

The Southwestern Water Conservation District
The West Building, 841 E Second Avenue
Durango, CO 81301

NOTICE IS HEREBY GIVEN
A Regular Board Meeting of the
Southwestern Water Conservation District
will be held via teleconference on

Wednesday, February 10, 2021

8:00 a.m. – 12:00 p.m.

1:00 - 3:30 p.m.

Thursday, February 11, 2021

8:00 a.m. – 12:45 p.m.

[Click here to join Zoom](#)

Phone Number: (346) 248 7799

Meeting ID: 852 4669 2513

Passcode: 931249

Posted and Noticed February 5, 2021

Tentative Agenda

Please text 970-901-1388 if you have difficulty joining the meeting.

*Please raise your hand to be recognized by the chair. To raise your hand by phone, dial *9. To raise your hand by computer, please use Alt+Y (Windows) or Option+Y (Mac). To mute and unmute by phone, dial *6.*

Wednesday, February 10, 2021

- 1.0 Call to Order – Roll Call, Verification of Quorum (8:00 a.m.)**
- 2.0 Review and Approve Agenda (8:02 a.m.)**
- 3.0 SWCD Board of Director Appointments for La Plata, Hinsdale and San Juan Counties (8:03 a.m.)**
- 4.0 Annual Election of Officers (8:05 a.m.)**
- 5.0 Board Committee Membership for 2021 (8:25 a.m.)**
- 6.0 SWCD Resolution 21-01 Honoring Bob Wolff (8:40 a.m.)**
- 7.0 Executive Session (8:45 a.m.)**
 - 7.1 San Miguel River Basin Water Supply Planning
 - 7.2 Application of Salem Minerals, Inc. et al. for Finding of Reasonable Diligence, Case No. 20CW3036, Water Division 7.
 - 7.3 Application of Navajo Development Co., Inc. for Appropriative Right of Exchange, Case No. 20CW3016, Water Division 3.
 - 7.4 Colorado River Compact, Interstate and Intra-state negotiation matters, including drought contingency planning and exploration of demand management
 - 7.5 Joint SWCD/River District Agreement with Hydros Consulting for Colorado River Basin Modeling

8.0 Summary and Action Items from Executive Session (11:55 a.m.)

Recess for Lunch (12:00 p.m.)

9.0 SWCD Grant Program (1:00 p.m.)

9.1 2020 Grant Program Summary Report (1:00 p.m.)

9.2 Review of SWCD Grant Program Criteria (1:05 p.m.)

9.3 2021 SWCD Grant Applications Presentations (1:10 – 2:50 p.m.)

Aspen Springs Metro District – Buttercup Water Depot Well Drilling
Florida Consolidated Ditch Company – Florida Canal Diversion Rehab Phase II
Montezuma County – Phreatophyte Removal Project
Town of Ophir – Werner Springs Infiltration System Replacement
Town of Silverton – Kendall Mtn Well Field Test Drilling Program
Twin Buttes Metro District #1 – Lightner Creek Fisheries Enhancement
Fort Lewis College – Dolores River Adaptive Management, Online Repository
San Juan RC&D (Bonita Peak CAG) – Animas River Data Collection and Standard
Proposal Development
Trout Unlimited – Upper San Juan Integrated Water Management Plan, Phase II
Montezuma School to Farm Project – Colorado Water Plan Education Initiative
Materials

9.4 2021 SWCD Grant Applications Decisions (2:50 p.m.)

9.5 Board Feedback on Grant Program (Process, Criteria) and Wrap Up (3:15 p.m.)

Recess at 3:15 p.m. until Thursday, February 11th at 8:00 a.m.

Thursday, February 11, 2021

10.0 Call to Order – Roll Call, Verification of Quorum (8:00 a.m.)

11.0 Review and Approve Agenda (8:03 a.m.)

12.0 Executive Session (8:05 a.m.)

- 12.1 General Manager Hiring Process— Update on General Manager hiring process and continued Deliberations regarding the same
- 12.2 Potential consulting services agreement for additional technical services

13.0 Summary and Action Items from Executive Session (10:00 a.m.)

14.0 Approve and/or Remove Consent Agenda Items (10:03 a.m.)

15.0 Consent Agenda (10:05 a.m.)

- 15.1 Approval of Minutes (Dec 8-9; Dec 14; Dec 18; Dec 22; Jan 4; Jan 19)
- 15.2 Acceptance of Treasurer's Report (Year-End 2020)
- 15.3 Resolution 2021-02 Designation of Meeting Posting Location

16.0 Questions and Comments from Audience (10:07 a.m.)

17.0 Reports (10:10 a.m.)

- 17.1 Director Reports
- 17.2 Board Committee Reports (Unofficial Notes, Board Finance Committee Meeting, Jan 8)
- 17.3 Staff Report
 - 17.3.1 Hydrologic Conditions Update
 - 17.3.2 Proposed SWCD Account Signatories (Bank of Colorado and COLOTRUST)
 - 17.3.3 Proposed Consolidation of SWCD's COLOTRUST Accounts
 - 17.3.4 Proposed Virtual 2021 SWCD Annual Water Seminar

18.0 Old Business (10:40 a.m.)

- 18.1 Colorado River matters
 - 18.1.1 Interstate and intra-state matters, including drought contingency planning effort and exploration of demand management
 - 18.1.2 Colorado River Water Bank Working Group
- 18.2 SWCD Strategic Planning Update
- 18.3 State Legislative Update
- 18.4 Federal Legislative Update
- 18.5 CWCBC Instream Flow Recommendations
 - 18.5.1 Division 7: Rincon La Vaca (2021)
 - 18.5.2 Division 4: Goat Creek (2022)
- 18.6 Anti-Speculation Committee Update
- 18.7 Southwest Basins Implementation Plan Update
- 18.8 Proposed Assignment of a Portion of the FY2020 Year-End Fund Balance

19.0 New Business (12:15 p.m.)

- 19.1 SWCD Interim Appointment to Southwest Basins Roundtable
- 19.2 Proposed Alternative to 2021 Annual Children's Water Festival – Elaine Chick
- 19.3 Update regarding Statewide Education Action Plan (SWEAP) - Scott Williamson

20.0 Engineering Report (12:35 p.m.)

- 20.1 Upper Colorado & San Juan River Basin Recovery Implementation Programs
 - 20.1.1 Potential Transfer of SWCD's Fiscal and Contracting Responsibilities for Water Development Committee
- 20.2 Paradox Salinity Unit Final Environmental Impact Statement

21.0 General Counsel Legal Report (12:40 p.m.)

- 21.1 December Water Court Resume Review (Divisions 3, 4, 7)
- 21.2 Water Quality Control Commission's Regulation No. 93 Rulemaking Hearing

22.0 Executive Session (if needed)

23.0 Adjournment (12:45 p.m.)

Upcoming Meetings

February 24, 2021	Special Board Meeting
March 10, 2021	Special Board Meeting
March 24, 2021	Special Board Meeting
April 1-2, 2021	Regular Board Meeting

Except the time indicated for when the meeting is scheduled to begin, the times noted for each agenda item are estimates and subject to change. The Board may address and act on agenda items in any order to accommodate the needs of the Board and the audience. Agenda items can also be added during the meeting at the consensus of the Board.

Agenda items may be placed on the Consent Agenda when the recommended action is non-controversial. The Consent Agenda may be voted on without reading or discussing individual items. Any Board member may request clarification about items on the Consent Agenda. The Board may remove items from the Consent Agenda at their discretion for further discussion.

**Southwestern Water Conservation District
BOARD COMMITTEE STRUCTURE**

February 2021

Committee Membership:

Created in October 2019, SWCD's board committees have traditionally had three or four board members. The board president has chaired all committees except Finance, which is chaired by the Secretary-Treasurer. Please see below the 2020 board committee structure and membership.

