

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 Gunnison | North Platte | Colorado | Metro | Rio Grande |

South Platte | Yampa/White Southwest

Ben Wade Craig Godbout Megan Holcomb

<u>ben.wade@state.co.us</u> <u>craig.godbout@state.co.us</u> <u>megan.holcomb@state.co.us</u>

303-866-3441 x3238 303-866-3441 x3210 303-866-3441 x3222

WSRF Submittal Checklist (Required)			
I acknowledge this request was recommended for CWCB approval by the sponsoring roundtable.			
I acknowledge I have read and understand the 2016 WSRF Criteria and Guidelines.			
I acknowledge the Grantee will be able to contract with CWCB using the Standard Contract. (1)			
cation Documents			
Exhibit A: Statement of Work ⁽²⁾ (Word – see Template)			
Exhibit B: Budget & Schedule ⁽²⁾ (Excel Spreadsheet – see Template)			
Letters of Matching and/or Pending 3 rd Party Commitments ⁽²⁾			
Map ⁽²⁾			
Photos/Drawings/Reports (links)			
Letters of Support (Arkansas Basin Roundtable; HCWCD commitment)			
acting Documents ⁽³⁾			
Detailed/Itemized Budget ⁽³⁾ (Excel Spreadsheet – see Template)			
Certificate of Insurance ⁽⁴⁾ (General, Auto, & Workers' Comp.)			
Certificate of Good Standing ⁽⁴⁾			
W-9 Form ⁽⁴⁾			
Independent Contractor Form ⁽⁴⁾ (If applicant is individual, not company/organization)			
Electronic Funds Transfer (ETF) Form ⁽⁴⁾			

- (1) Click "Grant Agreements". For reference only/do not fill out or submit/required for contracting
- (2) Required with application if applicable.
- (3) Additional documentation providing a Detailed/Itemized Budget maybe required for contracting.

Applicants are encouraged to coordinate with the CWCB Project Manager to determine specifics.

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



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

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

Water Activity Summary		
Name of Applicant	Huerfano County Water Conservancy District	
Name of Water Activity	Cucharas Collaborative Storage Phase 3	
Approving Roundtable	e(s)	Basin Account Request(s) ⁽¹⁾
Arkansas		\$4,000.00
Basin Account Request Subtotal		\$4,000.00
Statewide Account Request ⁽¹⁾		\$40,000.00
Total WSRF Funds Requested (Basin & Statewide)		\$44,000.00
Total Project Costs		\$60,045.00

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



	Grantee and Applicant Information
Name of Grantee(s)	Huerfano County Water Conservancy District
Mailing Address	P.O. Box 442, La Veta, CO 81055
FEIN	84-0935026
Grantee's Organization Contact ⁽¹⁾	Scott King
Position/Title	District President
Email	slking@centurylink.net
Phone	719-742-3124; 719-680-0784 [M]
Grant Management Contact ⁽²⁾	Carol Dunn
Position/Title	District Administrator
Email	hcwcdistrict@gmail.com
Phone	719-742-3597 (home office)
Name of Applicant (if different than grantee)	
Mailing Address	
Position/Title	
Email	
Phone	

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

Description of Grantee

Provide a brief description of the grantee's organization (100 words or less).

The Huerfano County Water Conservancy District (HCWCD or District), formed by court decree in 1971 pursuant to the Water Conservancy Act, responds to local and regional needs by protecting and stabilizing the county's water resources, including the Huerfano and Cucharas Rivers, tributary streams and groundwater. Active in several county-wide collaboratives, the District also participates in the Arkansas River Watershed Collaborative (ARWC), and is an active participant in the Arkansas Basin Roundtable (ABRT) itself where, since the District has been de-Bruced, it has acted as applicant or fiscal agent for grants funding ABRT's BIP Coordinator as well as other members' projects.



	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.			
V	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)			
	Study (geotechnical investigation)		
	Implementation		

Category of Water Activity (check all that apply)			
	Nonconsur	mptive (Environmental)	
	Nonconsumptive (Recreational)		
V	Agricultura	l	
√	Municipal/Industrial		
	Needs Assessment		
	Education & Outreach		
√	Other	Explain: Storage	

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/Counties	Huerfano	
Latitude	37.62° N	
Longitude	- 104.78° W	



Water Activity Overview

Please provide a summary of the proposed water activity (200 words or less). Include a description of the activity and what the WSRF funding will be used for specifically (e.g. studies, permitting, construction). Provide a description of the water supply source to be utilized or the water body affected by the activity. Include details such as acres under irrigation, types of crops irrigated, number of residential and commercial taps, length of ditch improvements, length of pipe installed, area of habitat improvements. If this project addresses multiple purposes or spans multiple basins, please explain. The Applicant shall also provide, in Exhibit A, a detailed Statement of Work, Budget, and Schedule.

