielson (IBCC), Terry Scanga (IBCC), Tim Canterbury (IBCC Alternate), Amber Shanklin (Environmental), Abby Ortega (Needs Assessment), Amber Weber (PEPO)

PLANNING OUR WATER FUTURE

Executive Committee Meeting Notes January 8, 2020 – Pueblo Convention Center, Pueblo

www.arkansasbasin.com

Executive Committee Present:

Mark Shea – Chair; Mike Weber – Vice-Chair Consumptive; Bob Hamel – Vice-Chair Enviro/Rec; Jeris Danielson, Terry Scanga & Tim Canterbury - IBCC; Abby Ortega – Needs Assessment Committee; Amber Weber – PEPO; Sandy White – Past Chair; Jack Goble & Ben Wade - CWCB; Chelsey Nutter – ARWC; Paul Fanning – Legislative Appointee

Executive Committee Absent and Excused:

Amber Shanklin, Vice Chair Enviro/Rec Committee; Mike Fink – Recorder

Guests Present:

Al Tucker, Alan Ward, Gracy Goodwin - Upper Ark, Russ George – IBCC; Elise Bergsten – RT Secretary

<u>Call to Order:</u> Chairman Mark Shea called the meeting to order at 10:30. Greetings and introductions were performed.

Minutes: Consensus approval of the December 11, 2019 minutes.

Chair Comments - Mark Shea

- Jean Van Pelt is retiring from her PEPO duties. Mark expressed our deep gratitude for her work in the Arkansas Basin. Members agreed that they'd like to present a symbol of recognition to lean
- Mark would like the Exec Committee to discuss the RT relationship with the Arkansas River Basin Water Forum.
- Oral Histories with CO Water Leaders have received some suggestions by email. More now?
 - Gary Barber
 - Ken Baker upper basin
 - Sandy White
 - Jeris Danielson
 - Terry Scanga
 - Jay Winner
 - Alan Hamel
- Members agreed to choose two by emailing a survey to the membership and interested parties.
 It will include the above-listed candidates, others that have been emailed in and will also include a write-in opportunity.

ABRT BIP Update/Local Expert

Mike had a conversation with Russ Sands & Greg Johnson. They are putting together a packet of support materials, including a sample RFQ.

Packet of support materials will be available by the end of this week. It will include core values and a scoring guide. We can add to it.

Arkansas Basin Roundtable

PLANNING OUR WATER FUTURE

Timeline:

- Prior to January 28th, each RT should have a list of preferred qualifications.
- Post the RFQ request on each basin's website. Submittals will be due by Feb 28.
- March 20th selection. Interviews if we like.
- April 10th hired
- Working by end of April.

Discussion Points Made:

- We're a little ahead of the game with Sandy's Scope of Work.
- Who wants to work on the RFQ preferred qualifications by January 28?
- Needs are quite varied in small communities, which will likely need more assistance in determining needs and identifying projects.
- There will be a lot of driving involved. Will need to reach out across the basin.
- What are the projects that will meet the current and future needs of the basin?
- How do we use what we have to meet our current and future needs?
- How do we take into consideration population growth?
- We need someone who can get out quite a bit and get that information from our constituents.
- How can we put it together as effectively as we can? Can we use resources available within the basin so that we're not paying someone to drive from Denver each time outreach is happening?
- \$290,000 over 2 years.
- Plan A discuss with RT members first! Outreach is Plan B. Roundtable members must gather as much information as possible themselves.
- Need to have a pretty rigid winnowing process in order to include projects that can really be done.
- Need yield and cost information, which will be challenging for small communities.
- There is a grant app today that will support the BIP process, with Chelsey focusing on the upper basin and Amber focusing on the lower basin.
- Enviro/Rec: work has begun on ranking of projects.
- On the Ag side, we've looked at economic output in the past. We promised ourselves that we would update this information.
- Re Enviro/Rec all the money could go to fire mitigation, and the cost varies. Everything changes every time there is a fire.
- The metrics for measuring success for projects that don't have a yield do exist already in the Colorado Water Plan.
- Pre vs Post-Event planning. How can we get out ahead and not just be reacting to circumstances? Fire, flood, water quality, population growth
- Is there an opportunity to work with CSU-Pueblo? Perry Cabot example.
- We will need to address the Scoring Matrix, which is designed for large municipal projects.

A sub-committee was formed to finalize the RFQ once the materials are received by the end of this week. Analysis of RFQ and suggested edits. They will provide input to CWCB regarding the RFQ.

Mark Shea, Mike Weber, Bob Hamel, Sandy White, Terry Scanga, Amber Weber. Will send the draft to the Exec Comm once we've received the RFQ packet. Input back to CWCB by the 15th.



Arkansas Basin Roundtable

PLANNING OUR WATER FUTURE

Other RT Business

IBCC - Russ George

Always ask yourself why this use of the public's money is justified. Keep an eye out for the legislation that makes rules for Sports Gambling, because money could still be taken away from water.

All blessings to the lovely folks that are RT members, and all those who attend the meetings, stay involved and interested, and keep the roundtable process dynamic.

PEPO – Amber Weber

The WSRA Grant for website improvements has about \$10k remaining. She would like to spend that money to hire someone to work 10 hours per week to make social media posts. This would be supervised posts, especially when questions are asked. This would tie in well to the Education to Action plan currently being formed. Exec Comm members were in consensus to approve this proposal.

Dwayne McFall will take over as Fremont County rep from Tim Payne as of next month.

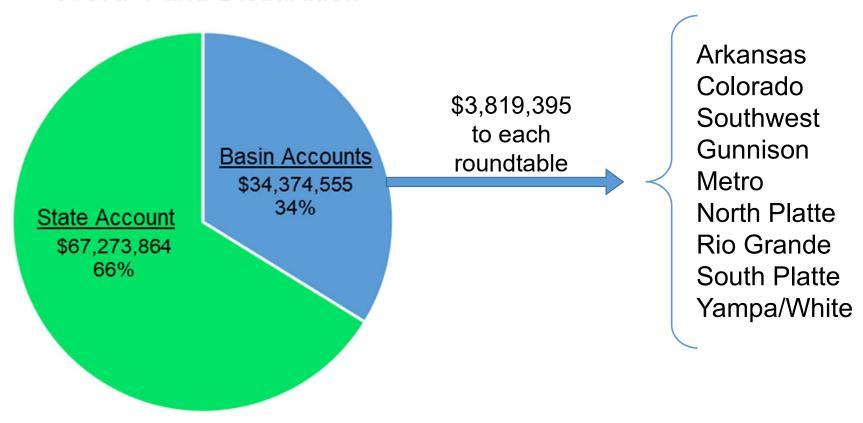
Note: The ARWC board meeting that is included within the Exec Comm meeting will be moved to the beginning of the Exec Comm meeting as of next month.

Meeting adjourned at ~ 12:00 pm.