2020 Board Committees

Finance	Personnel	Strategic Plan	Litigation	Outreach
Chair: Russell	Chair: Wolff	Chair: Wolff	Chair: Wolff	Chair: Wolff
Wolff	Ford	Smith	Russell	Hinger
Ford	Guilliams	Russell	Smith	Schwindt
Guilliams	Russell	Schwindt		

REQUESTED ACTION: After the officer election at Wednesday's meeting, please email, text, or call Laura with your preference(s) for committee service (970-901-1388). **Please do so during or after Wednesday's meeting and before Thursday's meeting.** On Thursday, the board will finalize committee membership.

2021 Board Committees *Please let Laura know your desired committee assignment*

Finance	Personnel	Litigation	Outreach
Chair: Secretary-Treasurer	Chair: President	Chair: President	Chair: President
President	2.	2.	2.
3.	3.	3.	3.
4.	4.	4.	4.

Committee descriptions:

The following are general descriptions of the scope of each board committee. These committees may propose policies or positions for board consideration and approval.

Finance: This committee will consider finance-related topics, including long- and short-term District financial goals, investment priorities and vehicles, audit, and budget, among others. This committee will also draft a travel reimbursement policy for staff and the board.

Personnel: This committee will consider items related to District personnel policies and issues.

Litigation: This committee will consider items related to the District's litigation priorities.

Outreach: This committee will consider items related to the District's strategies and tools for public education and engagement.

Staff, consultant, and counsel support:

The general manager, once hired, will provide staff support for all committees, including management and policy recommendations. Laura Spann will provide staff support for all committees, including meeting notices, recordings, and notes. The board's consultants will participate upon request of the committee chair or members.



**RESOLUTION 2021-01
SOUTHWESTERN WATER CONSERVATION DISTRICT
IN APPRECIATION OF BOB WOLFF**

WHEREAS, the Southwestern Water Conservation District (District) was established pursuant to C.R.S. 37-47-101 to protect, conserve and develop the water resources of the Dolores and San Juan River Basins across nine counties; and

WHEREAS, as a 45-year resident of Durango, Bob Wolff represented La Plata County on the District board for nearly 11 years, three of those years as president; during his tenure on the board, Bob was instrumental in many major efforts, including settlement of the ALP Water Rights in Case No. 13CW3011 and consistent advocacy for the protection of West Slope water rights, to name a few; and

WHEREAS, Bob's commitment to his community also extended statewide and across the larger Colorado River Basin through service on the boards of the Colorado Water Resources & Power Development Authority and the Colorado River Water Users Association; and

WHEREAS, Bob has participated in local water management in various capacities, including as board president and long-time director for the Animas-La Plata Water Conservancy District and as appointee to the Durango Water Commission; in these roles, Bob supported the construction of Ridges Basin Reservoir (a.k.a. Lake Nighthorse), rural domestic water delivery from Lake Nighthorse to western La Plata County, a public process for Lake Nighthorse's recreation plan, and increased water security for the City of Durango; and

WHEREAS, on behalf of southwestern Colorado, Bob has represented the District on the Southwest Basins Roundtable, engaged in updating southwest Colorado's Basin Implementation Plan, and engaged in the Water Information Program's Steering Committee; and

WHEREAS, Bob's commitment was clear in his responsive engagement with District staff and consultants, answering every call, email, and text; his attention to detail has created a positive and lasting contribution to District operations.

NOW THEREFORE BE IT RESOLVED that the Board of Directors of the Southwestern Water Conservation District expresses its deepest gratitude and appreciation for Bob Wolff's legacy of protecting southwestern Colorado water user needs with passionate dedication to our communities.

DATED THIS 10TH DAY OF FEBRUARY 2021

By

TBD, President

Attest

TBD, Vice-President

MEMO

Southwestern Water Conservation District

From: Laura Spann
To: SWCD Board of Directors
Date: February 3, 2021
Subject: Delay in delivering 2020 Grant Program Summary Report

We are awaiting three final reports from 2020 SWCD grant recipients: Forest to Faucets Teacher Training, Mancos Conservation District, and Snyder Ditch Company. Rather than send an incomplete summary of the 2020 grant program, the board will be provided the final report via email as soon as these required documents are submitted and there's time for me to review them.

In the absence of a final report, I thought the board might like to know the overall 2020 picture as it's relevant for the February grant application review. **Of the \$341,198 in grant funds approved for 2020, I expect the final 2020 grant disbursement to be \$247,016.**

Here's some background on that number if you'd like it: \$219,954 has been disbursed to date. Almost \$20,000 of the Red Rock Range HOA grant was not used and Redmesa Reservoir and Ditch Company's \$75,000 grant was approved for an extension through 2021 and therefore not used in 2020. Southwest Conservation Corps has not yet invoiced for their \$25,000 grant and Fort Lewis College will be invoicing for the small remainder of their grant shortly.



THE SOUTHWESTERN WATER CONSERVATION DISTRICT
Developing and Conserving the Waters of the
SAN JUAN AND DOLORES RIVERS AND THEIR TRIBUTARIES
IN SOUTHWESTERN COLORADO

2021 GRANT PROGRAM GUIDELINES

A. BACKGROUND

The Southwestern Water Conservation District (“SWCD” or the “District”) is a political subdivision of the State that was established by the Colorado General Assembly in 1941 to protect, conserve, use and develop the water resources of the San Juan and Dolores River Basins as well as to safeguard all waters to which the state of Colorado is equitably entitled.¹ SWCD periodically offers financial assistance in the form of grants to “qualified entities,” as that term is defined below in Section C.1, that are carrying out projects consistent with the District’s statutory purposes. Funding for this program is subject to SWCD’s discretion as well as its annual budget and appropriation process. The Board retains the right, in its sole discretion, to approve, reduce, or deny any grant request.

B. GENERAL PROGRAM INFORMATION

For the 2021 grant program, applications may be submitted from November 2nd through December 11th of 2020. Applicants are encouraged to submit their application as early as possible within the given time frame so that there is adequate time to work with SWCD staff to ensure that the application meets all requirements in advance of the December 11th deadline. Applications received after December 11, 2020 will not be considered. Final decisions will be provided to grant applicants no later than March 15, 2021.

The deadlines provided above apply to routine grant requests and may be modified to address emergency situations. SWCD understands that emergency situations may arise from catastrophic or unforeseen events, such as flooding, at other times of the year. Examples of emergency situations may include, but are not limited to: flood event causing damage to diversions or measurement structures, catastrophic canal or pipeline failure leading to no ability to deliver water, spillway or dam failure, regulatory restrictions, and toxic spills. Please contact SWCD staff directly if this occurs to discuss the possibility of submitting an emergency grant application.

¹ See C.R.S. § 37-47-101 through -151.

SWCD anticipates receiving grant requests well in excess of the available funds. The maximum amount of money potentially available from SWCD in the 2021 calendar year for all grant recipients is shown on the table below.

Grant Funding Category	<u>2021</u> Funds Available (Total Grant Program \$230,000)
Educational purposes, including teaching seminars, workshops and related programs	\$11,500
Development or improvement of water supply and watershed restoration projects, including related design, engineering and construction	\$92,000
Participation in public forums, including work groups, performance of studies, stream management planning	\$34,500
Emergency requests	\$92,000

The maximum amounts for each category will be adjusted on an annual basis after development of the initial budget for the upcoming fiscal year. Prior to submitting an application, please [visit the District's website](#).

Any member of the District Board of Directors or District Staff with a financial or property interest in a grant request will disclose any such interest or other conflict of interest and recuse themselves from participating in any recommendation, vote or decision making process related to that grant request.

C. ADDITIONAL REQUIREMENTS

1. ELIGIBILITY

SWCD will consider financial assistance requests from “qualified entities” for grants for: (1) development or improvement of water-related projects, (2) studies and facilitating stakeholder involvement on water-related matters, including water quality, and (3) water-related educational programs. “Qualified entities” include any public entity, non-profit corporation, not-for-profit corporation, carrier ditch company, mutual ditch or reservoir company, unincorporated ditch or reservoir company, or cooperative association within the boundaries of the District. All projects, studies, and program grants will be limited to “raw” or untreated water supplies, except as provided below.