This is a Phase 3 continuation of the Cucharas Collaborative Storage Study, Project #2015-0007 on the Master Needs List of the Arkansas Basin Implementation Plan. The final report of Phase 1 is available online at https://applegategroup.sharefile.com/d-s61404cc1e41461a8.

In Phase 2, five "preferred joint storage sites" underwent geotechnical investigation, the results of which were published in a December 2018 report by Applegate Group and Cesare. Using that report, the Cucharas Basin Storage Collaborative selected three sites of primary interest – South Baker Creek in the upper basin, Bruce Canyon in mid-basin, and Maria-Stevens Reservoir enlargement in the lower basin.

Of those three sites, South Baker Creek (SBC) and Bruce Canyon, had inaccessibility issues in Phase 2, which interfered with feasibility level designs of the dam abutments. The SBC site also requires engineering design for an alternative dam, most likely concrete gravity (RCC). This project will perform coring and permeability testing of foundation bedrock material at the two sites to evaluate the geologic and geotechnical properties of abutments so 30 percent design recommendations can be made. The December 2018 geotechnical report will be supplemented with the results. In addition, 30 percent design work on the alternative dam will be completed on the SBC site.

Measurable Results				
To catalog measurable res	To catalog measurable results achieved with WSRF funds please provide any of the following values.			
2314	New S	torage Created (acre-feet)		
3103	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:		



Water Activity Justification

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

This project is aligned with Colorado's water values, described at pp 9-43 and 9-44 of the Colorado Water Plan, as follows:

- The project proponent, HCWCD, has a commitment to collaboration. This project is directed by a collaborative of some twenty members, formed in 2015 at the suggestion of the Division 2 Engineer, to meet the storage needs in the Cucharas River Basin and incorporating a variety of needs municipal, agricultural, recreational, drought protection, and wildfire suppression. This broad set of stakeholders has provided input at noticed public meetings to which they were individually invited.
- The project addresses an identified water gap. A statewide shortage of storage is called out as a primary gap by the Colorado Water Plan § 1.6 and the Arkansas BIP in which increased storage is listed as a "goal," § 1.6.1, p. 10, a "critical element," § 6.2, p. 251, a "priority," p. 5, and a "theme," § 1.2.1, p. 6. Indeed this storage project is listed on the BIP's Master Need List (IPP) as Project #2015-0007.
- The project proponent demonstrates sustainability. Huerfano County, through which the Cucharas River arises and flows enroute to the Arkansas, is one of the poorest and driest counties in the state. For example, over 23% of the population (v. 11.5% statewide) lives below the federal poverty level, and over 30% of families are on food stamps. This project to restore storage to the basin will contribute to improved prosperity in a depressed rural area. In addition, the collaborative which co-sponsors this project has representation from all appropriate local governments.
- The project is fiscally and technically feasible. As demonstrated by the related storage study and the geotechnical study, described in the "related studies" section below, this phase of the project (geotechnical data collection) is necessary and feasible.

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



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.

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

Matching Requirements: Statewide Account Requests

Statewide Account grant requests require a 50% match as described in the 2016 WSRF Criteria and Guidelines. A minimum of 10% match shall be from Basin Account funds (cash only). A minimum of 10% match shall be provided by the applicant or 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):
Huerfano County Water Conservancy District (Applicant)	\$ 5,045
Cucharas Sanitation & Water District	3,000
Town of La Veta	5,000
Huerfano County	3,000
Roundtable Basin Account	4,000
Total Match	\$20,045
If you requested a Waiver to the Statewide Account matching, indicate % you wish waived. (Max 50% reduction of requirement).	

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.



Related Studies

Related studies include:

- <u>Cuchara Basin Collaborative Storage Study, Task 1, Storage Needs Assessment,</u> prepared for Huerfano County Water Conservancy District (Cucharas River Storage Collaborative) by ParsonsWater and Applegate Group, Inc., July 2016, 28 pp.
- Cuchara Basin Collaborative Storage Study, Task 2 Screening and Cost-Benefit Analysis, prepared for Huerfano County Water Conservancy District (Cucharas River Storage Collaborative) by ParsonsWater and Applegate Group, Inc., June 2017, 255 pp.
- Cucharas Collaborative Storage Study Geotechnical Investigation completed in December 2018 – see the following link for the executive summary. https://applegategroup.sharefile.com/d-sc6fc1751c594aaf9

The overall water project is complementary to the CWCB's Decision Support System:

- Completed "a water budget for the Cucharas River, including an inventory of all municipal, irrigation, industrial, recreational and environmental demands and consumptive uses by means of StateWB (available from CWCB) or a compatible model approved by CWCB, using inflow, outflow, and change-in-storage information to generate an overall water budget or water balance summary, current and future (2050), for the Cucharas basin"; and
- Conducted "water resources planning modeling using StateMod covering the Cucharas mainstem and those tributaries from which the Collaborators' storage facilities derive their supplies."