Water Supply Reserve Fund & Colorado Water Plan Grant Fund

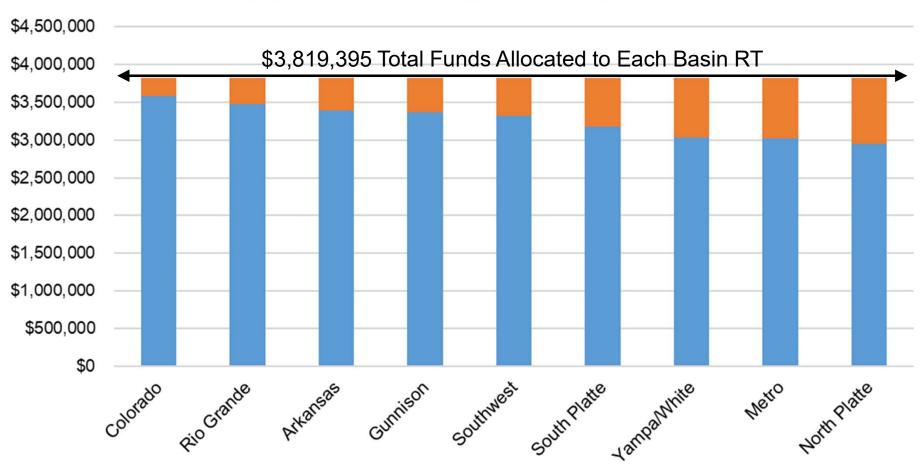
Total WSRF Funds Received = \$101,648,419

WSRF Fund Distribution



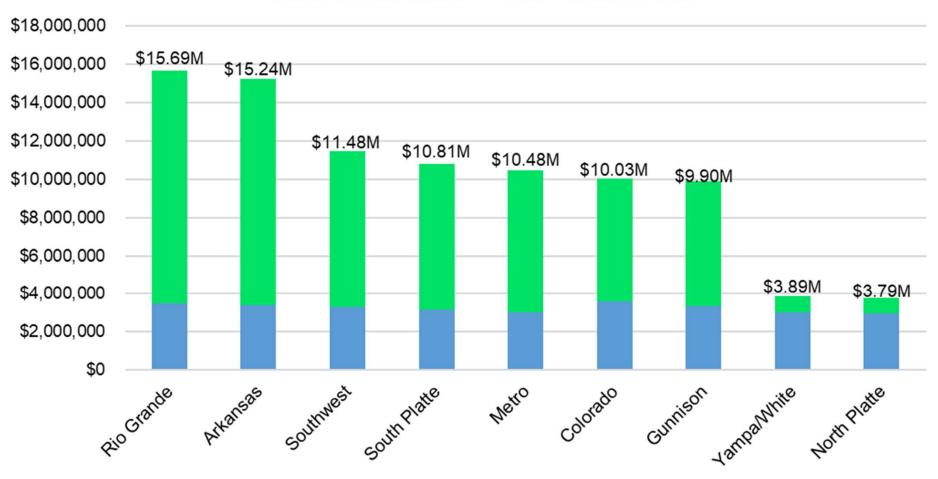
WSRF Basin Account Summary (as of 1/1/2020)



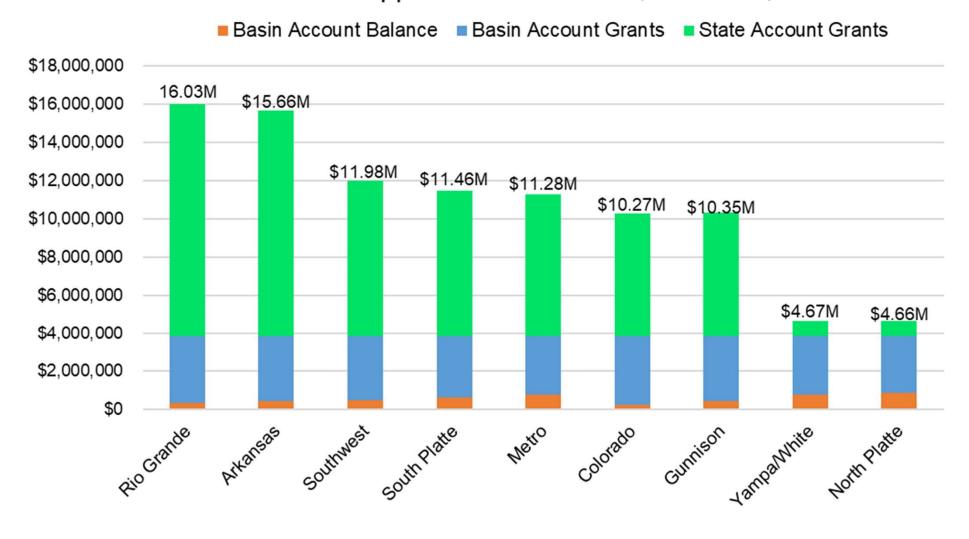


WSRF Grant Approvals (as of 1/1/2020)

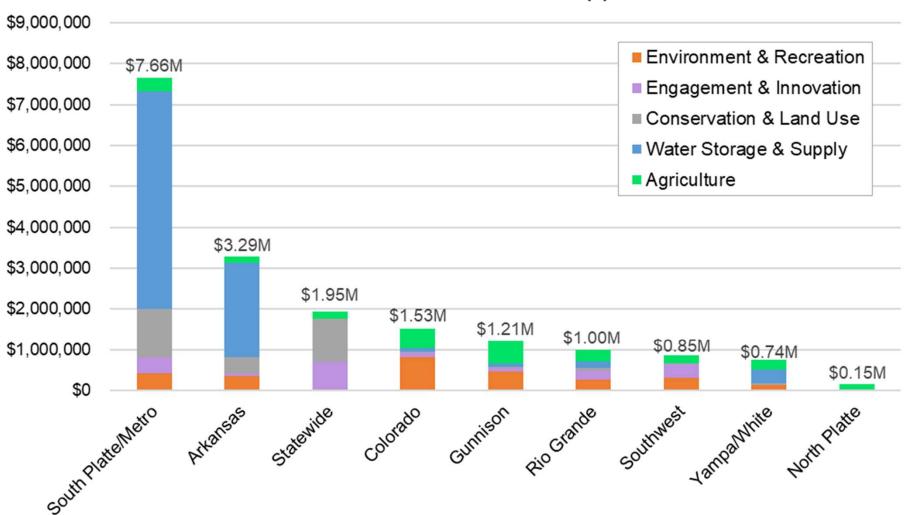
■ Basin Account Grants ■ State Account Grants



WSRF Grant Approvals + Balances (as of 1/1/2020)



Colorado Water Plan Grant Approvals



ARKANSAS BASIN FIRE, FLOOD &





Position ARW C as a Basin leader for fuels mitigation projects and post-fire recovery response



Uniquely positioned to provide input from the water community and act as a liaison for Federal, State, and Local pre and post-fire projects



Continue to support the Roundtable, Sub-Committees, and Basin Members on Project Development and Implementation



Funding gap exists between identifying the need and implementing the project (Scoping, Project Development, Funding, Grant Writing)



Support from the ABRT is essential to position ARW C as a resource for Basin Communities in project development and implementation

PURPOSE & NEED



Position ARW C as the go-to resource for Forest Mitigation and Post-Fire Recovery Work.



Leverage funding from this grant to continue to build support for ARW C's services to support communities between need identification and project implementation.



Create an Upper Basin & Lower Basin Partnership to efficiently and effectively meet the needs of the ABRT & Basin Communities



Align objectives and strategies (ARWC, PEPO, Upper/Lower) to meet the Roundtable's watershed health, education, and project development needs



Work together to continue to provide operations and execution of Roundtable activities including sub-committees and BIP update

STRATEGY

OBJECTIVES

Act as a Basin Leader for Forest Health & Post-Fire Act Recovery and Locally Identified Project Development Develop at least 2 large-scale, multi-jurisdictional fuels Develop mitigation projects that expand jurisdictions Support Chaffee County with Post-Fire Recovery for Support Decker Fire Provide guidance and assistance to Basin Communities on Provide locally driven project development Support the functions and address the needs of the Support Roundtable, sub-committees, and the BIP update process Provide education, outreach, and communications Provide throughout the Basin

FOREST HEALTH

FOREST HEALTH FUELS MITIGATION

- Cross jurisdictional boundaries & build off existing projects and partnerships
- Serve as a liaison between federal, state, local, and private partners to build critical fuels mitigation projects in the most wildfire prone landscapes
- Develop at least 2 large-scale multi-agency mitigation projects that are ready to move into the implementation phase & focus on water resources
 - Stakeholder Engagement
 - Project Scoping
 - Mapping and Preliminary Design
 - Funding Development
 - Grant Writing
 - Contracting and Permitting
 - Upper Basin Reservoirs and Headwaters, Cucharus River Basin & Pueblo YMCA