SWCD will not consider grant requests or funding for:

- a. Projects that have already been completed;
- b. Any part of a municipal or domestic drinking water project located beyond the decreed point of diversion (i.e. headgate or well) ;²
- c. Wastewater treatment projects;
- d. Legal fees or payroll costs. If your project includes these costs, please identify them as a separate line-item in the proposed budget and explain how you will pay for those costs without using SWCD grant funds;
- e. Grant administration costs;
- f. Weed management projects, although consideration will be given to programs that specifically remove phreatophytes if the applicant can demonstrate it has a plan to pay for and perform any necessary ongoing maintenance.

To ensure consideration for funding by the District, please apply for a grant before the water project, study or educational program has been initiated.

2. MATCHING CONTRIBUTIONS

SWCD will not award a grant for more than 50% of the total project costs,³ and Applicants must demonstrate that they are actively contributing to the project for which they are requesting a grant. Any grant approval will be contingent on the recipient ultimately demonstrating that they have secured funding of the remaining 50% of the total project costs.

In addition, Applicants or beneficiaries of the proposed project must also demonstrate that they will provide, through a cash contribution and/or the performance of in-kind services, at least 25% of the total project costs (in other words, half of the matching funds). The board has the discretion to consider previous expenditures directly related to the proposed project as matching contributions if those expenditures occurred within six months of the grant application deadline. Non-profit, or non-governmental organizations, serving on behalf of a broad group of local constituents that do not receive tax revenues and do not have opportunities for third party contributions for the project, may request a reduction of the match requirement to 10% of the total project cost (subject to approval by the board) by garnering and documenting strong community or watershed support for the project.

² Funding requests for treated water projects can be pursued with the Colorado Water Resources and Power Development Authority (<https://www.cwrpd.com>) or the Colorado Department of Local Affairs (<https://www.colorado.gov/dola>).

³ For multi-phase projects, “total project costs” shall mean all costs related to the particular phase of the project for which the Applicant is requesting funding.

3. LIMITS ON GRANT FUNDING

The amount of funding each “qualified entity” may receive from the District is further limited to the following:

- a. Recipients of grants for educational purposes may not apply for, or receive, more than \$5,000 in a single year or a total of \$10,000 in any given five (5) year period.
- b. Recipients of grants for development or improvement of water-related projects may not apply for, or receive, more than \$75,000 in a single year or a total of \$150,000 in any given five (5) year period.
- c. Recipients of grants for participation in public forums and the performance of studies may not apply for, or receive, more than \$20,000 in any single year or a total of \$40,000 in any given five (5) year period.

Additional funds, outside of SWCD’s grant program, may be available through SWCD’s loan program. Please review Section I below or contact SWCD staff in order to find out more about SWCD’s loan program.

4. APPLICATION INSTRUCTIONS AND PROCESS

Completion of the application form is required in order for the District to consider requests for financial assistance. Please use the following application:

[General Application for Financial Assistance 2021](#)

Each Application should be typed or printed legibly and include, at a minimum, the following:

- a. Project type, description and location
- b. Total grant amount requested
- c. Total project cost⁴
- d. Anticipated timeline for the project, study or educational request
- e. Matching contributions provided by or requested from other funding partners, including the anticipated decision date for those funding requests if not already approved

⁴ If the requested grant will be used to fund part of a multi-phase project, please provide a summary, including a total project cost estimate and anticipated timeline, for completion of the overall project.

- f. Detailed project expense budget, including as a percentage of the total any costs of administering the grant
- g. Applicant's matching contributions
- h. Identification of project partners and beneficiaries; and
- i. Summary of Applicant's previous funding requests and grant awards from SWCD

Please attach additional sheets as necessary to fully answer any question in order to assure that all information that might be helpful in evaluating your application is considered. Please return the **signed copy** of the application to Southwestern Water Conservation District and retain a copy for your records. Please submit to the following address or email: Southwestern Water Conservation District, 841 E. 2nd Avenue, Durango, CO 81301 *or* lauras@swgcd.org. Once your grant application is received, it will be reviewed by District staff to ensure that it meets the minimum requirements before consideration by the Board.

The board will hold a work session in February 2021 to review and consider the applications. Applicants are encouraged to attend the work session at which the funding requests will be considered, either in person or by phone, so that they can answer questions that may arise and participate in the discussion. The board requests a thorough, completed application form be submitted in lieu of a formal presentation.

For questions about the application or board meeting, please contact District staff by phone (970-247-1302) or e-mail (lauras@swgcd.org). For your reference, agendas are posted to the swgcd.org website one week prior to regular board meetings.

D. EVALUATION CRITERIA

Grant proposals will be evaluated based upon how well the proposed project, study or educational request carries out the purposes of the District. The Board will give special consideration to grant proposals that further the use of pre-compact water rights and the development of Colorado River Compact entitlements as well as educational-related requests that complement or otherwise further the District's existing programs.

E. FUNDS DISBURSEMENT

Once a grant application has been reviewed and approved by the board, a request for the release of grant funds may be made during the calendar year identified in the application as the year when the funds will be used. If your entity will not be able to use the funds in that year, please contact the SWCD office as soon as possible. For grant funds to be released, the applicant must complete a "Request for Release of Funds" form found on the website and provide written documentation that all committed matching funds have been secured. The signature of the applicant's authorized representative on this form indicates that the funds are needed at that particular time and that the applicant ensures and verifies that the funds are only being used for the specific purpose(s) and amount(s) indicated in the application. Additional documentation may be requested at the District's discretion.

In the event the project, study or program ultimately comes in under budget, the prorated contribution of funds must be returned to the District within 45 days of completion. For example, if the completed project, study, or program is \$20,000 under budget, and SWCD contributed 20% of the total project costs, then the grant recipient shall be required to return \$4,000 (20% of \$20,000) to SWCD.

F. CHANGING THE USE OF FUNDS

If the Board approves funding for the application, and at a future date the intended use of funds changes, please notify staff as soon as possible. Board review and approval of the change will be necessary. Otherwise, the District may request reimbursement of funds.

G. GRANT EXTENSION REQUESTS

If the Board approves funding for the application, and progress toward completion of the project has not occurred within a year of the time frame listed in the application, it may be necessary to request from the Board a grant extension. Applicants requesting an extension will not be given preferential treatment over other applicants and will be handled on a case by case basis. Grant extensions are usually limited to one year, and any additional extensions may require submittal of a new application.

H. ANNUAL REPORTING REQUIREMENT

If the Board approves funding for the application, the authorized entity will provide a written report and/or supporting documentation of the work accomplished by this application no later than December 31st of the year in which the grant is awarded. This written report will include a detailed accounting of the use of funds. Additional documentation may be requested at the discretion of the District. See sample final reports at wwwcd.org.

I. LOANS

Loans and/or loan-grant packages may be approved for water-related projects or construction, studies, educational programs, and sponsorships. The terms and security for payment will be determined at the time the loan is approved. All documents required by the District for the loan shall be executed before the District will release the approved loan amount. Documents that the District, at its discretion, may require include, but may not be limited to, a loan agreement, promissory note, deed of trust for real property, and/or a uniform commercial code financing statement for personal property.



Southwestern Water Conservation District FINANCIAL ASSISTANCE PROGRAM Frequently Asked Questions

1. How much money can we ask for?

It depends on the type of project, how much funding your entity has received in recent years, and the total project cost:

There is a project cost limitation: SWCD will not award more than 50% of the total project cost.

There is a category limitation annually and over a five-year period:

- Recipients of grants for educational purposes may not apply for, or receive, more than \$5,000 in a single year or a total of \$10,000 in any given five (5) year period.
- Recipients of grants for development or improvement of water-related projects may not apply for, or receive, more than \$75,000 in a single year or a total of \$150,000 in any given five (5) year period.
- Recipients of grants for participation in public forums and the performance of studies may not apply for, or receive, more than \$20,000 in any single year or a total of \$40,000 in any given five (5) year period.