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

CWCB WSRF grants were awarded for two previous phases of this project:

- 1) Applicant: Huerfano County Water Conservancy District
- 2) Activity Name: Cucharas Basin Collaborative Storage Study
- 3) Approving RT: Arkansas
- 4) CWCB board meeting date: September, 2015
- 5) Contract number CTGG1 2016-1053; PO date: 12/7/2015
- 1) Applicant: Huerfano County Water Conservancy District
- 2) Activity Name: Cucharas Basin Collaborative Storage Geotechnical Investigation
- 3) Approving RT: Arkansas
- 4) CWCB board meeting date: March, 2018
- 5) Contract number POGG1 2018-917; PO date: 5/8/2018

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

Water Supply Reserve Account – Grant and Loan Program Water Activity Summary Sheet March 21, 2019 Agenda Item 24(u)

Applicant & Program Sponsor: Huerfano County Water Conservancy District

Water Activity Name: Cucharas Collaborative Storage Phase 3

Water Activity Purpose: Study – Nonconsumptive, Agricultural, M/I

County: Huerfano

Water Source: South Baker Creek

Amount Requested/Source of Funds: \$4,000 Arkansas River Basin Account

\$40,000 Statewide Account

\$44,000 Total Request

Matching Funds: Basin Account Match (\$4,000) = 10% of Statewide

Arkansas

Account request (Meets 10% min);

Applicant's Cash Match (\$16,045) = 40% of Statewide

Account request (Meets 25% min.);

<u>Total Match</u> (Basin & Applicant Match of \$20,045 = 50.1% of Statewide Account request (meets 50% min). (refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:

Drainage Basin:

Staff recommends approval of up to \$4,000 from the Arkansas Basin Account and \$40,000 from the Statewide account to help fund the project/study titled: Cucharas Collaborative Storage Phase 3

Water Activity Summary: This proposed project is Phase 3 of the Cucharas Collaborative Storage Study, which is listed as Project #2015-0007 on the Master Needs List of the Arkansas Basin Implementation Plan.

In Phase 2, five "preferred joint storage sites" underwent geotechnical investigation. Using that report, the Cucharas Basin Storage Collaborative group selected three sites of primary interest – South Baker Creek in the upper basin, Bruce Canyon in mid-basin, and Maria-Stevens Reservoir enlargement in the lower basin.

Of those three sites, South Baker Creek (SBC) and Bruce Canyon, had inaccessibility issues in Phase 2, which interfered with feasibility level designs of the dam abutments. The SBC site also requires engineering design for an alternative dam, most likely concrete gravity. This project will perform coring and permeability testing of foundation bedrock material at the two sites to evaluate the geologic and geotechnical properties of abutments so 30 percent design recommendations can be made. The Phase 2 geotechnical report will be supplemented with the Phase 3 results. In addition, 30 percent design work on the alternative dam will be completed on the SBC site.

Discussion: This project is consistent with the measurable objectives set forth in the Colorado Water Plan and the Arkansas Basin Implementation Plan. The Cucharas Collaborative Storage Study supports the needs of the Basin Plan through the investigation of potential new storage, meeting the supply-demand gap, and developing multi-purposed projects.

The proposed supports Objective A – Supply-Demand Gap in the Water Plan by "Using a grassroots approached to formulate projects and methods that avoid some of the undesirable outcomes of the supply-demand gaps"; supports Objective E – Storage by "Assess and promote opportunities for multipurpose and multi-partner storage projects that address strategic needs."

Issues/Additional Needs: None.