POST FIRE RECOVERY

POST-FIRE RECOVERY (DECKER FIRE)

- Assist Chaffee County with Post-Fire Recovery Management
- Serve as a liaison between government and landowners to build relationships and move forward with recovery initiatives
- Help Chaffee County government and landowners navigate post-fire
 - EWP, CWCB, CDPHE, EQUIP, and other assistance programs
- Provide essential "boots on the ground" recovery project development/ management services
 - Lead Local Recovery Meetings & Engage Stakeholders
 - Act as a Consultant to the County for Project Development & Scoping
 - Provide Initial Mapping, Modeling, and Assessments
 - Act as a Liaison Between Landowners and Government Agencies
 - Assist with Navigating Recovery Programs
 - Lead Efforts for Contracting Permitting ITEs and O&M Agreements

TASK 3 BASIN SUPPORT

ABRT, BIP, SUB-COMMITTEES & MEMBER SUPPORT

- Develop an Upper Basin & Lower Basin Partnership to meet Basin needs
- Provide oversight, guidance, and assistance with the BIP update
- Provide continued leadership and assistance for Roundtable & Sub-committees
 - Executive Committee, Needs Assessment, Enviro/Rec, LAW Q W G, ARBW F
- Partner with PEPO to provide education, outreach, and communications
 - Provide Monthly Workshops during interim meeting dates
 - Provide a quarterly newsletter on Basin activities, projects, etc.
- Provide guidance and direction to Ark. Basin Communities in the development of locally identified projects
 - Stakeholder engagement, project scoping, funding analysis, grant writing, consulting,

CURRENTLY IDENTIFIED PROJECTS & NEEDS

Identified Needs and Potential Future Projects

- Water Advisory Council Development (Lake)- Lake County BOCC
- Augmentation and Multi-Use Storage (Lake)- Lake County BOCC
- Water System Improvements and Protection- Fuels Mitigation (Lake)- Parkville Water,
 Lake County BOCC
- Expansion of Fuels Mitigation projects at Turquois Reservoir and Twin Lakes (Lake) -USFS, CSFS, Co Springs Utilities, Lake County BOCC
- Expand Monarch Pass Project (Fuels Mitigation) to Include Phase 3 (Chaffee)-USFS
- Poncha Loop Fuels Mitigation (Chaffee) -USFS
- South Arkansas Integrated Water Management Plan (Chaffee) -UAWCD, Local Partners
- Decker Fire Recovery (Chaffee)- Chaffee County BOCC, UAWCD
- Fuels Mitigation (Fremont)- Fremont BOCC
- Stormwater (Fremont)- Fremont BOCC
- Collaborative Development Water Education and Outreach (Fremont)- Canon City White Water
- Canon City River Restoration, Planning, and Management (Fremont)- Fremont BOCC, Env. Rec, City of Canon City
- Fuels Mitigation YMCA Camp David (Pueblo)- Pueblo YMCA
- Fuels Mitigation (Pueblo) -USFS
- Fuels Mitigation Cucharas River Basin- USFS, SPA
- Soil Health and Soil Health/ Forest Health Nexus- LAVWCD
- Amity Multi-Purpose Storage Project -Amity Mutual Ditch CO, CPW
- Many More to Come!

BUDGET

Task No. (1)	<u>Description</u>	Start Date ⁽²⁾	End Date	Matching Funds (cash & in-kind) ⁽³⁾	WSRF Funds (Basin & Statewide combined) ⁽³⁾	<u>Total</u>
	Fuels Mitigtion Project Development	6/1/2020	12/31/2021	\$ 14,000	\$ 100,950	\$ 114,950
1 7	Post-Fire Response & Recovery (Decker Fire)	6/1/2020	12/31/2021	\$ 25,000	\$ 91,950	\$ 116,950
1 3	Roundtable, BIP, and Member Support	6/1/2020	12/31/2021	\$ -	\$ 134,771	\$ 134,771
4	Grant Administration	6/1/2020	12/31/2021	\$ -	\$ 17,403	\$ 17,403
	Total				\$345,074	\$384,074

Statewide Request	\$	255,182		
Basin Roundtable Request = 66.7% of task 3	\$	89,892	% of State	35%
Chaffee County Post-Fire Match	\$	25,000		
Colorado Springs Utilities Forestry Match	\$	5,000		
Pueblo Board of Water Works Forestry Match	\$	5,000		
Upper Arkansas Water Conservancy District Match		1,000		
Lake County BOCC Match	\$	1,000		
Parkville Water District (Lake County) Match	\$	1,000		
Huerfano County Water Conservancy District Match	\$	1,000		
Total Basin + Water Provider/ Partner Match=	\$	128,892	% of State	50.51%
Total Project	\$	384,074		

ARKANSAS GROUNDWATER USERS' ASSOCIATION RESERVOIR PROJECT

AGUA RESERVOIR CO.

Arkansas Basin Round-table January 8, 2020



Presented by: Kevin W. Niles General Manager

Let us have a splendid legacy for our children... let us turn to them and say 'this you inherit and guard it well, for it is far more precious than money... and once it is destroyed, nature's beauty cannot be repurchased at any price.'

Ansel Adams

BACKGROUND

- * STONEWALLQUARRY SELLER OF 2000 AF STORAGE VESSEL (LOCATION HWY 96)
- * NEW COMPANY TO BE ESTABLISHED AGUA RESERVOIR COMPANY (2000 SHARES ISSUED)
- * AGUA TO PURCHASE 1000 AF OF PERMANENT STORAGE (OFF THE EXCELSIOR DITCH)
- * AGUA WILLOWN 1000 SHARES / OTHER ENTITY WILLOWN 1000 SHARES
- * PURCHASE PRICE \$3,500 PER SHARE (TOTAL 3.5 MILLION DOLLARS)
- * GRANT FROM COLORADO WATER PLAN (CWCB) \$500,000
- * TOTALIOAN \$3 MILLION (COLORADO WATER CONSERVATION BOARD/ CWCB)
- * 30 YEARS @ 2.00% INTEREST = TOTALANNUALIOAN PAYMENT\$135,289

- PURPOSE (REASONS FOR PURCHASE)
 - * AGUA HAS LOST ALMOST 8,000 AF OF EXCELSIOR WATER IN PAST 4 YEARS NO STORAGE AVAILABLE
 - * CURRENTLY ONLY USING RECHARGE PONDS AND TEMPORARY STORAGE IN PUEBLO RESERVOIR (SPILL THREATS 3 X YEARS IN A ROW)
 - * ALLOWS FOR BETTER ACCOUNTING AND PREDICTED SOURCES AVAILABLE
 - * ALLOWS AGUA TO MANAGE DECREED AUGMENTATION PLANS MORE EFFECTIVELY AND RULE 14 PLAN
 - * POSSIBLE FUTURE GROUNDWATER RULES PROMULGATED BY DWR DIVISION ENGINEER
 - * CREATES ADDITIONAL ASSET TO AGUA (EXCELSIOR DITCH AND AGUA RESERVOIR)
 - * ALLOWS FOR BETTER CONTROL OF EXCELSIOR WATER
 - *POSSIBLE REVENUE BASED ON LEASING SPACE TO OTHER WATER COMPANIES
 - * CREATES AND ADDITIONAL WATER RIGHT FOR AGUA (DECREED STORAGE RIGHT 16CW 3093)
 - * ALIGNS WITH THE COLORADO WATER PLAN (ADDITIONAL 50,000 AF STORAGE BY 2050)