For example, if the total development project is estimated at \$120,000, you (the applicant) can request \$60,000 or less for one year.

2. Will SWCD fund a multi-year project?

As a public entity, SWCD only appropriates funding annually, and in general cannot commit to multiple year projects. 2021 grants are intended to be used in 2021. However, understanding that water projects often take time, you can split a multi-year project into phases. Separate applications can be filed for each phase or year of the project, and will be considered by the board during each annual grant process. Please demonstrate what objectives will be completed in the first phase and show your plan for future years. *(It is important to note that approval of funding for an initial phase will not mean any preference will be given to future phases or applications.)*

3. What match is required?

Applicants must **also** demonstrate that they will provide, through a cash contribution and/or the performance of in-kind services, at least 25% of the total project costs.

For example, if the total development project is \$120,000, you (the applicant) must provide a minimum of \$30,000 in cash and/or in-kind towards this specific project. If it is a ditch repair and some labor will be done by the shareholders, calculate the value of their contribution in labor. Let's say that labor is valued at \$20,000, then \$10,000 in cash would be needed as a cash reserve contribution, from a special assessment, or as a loan taken on by the ditch company to complete the work.

If a project has several beneficiaries or sponsors (let's say a public process), the match can be demonstrated by contributions from all the project participants or sponsors that total 25% of the process costs. *(Grants, or requests for grants, from other funding entities such as the SWBRT or BOR Water Smart programs will not be counted as a cash or in-kind contribution from the project beneficiary.)*

The board has the discretion to consider previous expenditures directly related to the proposed project as matching contributions if those expenditures occurred within six months of the grant application deadline.

Non-profit, or non-governmental organizations, serving on behalf of a broad group of local constituents that do not receive tax revenues and do not have opportunities for third party contributions for the project, may request a reduction of the match requirement to 10% of the total project cost (subject to approval by the board) by garnering and documenting strong community or watershed support for the project.

4. Do I need to present my application to the board at their meeting?

Grant requests will be considered by the board at their February meeting. Please set aside the date, as applicants are encouraged to attend, either by phone or in person, so they can answer questions and participate in the discussion. The board has not asked for formal presentations, instead relying on thorough application forms to address their questions.

5. When are the grant applications due?

Applications will only be accepted from November 2nd to December 11th of the year prior to the project implementation. Staff will be available to answer questions about the process before these dates, but will not accept requests prior to the application dates above. Additional information or updates can also be requested prior to consideration by the board the following February.

6. Will any requests be considered for emergency situations?

SWCD understands that emergency situations may arise from catastrophic or unforeseen events such as flooding or structural failures, and can consider granting emergency funds at other times during the year.

2021 Grant Applications Summary

SWCD budgeted \$230,000 for 2021 requests, which included \$92,000 for water supply/watershed restoration projects, \$34,500 for processes and studies, \$11,500 for education, and \$92,000 for emergency requests. [The applications in blue maintain pre-compact water rights.](#)

Projects: Emergency

Applicant	Project	River Basin	Request	Staff Rec	Director Notes
Aspen Springs Metro District	Buttercup Water Depot Well Drilling	Upper San Juan	\$60,000	up to \$60,000	
	Total Requested		\$60,000	\$60,000	
	Total Available by Category		\$92,000		

Projects: Water Supply/Watershed Restoration

Florida Consolidated Ditch Company	Florida Canal Diversion Structure Rehab Project Phase II	Animas (Florida)	\$25,000	\$25,000	
Montezuma County	Phreatophyte Project	Dolores, McElmo, Mancos	\$18,478.20	reduction to \$15,000	
Town of Ophir	Werner Springs Infiltration System Replacement	San Miguel	\$23,500	\$23,500	
Town of Silverton	Kendall Mtn Well Field Test Drilling Program	Upper Animas	\$11,752	\$11,752	
Twin Buttes Metro District #1	Lightner Creek Fisheries Enhancement	Animas	\$21,212.50	reduction to \$16,748	
	Total Requested		\$99,942.70	\$92,000	
	Total Available by Category		\$92,000	.	

Public Forums, Studies, Planning, Workgroups

Fort Lewis College	Dolores River Adaptive Management Support: Online Repository	Dolores	\$19,550	reduction to \$13,200	
San Juan RC&D (Bonita Peak CAG)	Animas River Data Collection and Standards Proposal Development	Animas	\$15,000	reduction to \$13,200	
Trout Unlimited	Upper San Juan Integrated Water Management Plan, Phase III	San Juan	\$8,897	reduction to \$8,100	
	Total Requested		\$43,447	\$34,500	
	Total Available by Category		\$34,500		

Education: Seminars, Workshops, Programming

Montezuma School to Farm Project	Colorado Water Plan Education Initiative Materials	Dolores, Mancos, McElmo	\$5,000	\$5,000	
	Total Requested		\$5,000	\$5,000	
	Total Available by Category		\$11,500		

2021 Grant Requests Total	\$208,389.70	Staff Recommendation	\$191,500
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**2021 GRANT APPLICATIONS
SUMMARY SHEET**

2021 SWCD Grant Program – Staff Application Review (Date: **1-12-21** Follow-up Date: **1-14-21**)

Name of Project/Applicant: **Aspen Springs Metro District – Buttercup Water Depot**

<u>Total Project/Phase Cost</u>	<u>Amount of Request SWCD funds</u>	<u>Applicant Match (Cash / In-Kind)</u>	<u>Other Funding Sources</u>
\$120,150	\$60,000	\$60,150	
	(less than 50% of total)	(at least 25% of total)	

<u>Project Type</u>	<u>Limits (Annual Max/5 Year Max Since 2018)</u>	<u>SWCD Request</u>
Education	\$5,000 / \$10,000	
Water Supply/Restoration	\$75,000 / \$150,000	
Public Forums/Workgroups	\$20,000 / \$40,000	
Emergency	No limit specified	\$60,000

Statutory Purposes of SWCD (C.R.S. 37-47-101)

Conservation of San Juan & Dolores rivers for storage, irrigation, mining, or manufacturing Purposes; Construction of reservoirs, ditches and works of irrigation and reclamation of lands not yet irrigated, as well as supplemental supply; Promotion of the health and general welfare of State of Colorado; and Safeguarding of water to which Colorado is equitably entitled.

If educational, does the project/program complement SWCD's existing efforts? **N/A**

Pre-Compact Water Right	Yes _____	No <u>X</u> _____
--------------------------------	-----------	--------------------------

<u>Application Information</u>	<u>Criteria Met:</u>
Date Received	X
Eligible Entity	X
Required Match	X
Less than 50% of Total Project Cost	X
Project Type, Description, Location	X
Anticipated Project Timeline	X
Detailed Project Expense Budget	X
No Legal, Payroll, or Grant Admin Costs supported by SWCD	X
Identification of Project Beneficiaries & Partners	X
Summary of Previous SWCD Funding Requests and Awards	X
Not For a Project That Was Already Completed	X – Hear update from applicant at Feb mtg
Use of Funds in 2021	X
Has Secured Remaining Project Funding	X – May seek DOLA funding
Purposes of District	X
-Pre-Compact	
-Compact Development & Entitlement	X
-Health & Welfare	X
-Irrigation & Storage	

Staff Recommendation: **Approve up to \$60,000 with an express understanding that the amount will be reduced or returned by any grant amount received from other sources. This may not qualify if the project has already been completed, so it may be worth reconsidering the implication of this requirement for emergencies and review the grant guidelines. Because this application is to support drilling a well, we believe it fits within the guidelines for drinking water projects.**

Applicant Grant History

Date	Name	Notes	Amount
2021	Aspen Springs Metro District	Buttercup Water Depot <i>(Requested)</i>	<i>\$60,000</i>
			\$60,000

Director Notes/Questions:

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



THE SOUTHWESTERN WATER CONSERVATION DISTRICT

Developing and Conserving the Waters of the
SAN JUAN AND DOLORES RIVERS AND THEIR TRIBUTARIES
IN SOUTHWESTERN COLORADO