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

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

Funding Summary/	<u>Cash</u>	<u>In-kind</u>	Total
Huerfano County Water Conservancy District	\$5,045	\$0	\$5,045
Cucharas Water & Sanitation District	\$3,000	\$0	\$3,000
Town of La Veta	\$5,000	\$0	\$5,000
Huerfano County	\$3,000	\$0	\$3,000
WSRF Arkansas Basin_Account	\$4,000	n/a	\$4,000
WSRF Statewide Account	\$40,000	n/a	\$40,000
Total Project Costs	\$60,045	\$0	\$60,045

CWCB Project Manager: Ben Wade

ARKANSAS BASIN ROUNDTABLE

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

January 22, 2019

Re: Arkansas Basin Roundtable Letter of Support- WSRA: Cucharas Collaborative Storage Study – Geotechnical Investigation

Dear Mr. Ben Wade:

At its January 9, 2019 meeting, the Arkansas Basin Roundtable approved the above referenced project for \$4,000 in Basin funds and consideration of \$40,000 in State funds through the Water Supply Reserve Account. There were no dissenting opinions expressed in the consensus decision.

The Arkansas Basin Roundtable supports the efforts of the Cucharas Basin Storage Collaborative to complete the geotechnical work on the Bruce Canyon and South Baker Creek sites. The Cucharas Collaborative Storage Study supports the needs of the BIP through the investigation of potential new storage, meeting the supply-demand gap, and developing multipurposed projects. Regarding the Colorado Water Plan, this project supports the following objectives:

Objective A- Supply-Demand Gap: Use a grassroots approach to formulate projects and methods that avoid some of the undesirable outcomes of the supply-demand gaps.

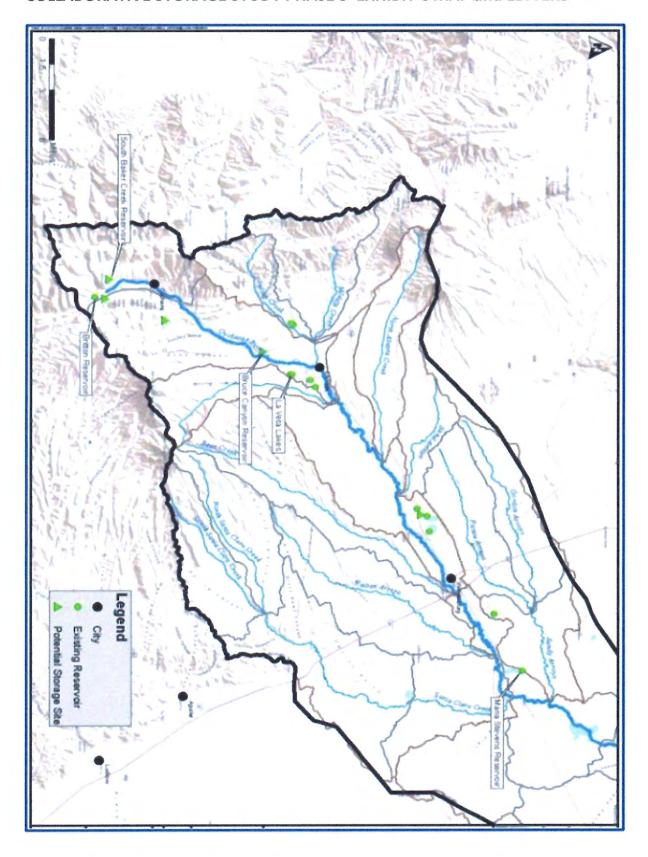
Objective E- Storage- Assess and promote opportunities for multipurpose and multi-partner storage projects that address strategic needs.

Should you have any questions or concerns, please feel free to contact me at mshea@csu.org or 719-668-8028.

With warm regards,

Mark Shea ABRT Chair

COLLABORATIVE STORAGE STUDY PHASE 3 EXHIBIT C MAP and LETTERS



Applegate Group, Inc.

Water Resource Advisors for the West

1490 West 121st Ave,, Ste 100 Phone: (303) 452-6611 Denver, CO 80234-2728 Fax: (303) 452-2759 www.ApplegateGroup.com e-mail: info@applegategroup.com

Cucharas Storage Study

Bruce Canyon Reservoir Drainage Area

Date: 14 April 2017

Job #: 16-106

Drawn By: KAB

Figure:

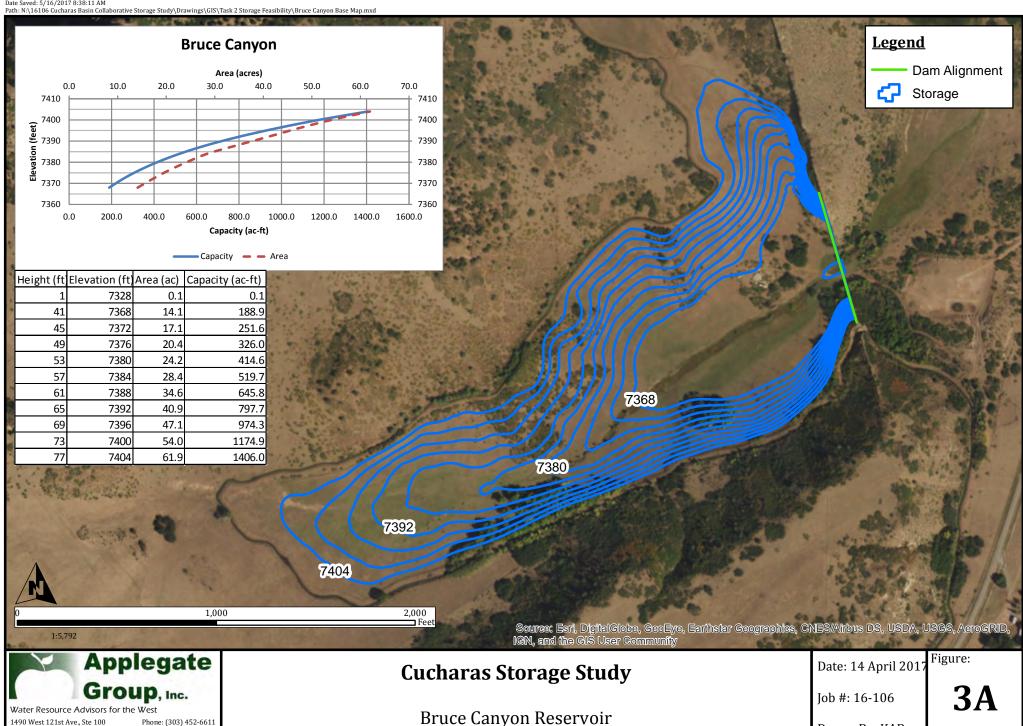
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Drawn By: KAB









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South Baker Creek Drainage Area

Job #: 16-106

Drawn By: KAB

1B

1490 West 121st Ave., Ste 100

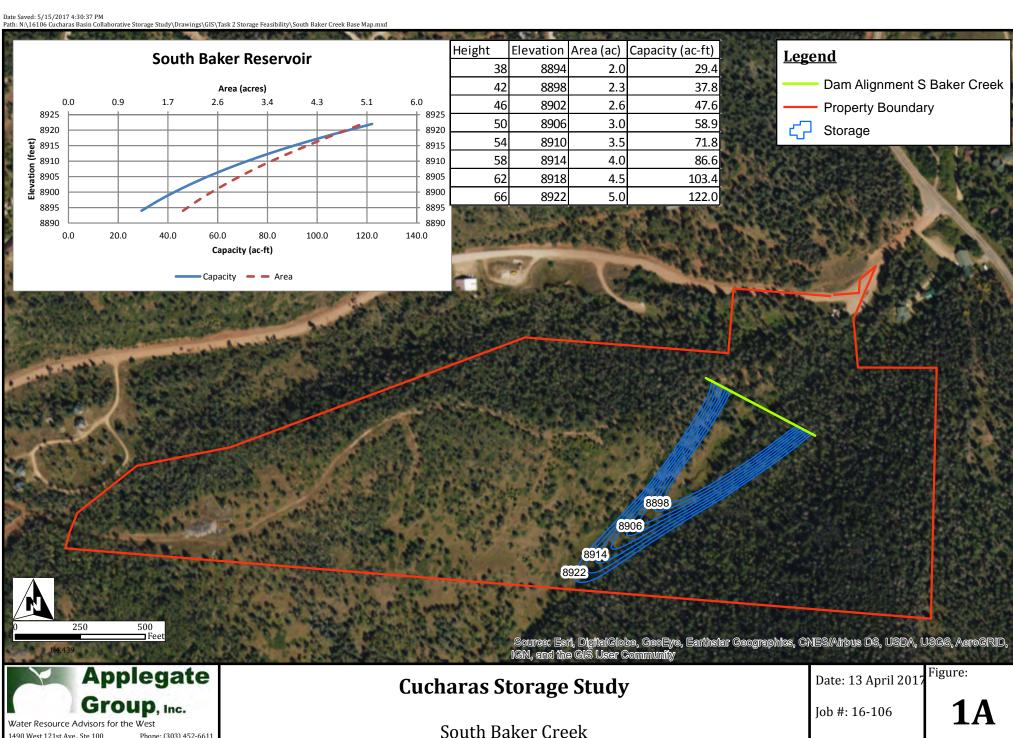
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Drawn By: KAB