- DETAILS AND SPECIFICATIONS
 - * REGISTERED VOTE OF OVERALL AGUA MEMBERSHIP (MAJORITY RULES)
 - * AGUA BOARD OF DIRECTORS TO RAISE ANNUAL DUES FOR 2021 (PER AGUA BYLAWS)
 - * OPERATIONS AND MAINTENANCE DONE BY AGUA (ANNUAL BILLED MANAGEMENT AGREEMENT)
 - * SWSP 2020/ COURT CASE FILED WITH THE STATE TO RUN EXCELSIOR WATER TO RESERVOIR
 - * INLET AND OUTLET INFRASTRUCTURE BUILT BY SELLER (COMPLETE TURN-KEY OPERATION)
 - *ADDITIONAL STORAGE MAY BE BUILT BY STONEWALL AND AVAILABLE FOR AGUA TO PURCHASE
 - * POSSIBLE REVENUE GENERATED BY LEASING STORAGE SPACE AND CONVEYANCE FEES TO USE THE EXCELSIOR DITCH
 - * WATER TO BE STORED STARTING 2020 AND LOAN REPAYMENT STARTING 2021

CONCLUSION

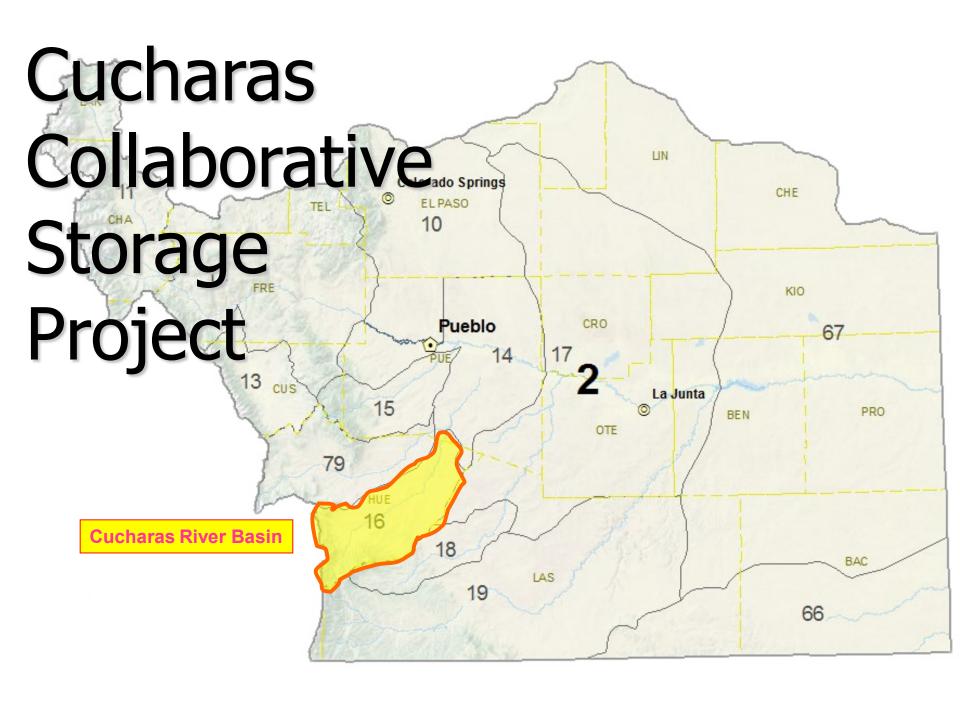
- * SO FAR 85% OF MEMBERSHIP POLLED HAS VOTED (YES)
- * ALL MEMBERS MUST VOTE ON THE PROJECT (YES/NO)
- * THIS PURCHASE WILL STRENG THEN AGUA'S WATER AND FINANCIAL PORTFOLIO
- * PROJECT HAS COMPLETE SUPPORT BY AGUA BOARD OF DIRECTORS
- * AUGMENTATION ASSOCIATIONS WILLNEED PERMANENT STORAGE IN THE FUTURE
- * STORAGE WILL BE VITAL TO THE LONG-TERM SUCCESS OF AGUA
- *ADDITIONAL ASSETS INCREASES THE VALUE OF AGUA AND THEIR OUTSTANDING SHARES
- * AGUA WILLBE ONE OF THE THE FIRST ASSOCIATION TO OBTAIN AND OPERATE PERMEANT STORAGE
- * THE BEST GIFT YOU CAN GIVE TO THE COMING GENERATION IS WATER
- *YOU NEVER KNOW THE WORTH OF WATER UNTIL THE WELL RUNS DRY

• QUESTIONS AND OR COMMENTS???



Image: Not of actual vessel





Background

Cucharas Basin Storage Collaborative

Cucharas Storage Collaborative since 2015

State

- DWR Div 2
 - LOTS of in-kind
- CPW
- CSFS

<u>Federal</u>

- USFS
- NRCS

\$\$ Contributors:

- Cuchara S&WD
- Town of La Veta
- City of Walsenburg
- HCWCD
- Maria Lakes Grazing Assn
- LVFPD
- HCFMLD
- Huerfano BOCC

13 meetings

Timeline (1)

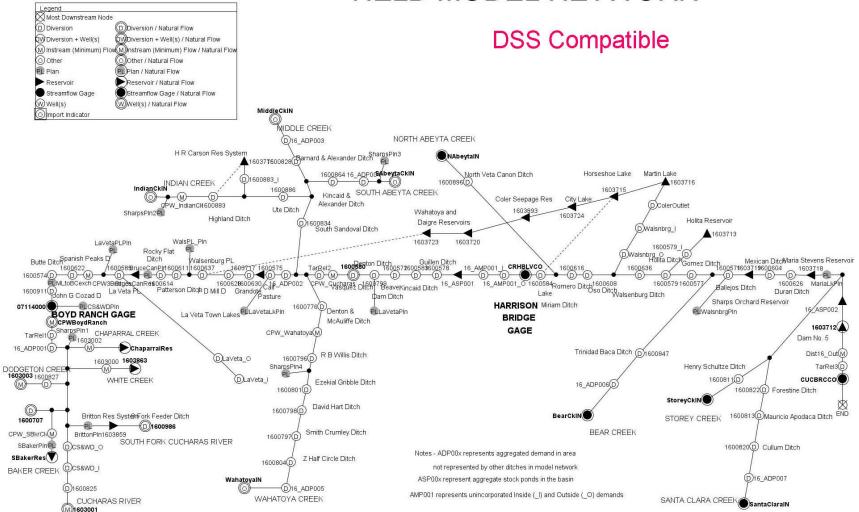
- 2013 DEO/DSB recommend collaborative storage project
- 2014 HCWCD study: 70% storage capacity loss since WWII
- 2015 Collaborative formed
- 2015 2017, Storage Study (Ph 1, \$250K)
 - 2K af Muni storage gap
 - 15K+ af Ag storage gap
 - Storage sites, winnowing: 70 -> 28 -> 15 -> 5
 - Feasibility design for 5 "preferred" sites
 - DSS yield model

Timeline (2)

- 2017 Water Ct Appl, storage + exchange (\$210K+ thru Oct)
- 2017 Geotechnical Investigation, 5 sites (Ph 2, \$134K)
- 2017 Add'l geotech investigation, 3 sites (Ph 3, \$43K)
- 2018 30% design 3 sites (Ph 4, \$50K)
- 2019 50% design 2 sites, (Ph 5, \$141K)
- 2020 Water Ct trial...