GENERAL APPLICATION FOR FINANCIAL ASSISTANCE

SWCD SUBMITTAL CHECKLIST	
Required, Please Initial	
<i>PW</i>	I acknowledge I have read and understand the 2021 SWCD Grant Program Guidelines .
<i>PW</i>	The financial request to SWCD does not exceed 50% of the total project cost.
<i>PW</i>	The applying organization is funding at least 25% of the total project cost.
<i>PW</i>	The request is for funds to be used in 2021, for a project to be completed in 2021.
<i>PW</i>	I understand that SWCD does not fund payroll, legal, or grant administration costs.
<i>PW</i>	I have included a <u>detailed</u> project expense budget.
<i>PW</i>	I have included a <u>detailed</u> project funding budget.
<i>PW</i>	I have consulted with SWCD staff to ensure all minimum criteria has been met.
Optional	
	Feasibility and/or Engineering Studies
<i>PW</i>	Maps
	Photos
	Letters of Support

WATER ACTIVITY SUMMARY			
Date of Submittal	12/11/2020		
Type of Request	Grant <input checked="" type="checkbox"/>	Loan <input type="checkbox"/>	Grant/Loan Package <input type="checkbox"/>
Project Name	Buttercup Water Depot		
Applicant	Aspen Springs Metro District		
Project Location (River Basin)			
Amount of Request	\$60,000.00		
Total Project Cost	\$120,150.00		
Applicant Match	\$60,150.00		
Year for Use of Funds	2021		

WATER ACTIVITY CATEGORY		
X	Limit	Category
X	\$75,000	Water Supply/Watershed Restoration: Water supply or watershed restoration projects, including design, engineering, and construction
	\$20,000	Public Forums/Studies: Public forums, work groups, studies, planning efforts
	\$5,000	Education: Teaching seminars, workshops, and related programs
	N/A	Emergency: Situations arising from catastrophic or unforeseen events
<p>Note: The amount of funding each applicant may receive is further limited by the funding received in any given five-year period, as well as the total amount allocated to each category by the board. Review the guidelines carefully and consult staff if needed (970-247-1302).</p>		

APPLICANT INFORMATION	
Name of Authorized Entity	Aspen Springs Metropolitan District
Type of Qualified Entity (See Guidelines)	Local Governmental District
Mailing Address	PO Box 488
Federal ID Number	74-2212616
Contact Person	Pam Wallis
Position/Title	Public Works Officer
Phone Number	970-946-0691
Email	BPDwallis@aol.com

APPLICANT DESCRIPTION
<p>Please provide a brief description of the applying entity. For ditch companies, please provide the number of shareholders, acres served, and annual assessment.</p> <p>Aspen Springs Metropolitan District is a local governmental entity whose charter includes road maintenance, water service and parks. The District (ASMD) services one of the largest subdivisions in the United States. Total acreage 4,511.419. (See attached for population, building permits pulled for new construction, total households/units, total vacant household units, income, and breakdown of acreage per units of our subdivision.) In addition, Aspen Springs is one of the poorer communities in Archuleta County. Residents are primarily employed in service industries. (Food service, retail, etc.)</p> <p>Road Maintenance - We maintain 68 miles of primarily gravel roads including snow removal in a challenging mountainous environment.</p> <p>Water Supply – The ASMD maintains a community well which supplies a small treatment facility and water loading station. Aspen Springs does not have a water distribution system.</p> <p>Parks – The District owns and maintains 120+ acres of green space with a small park pavilion, volleyball court and 9-hole disc golf course.</p> <p>The Districts (3 year) average revenue is \$431,473. Average expenditures during that period are \$423,732. While reserves exist, our annual operating budget is small and very tight. Luckily, the District carries very little debt. (See Lease/Purchase agreement attached.)</p>

WATER ACTIVITY DESCRIPTION

Please provide a narrative description of the activity's physical location, as well as its purpose and benefits. Provide a description of the water supply source to be utilized or the water body affected by the project. If possible, include measureable results such as acres served, watersheds impact, types of crops, number of taps, length of ditch improvements, length of pipe installed, area of habitat improvements, or students impacted. Photos, maps, or other graphics can be inserted here or attached.

Please explain how the project assists SWCD in furthering its statutory mission to protect, conserve, use, and develop the water resources of southwestern Colorado, as well as safeguard all waters to which Colorado is entitled. Specifically, if you project enhances or preserves any pre-compact water rights, please describe the quantities, appropriation dates, and adjudication dates of those rights. For help acquiring water rights information, call DWR (970-247-1845).

The District managed community water supply is obtained solely from a deep (720') artesian well. This water chlorinated, stored on-site at the facility and distributed to residents via a 2" fill pipe. Residents then haul the water to their homes via tanks carried by truck or trailer.

In late November of 2020, the well failed completely. The cause appears to be mechanical failure of the original 2009 well casing. We are currently investigating the cause including possible construction defects.

Currently, our large subdivision has NO water supply. Residents must haul water from a public fill station approximately 10 miles east. The current situation creates several hazards and hardships for our already struggling community, including:

- A shortage of potable water during a nationwide pandemic affecting personal and household cleanliness.
- Added cost of water for a local population already economically stressed.
- Transporting water creates additional traffic through a highway intersection recently noted as the most dangerous in Archuleta County by CDOT and the county commissioners.
- Heavily loaded private vehicles (a full 300 gallon tank weighs approx. 2500lbs) must traverse 8-12 miles of 2-lane highway to deliver water to their homes.

--

WATER PROJECT TIMELINE

Please provide a narrative description of the timeline for the project's major tasks and/or a detailed outline.

The entire project should take one-to-four weeks, depending on conditions, weather, availability, etc. The drilling companies are all backed up and the one we chose would have to finish their prior commitments before they could get to us, although they DO know this is an emergency. Although the time frames are estimates, they told us approximately three weeks out before beginning. That was several days ago. Although we were hoping to start immediately, it looks as though it will be in January 2021.

--

ENGINEERING AND LEGAL FEASIBILITY
--

Will the Project require the acquisition of an additional water right or change of existing water rights? If yes, please explain.

No.

Will the Project require state or federal regulatory permits of any type? If yes, please explain.
Yes. Well permit from State of Colorado.
Please list below and attach to this application any feasibility studies or investigations that have been completed or are now in progress for the proposed project.
All studies were completed prior to the original well installation.

WATER ACTIVITY BUDGET
Please provide any narrative description of the project expense and funding budget that is necessary. Please describe in-kind contributions, if any, and the anticipated decision date for those funding requests that have not already been approved.
Copies of estimates attached. In-kind contributions will include some excavation and miscellaneous dirt work needed for the drilling procedures, and re-set up of all in-building plumbing for pump and misc valves, meters, and chlorinator, and trenching from new location to existing building/system including line extension.

MATCHING REQUIREMENTS	
Applicants must demonstrate that they are actively contributing to the project for which they are requesting funding. Any grant approval will be contingent upon the recipient ultimately demonstrating that they have secured funding for the full project cost.	
In addition, applicants must also demonstrate that they will provide, through a cash contribution and/or the performance of in-kind services, at least 25% of the total project costs. See the guidelines and speak to staff for further clarification. Attach additional information if necessary.	
Contributing Entity	Amount and Form of Match (note cash or in-kind)
ASMD	\$60,150.00 cash and in-kind
Total Applicant Match (At Least 25%)	\$60,150.00
Total Other Funding	pending
SWCD Request (Up to 50% of Project Cost)	\$60,000.00
Total Project Cost	\$120,150.00

WATER PROJECT BUDGET

Please provide a detailed project budget. You can use the template below or provide a more detailed table in an attachment.

Note: Please describe any payroll or legal costs, as well as any costs for administering this and other grants. SWCD will not fund those portions of the project.