CUCHARAS COLLABORATIVE STORAGE STUDY

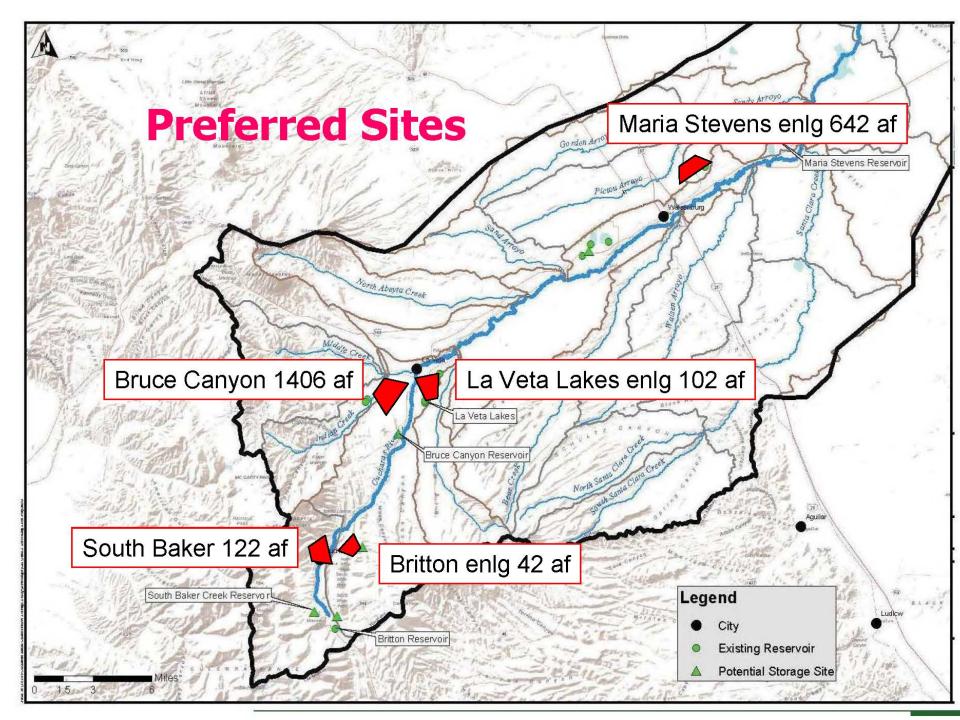
YIELD MODEL NETWORK



Screening Matrix

Enlargement of Existing Storage	Weighted Score	Rank
Britton Ponds Enlargement (42 AF small dam)	40	18
Britton Ponds Enlargement (239 AF large dam)	41	16
La Veta Lakes Enlargement	55	3
HR Carson #1/#2 combined storage	47.5	8.5
Daigre Reservoir enlargement	46	12
City Lake (unrestricted)	47.5	8.5
City Lake (enlargement)	45.5	13.5
Holita Reservoir Rehabilitation	55	3
Maria Stevens Rehab/Enlargement	55	3
Horseshoe/Martin Joint Use Pool	45.5	13.5

New Storage Projects	Weighted Score	Rank 17	
South Baker Creek Reservoir	40.5		
Chaparral Creek Reservoir	47	10	
Bruce Canyon Reservoir	56	1	
Coler Seepage Reservoir	46.5	11	
White Creek Reservoir (500 AF)	50.5	6.5	



Preferred Sites

Reservoir	Capacity (ac-ft)	Ave Yield (ac-ft per yr)
Britton	42	42
South Baker Creek	122	54
Bruce Canyon	1,406	677
LV Lakes	102	102
Maria Stevens	642	1,206
Total	2,314	2,081

"Preferred" Reservoir Costs Feasibility level

Reservoir Alternative / Storage Capacity	Project Cost ^{1,2}	Unit Cost (\$/ac-ft Capacity)
Britton Ponds Enlargement (42 AF)	\$6,577,340	\$156,602
South Baker Creek Reservoir (122 AF)	\$13,101,600	\$107,390
La Veta Lakes Enlargement (102 AF)	\$6,621,300	\$64,915
Bruce Canyon Reservoir (1406 AF)	\$19,184,100	\$13,644
Maria Stevens Rehab/Enlargement (642 AF)	\$8,406,300	\$13,094

Reservoir Alternative / Storage Capacity	Delivery (ac-ft/yr)	50-Yr cost ^{1,2} (\$/ac-ft/yr)
Britton Ponds Enlargement (42 AF)	22	\$5,979
South Baker Creek Reservoir (122 AF)	54	\$4,852
La Veta Lakes Enlargement (102 AF)	102	\$1,298
Bruce Canyon Reservoir (1406 AF)	622	\$617
★Maria Stevens Rehab/Enlargement (642 AF)	271	\$620

Who paid for all this? So far....

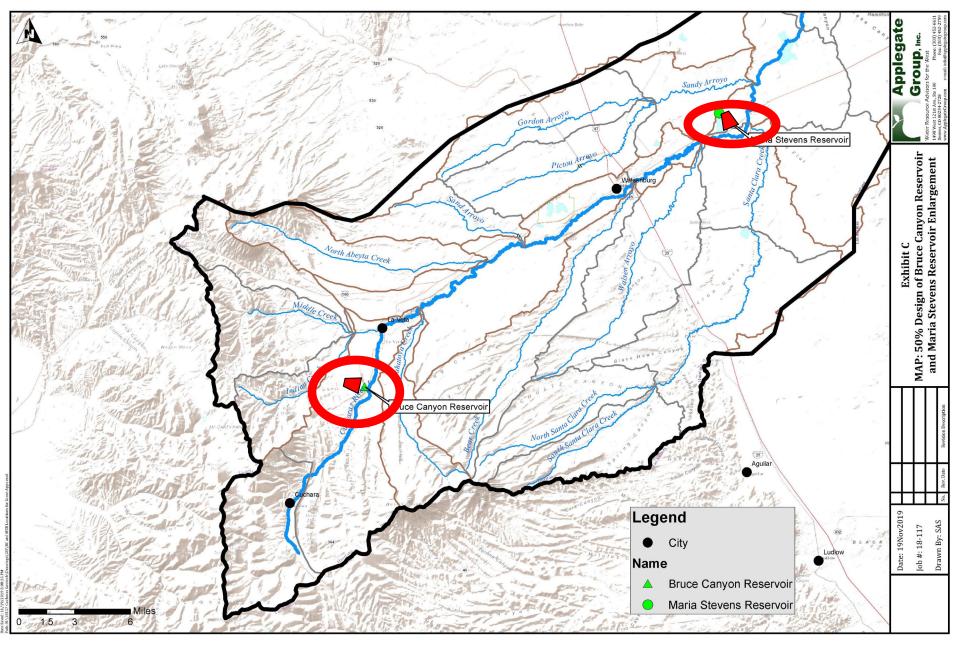
CWCB

WSRA	\$357,277	
CWP	\$16,786	
Total CWCB	\$374,063	78%
Matching		
HCWCD	\$31,237	
BOCC	\$13,000	
CSWD	\$13,000	
La Veta	\$12,000	
Walsenburg	\$5,000	
HCFMLD	\$10,000	
LVFPD	\$3,000	
Maria Lake GA	\$15,331	
Total Local Match	\$102,568	22%
Total all sources	\$476,631	

12

Current Applications

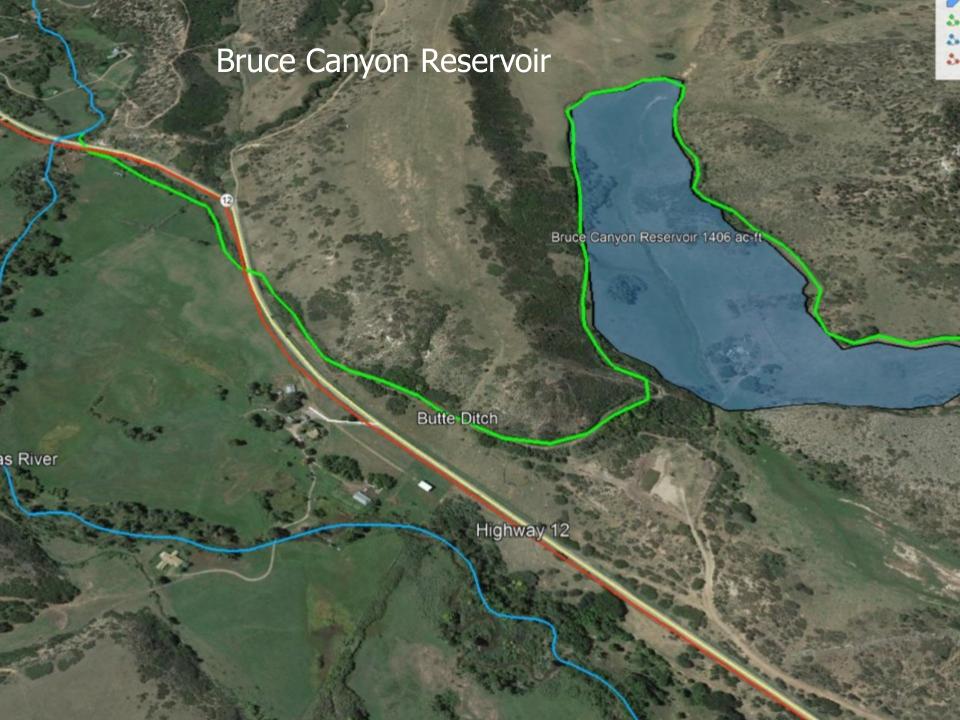
- 50% design, including geotech
 - -Bruce Canyon Reservoir
 - –Maria Stevens Reservoir Enlargement
- Total project cost: \$141,144
 - $-\frac{1}{2}$ each