Task/Materials Description	Funded By (Applicant, SWCD, Other)	Amount
Drill new well	SWCD	\$60,000.00
Drill new well	Applicant	42,150.00
Destroy existing well (required)	Applicant	18,000.00
Total Project Cost		\$120,150.00
Grant Administration Costs as a Percentage of Total Project Cost		50%

PREVIOUS SWCD AWARDS AND REQUESTS

Please list all previous request and awards from SWCD by year, amount, and project title. Please ensure that your entity does not exceed the five year limits on awards outlined in the [guidelines](#).

None

APPLICANT LIABILITY OR INDEBTEDNESS

Please list any existing long-term liability (multi-year) or indebtedness that exceeds one thousand dollars. This might include bank loans, government agency loans, or bond issues. Please provide the lender name, address, remaining principal, annual payment, and maturity date. If any of these liabilities are currently in default or have been in default at any time in the past, please provide a detailed explanation. Attach a separate schedule as necessary.

Caterpillar Financial Services – Lease/Purchase of 2018 Caterpillar 430F2 Backhoe Loader
See attached

FOR LOAN REQUESTS

Please identify all revenue sources for the applicant that would be available to repay SWCD should financial assistance be offered in the form of a loan.

Property taxes
Specific Ownership tax
Highway Users Trust Fund proceeds

APPLICANT SIGNATURE

By signing below, I acknowledge I have read the SWCD Grant Program guidelines, I understand

the program requirements, and I submit this application, which is complete and true to the best of my knowledge.

Should the grant funds be awarded, I commit to requesting funds when they are needed, and using them only for the specific purpose and amount indicated in my application. SWCD requires written documentation of all committed project funds prior to disbursement.

I understand that if the project is under budget, there is an expectation that grant funding will be returned to SWCD in the proportion the project was under budget.

I understand that if the intended use of grant funds changes, board approval will be necessary. I also understand that SWCD may require additional documentation regarding the use of the funds at its discretion.

I acknowledge SWCD's requirement for a final written report, including a description of work completed and a detailed accounting of the use of funds.



Signature

December 11, 2020

Date

Printed Name Pam Wallis

Please sign and submit the completed application and any supplemental information via email to lauras@swwcd.org or mail it to SWCD 841 E. 2nd Ave., Durango, CO 81301.

Do not hesitate to contact staff with any questions as you develop your application:
Laura Spann, 970-247-1302, lauras@swwcd.org

LEASE-PURCHASE SUPPLEMENTAL SCHEDULE TO THE ADOPTED BUDGET

(Pursuant to 29-1-103(3)(d), C.R.S.)

Budget Year 2021

The Supplemental Schedule must present information **separately** for all lease-purchase agreements involving real property and all lease-purchase agreements for non-real property.

I. REAL PROPERTY LEASE-PURCHASE AGREEMENTS:

Description of Real Property Lease-Purchase(s):

LEASE OF 2018 CATERPILLAR 430f2 BACKHOE LOADER

Date of Lease-Purchase Agreement(s): FEBRUARY 2018

	<u>Year</u>	<u>Amount</u>
Total amount to be expended for all Real Property Lease-Purchase Agreements in Budget Year:	<u>2021</u>	\$ <u>21271</u>
Total maximum payment liability for all Real Property Lease Purchase Agreements over the entire terms of all such agreements, including all optional renewal terms:		\$ <u>85087</u>

II. ALL LEASE- PURCHASE AGREEMENTS NOT INVOLVING REAL PROPERTY:

Description of Lease-Purchase Item(s):

Date(s) of Lease-Purchase Agreement(s): _____

	<u>Year</u>	<u>Amount</u>
Total amount to be expended for all Non-Real Property Lease Purchase Agreements in Budget Year:	_____	\$ _____
Total maximum payment liability for all Non-Real Property Lease Purchase Agreements over the entire terms of all such agreements, including all optional renewal terms:		\$ _____

Does the agreement include renewal options? Yes _____ No _____
If yes, describe:

From: ronniezaday@gmail.com,

To: pagosaevans@gmail.com, bpdwallis@aol.com,

Subject: Here is the information I have pulled from assessors info -

Date: Thu, Dec 10, 2020 2:30 pm

Total Land	Sub 1		545.495
	Sub 2		754.322
	Sub 3		396.3
	Sub 4		707.062
	Sub 5		711.46
	Sub 6		<u>1396.78</u>
		Acres	4511.419
	ASMD		128.4
	Road 68 miles		
lots counts	2579		
prop owner	1730		

At 640 acres per sq mile _ 4500 is over 7 square miles in the 6 subdivisions.

I talked to Ronnie Maez the commissioners will do a letter of support for you, he suggested a request for them supporting "well improvements" so as not to raise red flags with Water peeps and Utes. Have to make a request present to board etc.

I also got a hold of Pam Flowers - Building and Planning – request a count of building permits etc. over the last few years so we can show increase in population. They will get to me asap. I will get to you both.

I have call into the School District to see if we can get count of how many ASMD kids in school - will let you know what I get.

Ronnie Zaday

Total Population

Births

Deaths

Net Migration

Natural Increase

No Grouping

Group by Year

Group by County

View Results

Download CSV

CFIPS	YEAR	COUNTY	Total Population
	2015		12,408
	2016		12,843
	2017		13,314
	2018		13,734
	2019		14,002

Select 1 or more statistics:

^
Natural Increase
Census Building Permits
Group Quarters Population
Household Population
Households
Household Size
v

☐ No Grouping ☒ Group by Year ☐ Group by County

[View Results](#)

[Download CSV](#)

CFIPS	YEAR	COUNTY	Census Building Permits
	2015		75
	2016		113
	2017		131
	2018		173
	2019		162

Select 1 or more statistics:

Population Increase
Census Building Permits
Group Quarters Population
Household Population
Households
Household Size

☐ No Grouping ☒ Group by Year ☐ Group by County

[View Results](#)

[Download CSV](#)

CFIPS	YEAR	COUNTY	Households
	2015		5,410
	2016		5,600
	2017		5,808
	2018		5,993
	2019		6,111

Select 1 or more statistics:

- Households ^
- Household Size
- Total Housing Units
- Vacancy Rate
- Vacant Housing Units v

☐ No Grouping ☒ Group by Year ☐ Group by County

View Results

Download CSV

CFIPS	YEAR	COUNTY	Total Housing Units
	2015		9,095
	2016		9,203
	2017		9,335
	2018		9,507
	2019		9,679

Select 1 or more statistics:

Households

Household Size

Total Housing Units

Vacancy Rate

Vacant Housing Units

^

▼

☐ No Grouping ☒ Group by Year ☐ Group by County

[View Results](#)

[Download CSV](#)

CFIPS	YEAR	COUNTY	Vacant Housing Units
	2015		3,685
	2016		3,603
	2017		3,527
	2018		3,514
	2019		3,568

Regional Data

GDP and Personal Income

Description

Table Major Area State Area/Statistic Time Period Selected Data + %

AINC1 Personal Income Summary: Personal Income, Population, Per Capita Personal Income

GeoFips	GeoName	LineCode	Description	2017	2018	2019
007	Archuleta, CO	1	Personal income (thousands of dollars)	543,667	583,298	604,478
007	Archuleta, CO	2	Population (persons) 1/	13,295	13,730	14,029
007	Archuleta, CO	3	Per capita personal income (dollars) 2/	40,893	42,483	43,088

Legend/Footnotes

1/ Census Bureau midyear population estimates. Estimates for 2010-2019 reflect county population estimates available as of March 2020.

2/ Per capita personal income was computed using Census Bureau midyear population estimates. Estimates for 2010-2019 reflect county population estimates available as of March 2020.

Metropolitan Areas are defined (geographically delineated) by the Office of Management and Budget (OMB) bulletin no. 20-01 issued March 6, 2020.

Note-- All dollar estimates are in thousands of current dollars (not adjusted for inflation). Calculations are performed on unrounded data.

Last updated: November 17, 2020. New statistics for 2019; revised statistics for 2010-2019.