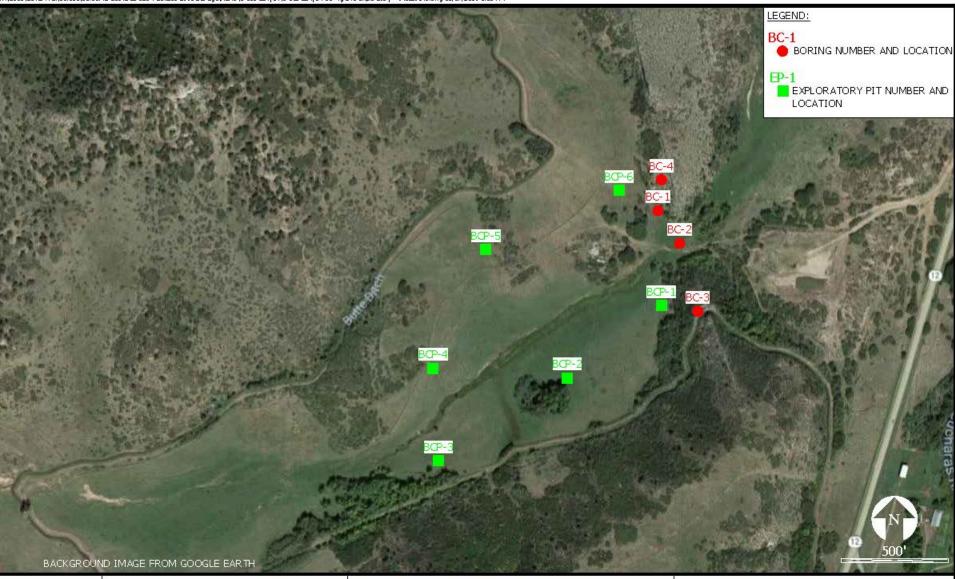


Bruce Canyon Reservoir site









PROJECT NO:	18.117

PROJECT NAME: Cucharas Basin Collaborative Storage

DRAWN BY: KNZ CHECKED BY: JAC2

DWG DATE: 10.11.18 REV. DATE: 10.17.19

FIGURE 14

Bruce Canyon Reservoir Locations of Borings and Exploratory Pits



Grant Applications

50% Design, including geotech

- Total project cost: \$141,144 (1/2 each)
- Bruce Canyon, 1406 af, \$70,572
- HCWCD-1, WSRF
 - \$35,286 state-wide account
 - \$17,643 basin account
 - \$17,643 local cash match

SOW

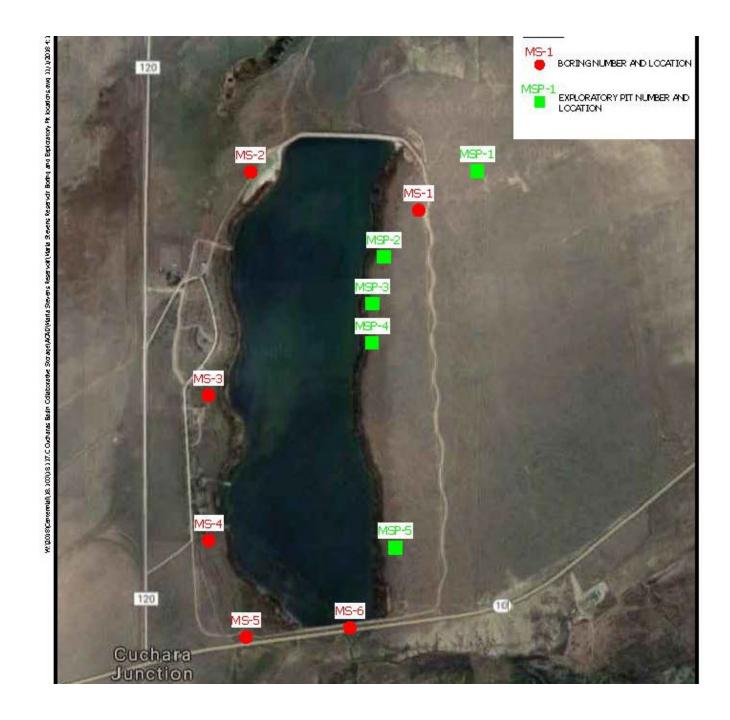
- 1: Geotechnical analysis [50%]
- 2: Hydrologic analysis (IDF, routing) [8%]
- 3: 50% design, DSB [32%]
- 4: Present results to Collaborative [3%]
- 5: Administration [7%]

Maria Stevens - Current



Maria Stevens Reservoir Enlargement







Maria Steven Reservoir Enlargement, 642 af

- 50% design, \$70,572
- HCWCD-2, CWP Grant (storage)
 - \$35,286 CWCB
 - \$17,786 local cash match,
 - \$17,500 basin account
- HCWCD-3, WSRF
 - \$17,500 basin account
 - \$4,375 local cash match
- SOW same as Bruce Canyon Reservoir

Summary Amounts

- \$35,143: WSRF basin accout [24.9%]
- \$35,286: WSRF state-wide acct [25.0%]
- \$35,286: CWP grant [25.0%]
- \$35,429: Local cash match [25.1%]
 \$144,144: Total project cost

Local Cash Matches

for these grants

	(
Contributing	HCWCD-1	HCWCD-2	HCWCD-3	Total	
Entity	WSRA-BCR	CWP-MSRE	WSRA-MSRE	TOLAT	
ВОСС	\$5,000	\$4,000	\$0	\$9,000	
MLGA \$0		\$5,411	\$0	\$5,411	
CSWD	\$2,500	\$0	\$0	\$2,500	
LV	\$5,000	\$0	\$0	\$5,000	
HCWCD	\$5,143	\$4,000	\$4,375	\$13,518	
		Total local cash match		\$35,429	



Actual Local Match

[including litigation legal and engineering]

- CWCB \$479,748 (58%)
- Local Match \$347,997 (42%)

- Unemployment
 - **-7.6%**
 - -2.6% State
- Median HH Income
 - **-\$35,800 (55%)**
 - \$65,458 State
- Median home value
 - **\$137,400 (48%)**
 - \$286,100 State

COLLABORATIVE STORAGE PHASES:

		Calendar Year(s)	Phase Costs	Cumulative Costs	Comments
1	Feasibility Study [part of initial investigation]	2015-2017	\$250,000	\$250,000	WSRF+local; resulting in 5 <i>preferred</i> reservoir sites identified: BPE, SBC, BCR, LVLE, MSRE
2	Initial Geotechnical Investigation	2017-18	\$133,557	\$383,557	WSRF+local; all preferred sites
3	30% design, SBC; Geotech for SBC + BCR	2018-19	\$60,045	\$443,602	WSRF+local
4	30% design for MSR + BCR	2018-2019	\$32,000	\$475,602	CWP+local
<u>-</u>		e e	<mark>=</mark>		Costs includes both BCR and MSRE hereafter
5	50 % design for BCR and MSR with EOPC	2020-2021	\$141,144	\$616,746	CWP/WSRF/+local?? Will take 1 year from NTP/PO which is expected c. 7/2020
6	90% design	2021-2022	c. \$200,000	c. \$816,746	c.\$100K/dam. Funding: CWCB WSRF/CWP/+local, EDA, USBOR waterSMART, CWCB's TAFC?
7A	Final design	2022?	c. \$80,000	c. \$896,746	c.\$40K/dam. Funding: CWCB WSRF/CWP/+local, USBOR waterSMART, CWCB's TAFC?
7B	Permitting	2022-2024?	c. \$600,000	c. \$1,496,746	SWAG: per dam \$120K/dam - \$1M/dam
7C	Land acquisition	2022-2024?	c. \$1,195,000	c. \$ 2,691,746	SWAG: MLGA, \$963K per appraisal of right to enlarge (8/13/2019); BCR, 62 ac x \$2.5K/ac x 1.5 = \$232K
8A	Bidding, contractor selection, and construction	2024-2027?	c. \$27,600,000	c. \$ 30,291,746	SWAG! Funding: CWCB WPLF?, CWP, WSRA/WPG/+local; EDA, Fed'l Infrastructure Bill?? MSR (feasibility) construction only, \$8.4M; BCR (feasibility) construction only, \$19.2M
8B	Construction Engineering	2024-2027?	c. \$160,000	c. \$ 30,451,746	SWAG: \$80,000/dam; CWCB WPLF?, CWP, WSRA/WPG/+local; EDA, Fed'l Infrastructure Bill??

Abbreviations and notes:

BPE = Britton Ponds Enlargement, 42 af

SBC = South Baker Creek Reservoir, 122 af

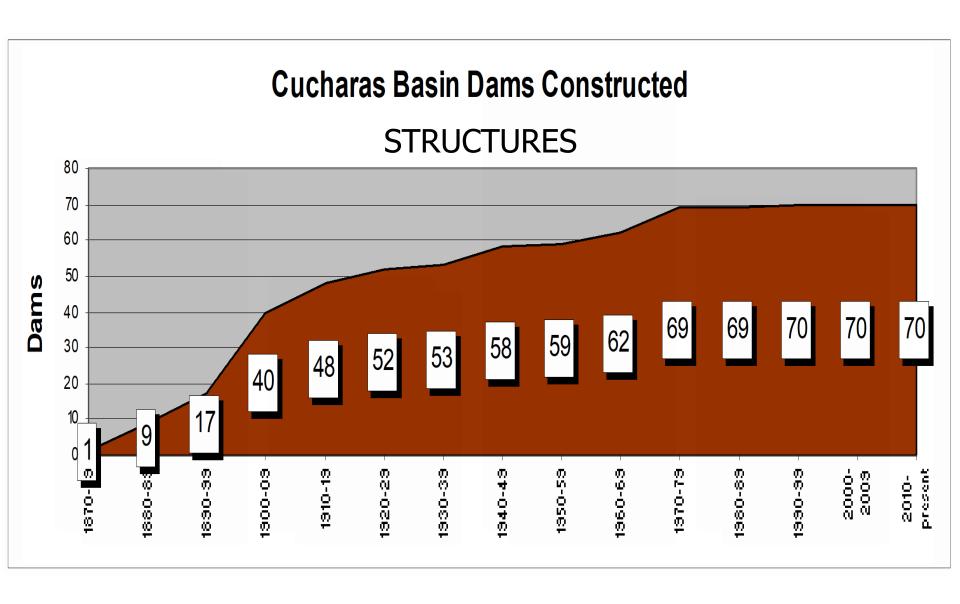
BCR = Bruce Canyon Reservoir, 1406 af

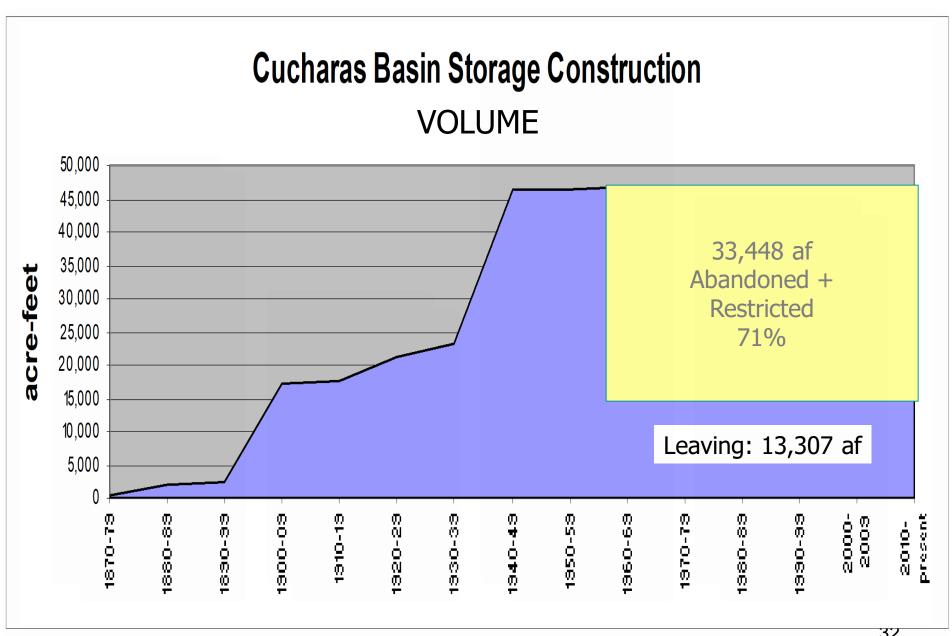
LVLE = La Veta Town Lakes Enlargement, 102 af

MSRE = Maria Stevens Reservoir Rehab/Enlargement, 642 af

SWAG = Scientific Wild-Assed Guess

FY ends on Sept 30 of the same calendar year





ST. CHARLES MESA COTTONWOOD IRRIGATING DITCH # 2 HEADGATE/ AUGMENTATION STATION

GRANT OBJECTIVES

- Maximizing the use of water resources by replacing aging infrastructure
- Improving the overall engineering soundness, stability, and efficiency of the structures
- More efficient and better water delivery for M&I and Augmentation
- The telemetry station will more accurately measure/quantify the diversion, and provide real-time data access and threshold alerts
- Cost savings for SCMWD on yearly repair fees
- UAWCD will also utilize the augmentation station to quantify CID1 water and save costs by not having to build an additional augmentation station
- UAWCD is working in collaboration with SCMWD which will increase the beneficial use of water on Cottonwood Creek through the water districts augmentation plan

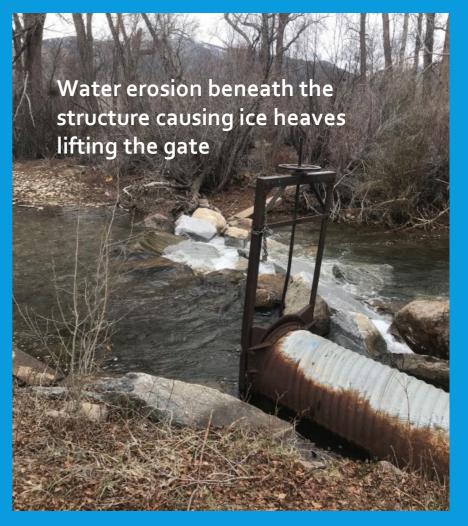
CURRENT ISSUES



Wing wall failing causing a drop in water level at the headgate.

The channel substrate is such that it moves during high flows and pushes the larger riprap down stream or makes it sink changing water levels.