From: ronniezaday@gmail.com,

To: pagosaevans@gmail.com, bpdwallis@aol.com,

Subject: got the attached info from Assessor

Date: Thu, Dec 10, 2020 4:58 pm

“Because there are several types of homes in Aspen Springs, I have an average for the Residential and manufactured homes (these are unpurged) mobile’s. That way you can decided what to do.

The residential consists of 617 single family with an average of \$150,950

The mobile homes consists of 161 mobile’s with an average of \$13,310

We also have other averages such as the average land value of \$17,566

If I put the residential with the mobile for a total average of the two combined I get an average of \$122,467”

From assessor’s office



Estimate

12/8/2020

DAK Drilling LLC
PO Box 1577 Ignacio, CO 81137

Name/ Address
Aspen Springs Metro Dist.
PO Box 488
Pagosa Springs CO 81147
970-946-0691
bpdwallis@aol.com

Residential Well Estimate

Pagosa Springs, CO

Estimate expires in 30 days.

Initial Each
Line

Description

Unconsolidated Formation Drilling (Sands & Gravels)

Casing Advance Drilling - Setting steel casing 7"	730	Foot \$	105	# 76,650.-
Drilling Shoe (one used with casing advance)		Each \$	1,900	
Artesian Flow Pitless 7"		Each \$	10,000	10,000.-
Cement		Each \$	6,500	6,500.-
Welding		Each \$	5,500	5,500.-
Excavation		Each \$	3,500	3,500.-
Airlift Development		Lump Sum \$	2,000	
				# 102,150.00

****\$ 10,500 is the minimum charge for a well. A \$10,500 deposit required with signed contract.****

Well pricing includes pvc casing, cement, gravel and well cap.

This estimate is for well drilling only. DAK can provide a separate estimate for pump installation once the well has been complete if requested by the Customer.

Any additional time and materials not listed may result in additional cost and/or changes to the contract. agreement.

Quantities shown are estimates only. Actual quantities installed will be invoiced and may vary from those shown.

All agreements are contingent upon weather, accidents, conditions, and/or delays beyond our control.

DAK Drilling LLC is not responsible for the following:

- Existing damages to structures and/or landscaping.
- Quantity or Quality of water produced.
- Permitting of any kind for the work or access thereto
- Cuttings or fluid disposal, reclamation, traffic control, or any stormwater permitting

Customer Signature

Date

Name (Please Print)



Estimate

12/9/2020

DAK Drilling LLC
PO Box 1577 Ignacio, CO 81137

Name/ Address
Aspen Springs Metro Dist.
PO Box 488
Pagosa Springs CO 81147
970-946-0691
bpdwallis@aol.com

Residential Well Estimate Pagosa Springs, CO

Estimate expires in 30 days.

Initial Each
Line

Description

Abandonment of existing well				
Gravel pack and cement well	720	Foot \$	25	\$ 18,000.-

****\$ 10,500 is the minimum charge for a well. A \$10,500 deposit required with signed contract.****

Well pricing includes pvc casing, cement, gravel and well cap.

This estimate is for well drilling only. DAK can provide a separate estimate for pump installation once the well has been complete if requested by the Customer.

Any additional time and materials not listed may result in additional cost and/or changes to the contract. agreement.

Quantities shown are estimates only. Actual quantities installed will be invoiced and may vary from those shown.

All agreements are contingent upon weather, accidents, conditions, and/or delays beyond our control.

DAK Drilling LLC is not responsible for the following:

- Existing damages to structures and/or landscaping.
- Quantity or Quality of water produced.
- Permitting of any kind for the work or access thereto
- Cuttings or fluid disposal, reclamation, traffic control, or any stormwater permitting

Customer Signature

Date


Name (Please Print)

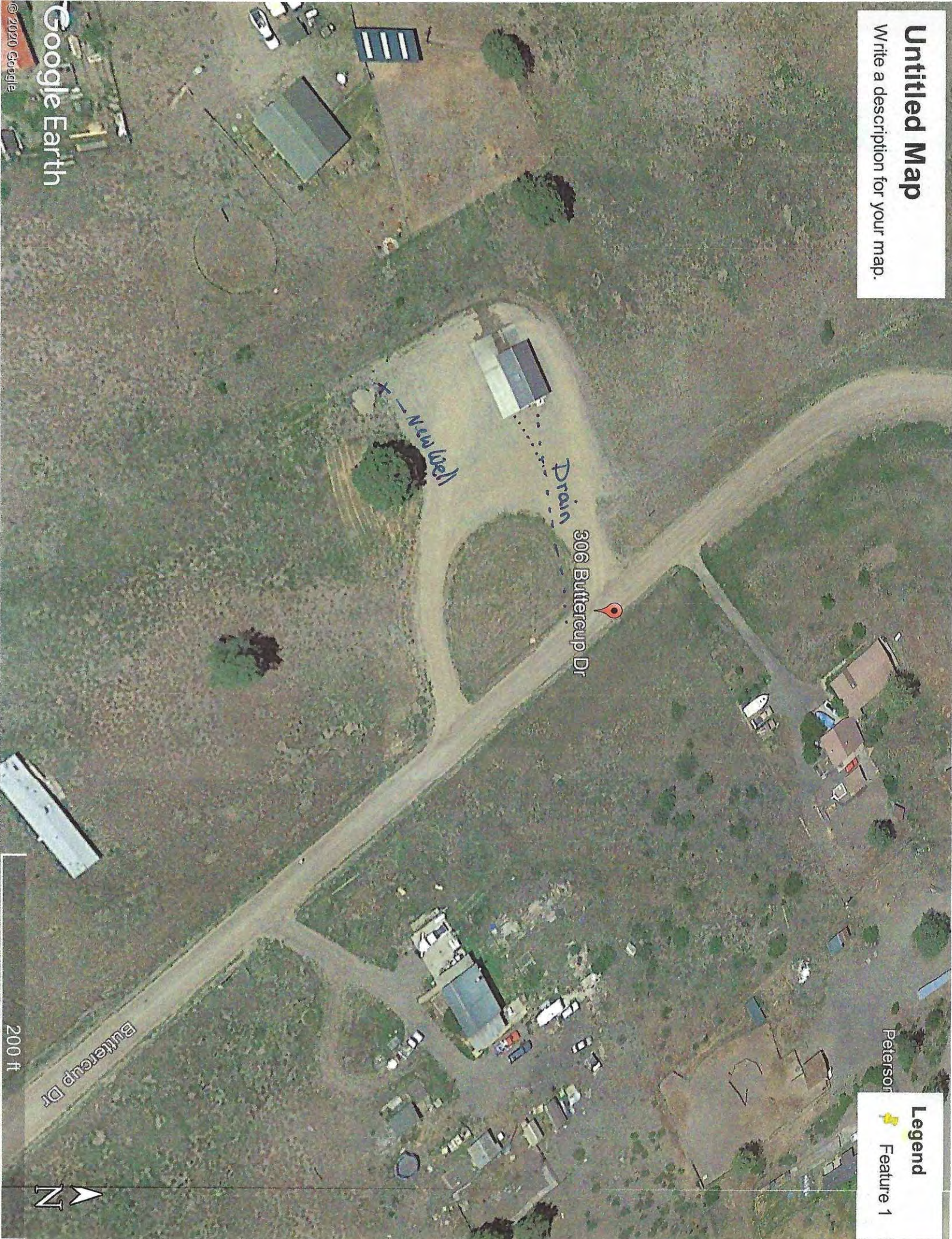
Untitled Map

Write a description for your map.