Goal: Looking for a permanent fix, more accurate water measuring, and better utilization of resources.

TASKS1 & 2

Task 1

- Mobilization of equipment and materials.
- Site preparation and debris cleanup

<u>Task 2</u> (Right – South Side of diversion)

- Installation of bulk bags to dewater the area of construction and divert flows to the North side of the creek.
- Install Cast-in-place headwall and new slide gate

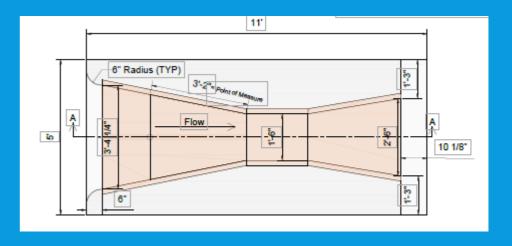




TASK 2 (continued)

Task 2 - Parshall Flume

- Existing flume and measuring equipment to be removed and flume re-installed with a concrete foundation.
- Create more stability and better grading.



TASKS 3 & 4

<u>Task 3</u> (Left- North side of diversion)

- Installation of bulk bags to dewater the construction area
- Installation and grouting of riprap
- Reinforcement for erosion control
- Preservation of floodwall and protection of fishery flow and passage

Task 4

- De-mobilization of equipment and materials.
- Site restoration of disturbed area





TASK 5

<u>Task 5</u> – Telemetry Station

- Installation and verification of all equipment and programing
- Integrating previous equipment into upgraded station
- Database management to ensure proper and timely reporting on the UAWCD website
- Provides alert system for predetermined threshold values

SCMWD CID2 -GRANT FUNDING REQUEST-

Basin Account Request	\$10,040		
Statewide Account Request ⁽¹⁾	\$100,400		
Total WSRF Funds Requested (Basin & Statewide)	\$110,440		
Match Funding (not including Basin Acct)	\$73,560		
Total Project Costs	\$184,000		

Contributing Entity	Amount and Form of Match (Cash or In-Kind)		
Arkansas Basin Roundtable	\$10,000 (Cash)		
Upper Arkansas Water Conservancy District	\$10,000 (In-Kind)		
St Charles Mesa Water District	\$63,560 (Cash)		
Total Match	\$83,560		
	83% of statewide request		



LAVWCD-Soil Health Demonstration Plots

Amber Weber, LAVWCD Soil Health Director

Needs Assessment Meeting 12/11/2109

LAVWCD's Mission

• "To acquire, retain and conserve water resources within the Lower Arkansas River; To encourage the use of such water for the socio-economic benefit of the District citizens. To participate in water-related projects that will embody thoughtful conservation, responsible growth, and beneficial water usage within the Lower Arkansas Valley" and this is done with projects relating to water quantity, quality, conservation easements, and soil health practices to maintain water rights in the area.

Project Overview

- Soil health- vastly misunderstood in both implementation and how soil health practices will impact water use and water quality
- Because of stringent water rights, an arid landscape, late adopters, and insecurities, demonstration plots will be the key to proving the affects of soil health BMPs (Best Management Practices) on not only the soil and its organic matter, but water quality, water holding capacity, and on-field economics.
 - -Demo plots will be placed on water-long, water-short, dryland, and natural grass grazing

- 4 soil health demonstrations with water quality nexus
 - -Producer-led
 - -100 acre plots
 - -Split in half or smaller sections within
 - -Weather station in middle
 - -Multi-variable plots- cover crops, composting, synthetic input reduction, grazing, etc.
 - -Soil and water quality samples
 - -Economic, quantitative, and qualitative analysis
 - -Technically synthesize the water consumption and quality of soil health practices
 - -Display effectiveness via field days/tours
 - -Farmer-led network of resources

BIP and CWP Justification



WATER SUPPLY
MANAGEMENT- WATER
HOLDING CAPACITY
INCREASE



AGRICULTURAL GAP OF 600,000 AC-FT OF WATER PER YEAR- CONSERVATION IS KEY



INCREASED ORGANIC
MATTER AND
MYCORRHIZAL FUNGI WILL
LEAD TO HIGHER WATER
AND NUTRIENT HOLDING
CAPACITY; LEADS TO
BETTER CROP
QUALITY/PRODUCTION,
CONSERVATION OF WATER,
INCREASE WATER QUALITY
WITH NUTRIENT HOLDING
CAPACITY



WATER QUALITY AND SOIL
HEALTH ARE BOTH
MENTIONED IN THE
COLORADO WATER PLAN.
THESE DEMONSTRATION
PLOTS UTILIZE BOTH SETS
OF DATA TO SHOW THE
NEXUS BETWEEN THE
TWO.

Related Studies

• CDPHE

-Currently working to see how cover crops, reduced tillage, and reduced fertilizer input can affect crop production and water quality

• EPA

-Working on both water quality and soil health and educational outreach for each

NRCS

-Working to partner to utilize funding and expertise on LAVWCD's projects

LAVWCD

-Super Ditch is fallowing fields and may reduce wind and soil erosion on fallowed fields



Task 1Development
of Soil Health
Test Plots



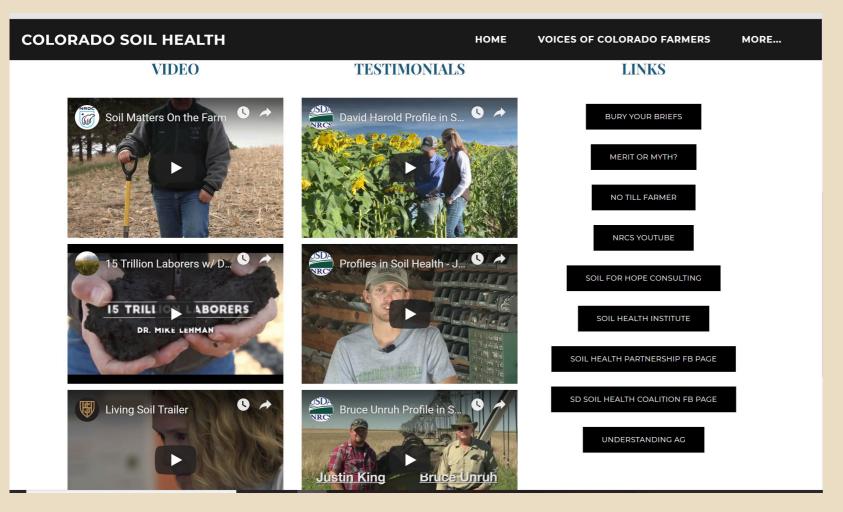
Task 2- Soil and Water Quality Monitoring



Task 3- Economic Analysis



Task 4-Field Days



Task 5-Success Stories



Colorado Water Conservation Board

Water Plan Grant - Exhibit B Budget and Schedule

Prepared Date: December 1 ,2019

Name of Applicant: Lower Arkansas Valley Water Conservancy District

Name of Water Project: Soil Health Demonstration Plots

Project Start Date: November 1, 2020 Project End Date: December 31, 2023

Task No.	Task Description	Task Start Date	Task End Date	Grant Funding Request	Match Funding	Total
1	Development of Soil Health Demo Plots	NTP	12/31/2023	\$79,500.00	\$48,125.00	\$127,625
2	Soil and Water Quality Monitroing	NTP	12/31/2023	\$75,000.00	\$96,875.00	\$171,875
3	Economic Analysis	1/1/2021	12/31/2023	\$20,500.00	\$9,900.00	\$30,400
4	Field Days	1/1/2021	12/31/2023	\$6,500.00	\$10,500.00	\$17,000
5	Success Stories	1/1/2022	12/31/2023	\$8,500.00	\$16,625.00	\$25,125
6	Grant Management	NTP	12/31/2023	\$10,000.00	\$17,975.00	\$27,975
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
Total				\$200,000	\$200,000	\$400,000

Budget



Questions?