Peterson

Legend

 Feature 1



Buttercup Dr

306 Buttercup Dr

New Well

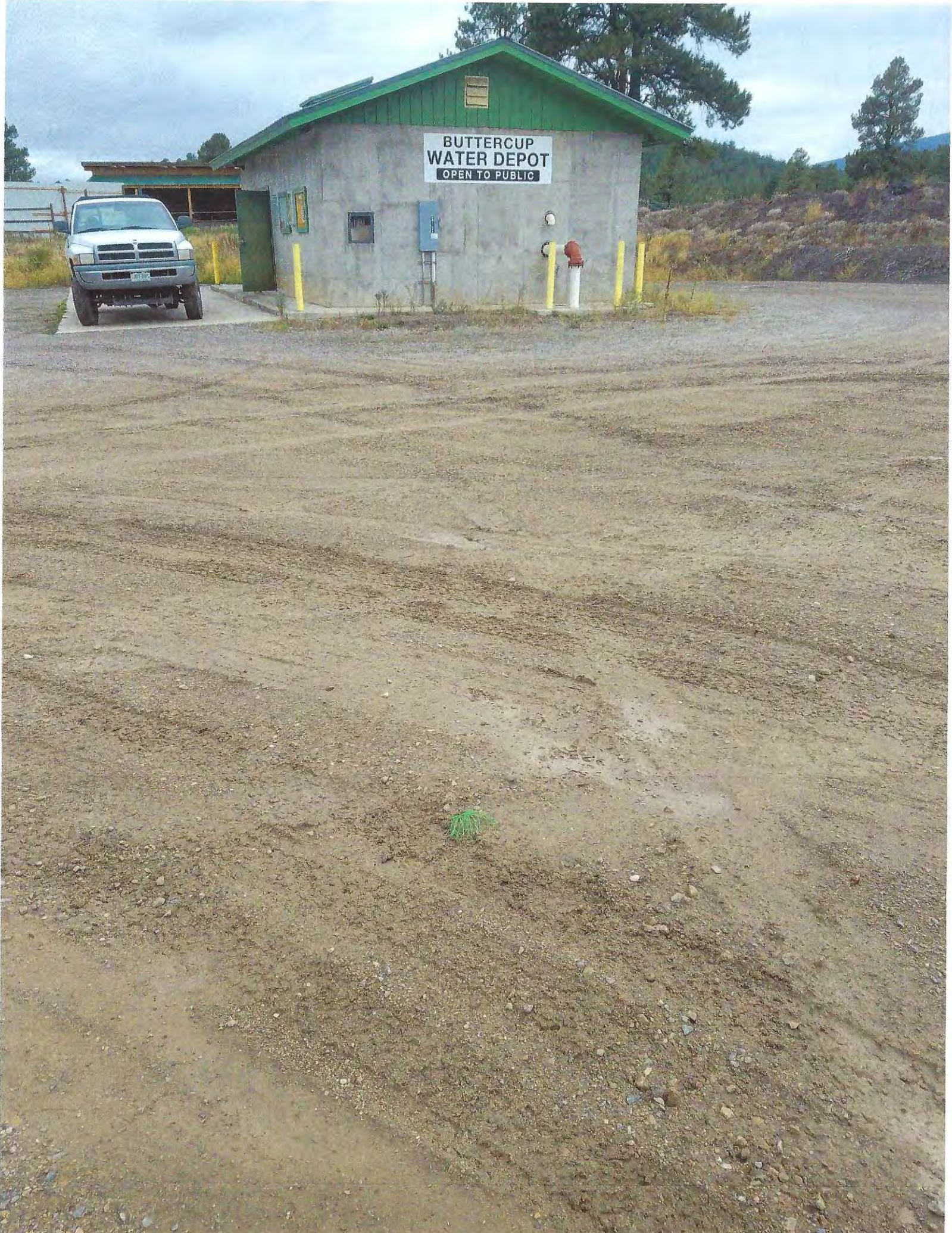
Drain

200 ft



A photograph of a small, single-story building with a green metal roof and light-colored concrete walls. A sign on the wall reads "BUTTERCUP WATER DEPOT" and "OPEN TO PUBLIC". The building has a small window with horizontal slats near the roofline, a blue electrical panel, and a white pipe with a red valve. Three yellow bollards are positioned around the building. The foreground is a gravel lot, and the background shows a hilly landscape with trees and a cloudy sky.

**BUTTERCUP
WATER DEPOT**
OPEN TO PUBLIC



BUTTERCUP
WATER DEPOT
OPEN TO PUBLIC

The Aspen Springs Metropolitan District recently had major issues with our local well/water station which has "failed". It is a much needed, however pricey project. Because the entire project will be in excess of \$120,000.00, we are seeking grants to assist us.

We are hoping for assistance from SWCD to cover up to 50% of the project. In addition, we have had a conference call with several other representatives from several other entities on assisting with funding through other available grants. So far, we have contacted CDPHE, DOLA, and CWRPDA and although there isn't a large amount available, we seem to fall into their guidelines.

As for a summary of our conversation with them, the conversation was mostly summarizing the situation of the well failure, our district and what we do, the size of our district, and a lot of the same information that has been provided to you. In addition, we did learn that if one of the State agencies can offer funding, prevailing wages would need to be paid for any work on site; Federal funding would not. Prevailing wages would mean there would be a need for approximately 2-1/2 times what we were originally seeking due to the increased payroll that it would create.

Please review the following pages which gives a little bit of an overview of the entire situation and the project better than the original application we submitted. Please understand that we learned of the available grants just a day or so prior to the deadline so a lot of the paperwork originally submitted was quite rushed; please accept my apologies for any confusion.

General Information about Aspen Springs Metropolitan District:

Aspens Springs Metro District is a local governmental entity whose charter includes road maintenance, water service, and parks. The District (ASMD) services one of the largest subdivision in the United States; total acreage 4,511.419. In addition, Aspens Springs is one of the poorer communities in Archuleta County. Residents are primarily employed in service industries (food service, retail, etc.).

Road Maintenance - We maintain 68 miles of primarily gravel roads including snow removal in a challenging mountainous environment.

Water Supply - The ASMD maintains a community well which supplies a small treatment facility and water loading station. Aspen Springs does not have a water distribution system.

Parks - The District owns and maintains 120+ acres of green space with a small park pavilion, volleyball court and 9-hole disc golf course.

The District's (3 year) average revenue is \$431,473. Average expenditures during that period are \$423,732. While reserves exist, our annual operating budget is small and very tight. Luckily the District carries very little debt (lease/purchase agreement backhoe/loader, 2021 obligation is \$21,271).

The District-managed community water supply is obtained solely from a 720 ft deep artesian well. This water is chlorinated, stored on-site at the facility and distributed to residents via a 2" fill pipe. Residents then haul the water to their homes via tanks carried by truck or trailer.

In the late November of 2020, the well failed completely. The cause appears to be mechanical failure of the original 2009 well casing. We are currently investigating the cause including possible construction defects.

Currently, our large subdivision has NO water supply. Residents must haul water from a public fill station approximately 10 miles east. The current situation creates several hazards and hardships for our already struggling community, including:

- A shortage of potable water during a nationwide pandemic affecting personal and household cleanliness.

- Added cost of water for a local population already economically stressed.

- Transporting water creates additional traffic through a highway intersection recently noted as the most dangerous in Archuleta County by CDOT and the County commissioners.

- Heavily loaded private vehicles (a full 300 gallon tank weighs approx. 2500 lbs.) must traverse 8-12 miles of a 2-lane highway to deliver water to their homes, and now currently under hazardous icy conditions.

Project Description:

The entire project should take one-to-four weeks, depending on conditions, weather, availability of materials, etc.

Phase I:

Set up and drill to the depth of approximately 600-680 feet, then pressure grout with cement. Drill down through cement to 720-730 feet and install 7" steel casing from bottom to surface. Perforations would be in the lower portion only, below the cemented area. (See attached diagram.)

Phase II:

Existing well: Remove top well head. Concrete pump cement from bottom of well up to the surface, sealing off all water seepage. (See attached diagram.)

Phase III: Plumb from new well to existing water distribution system.

Project Budget:

Well drilling bids are often rough estimates as there are many factors involved that could create additional charges. Drilling a new well to the approximate depth of the existing well could cost \$102,150.00. Destroying the existing well (required) should cost \$18,000.00. The connection from the new well to the facility (approximately 92 feet) is not included in that cost at this point. We are estimating the majority of this project to be \$120,150.00 plus the connection (awaiting pricing for the connection).

Public health risks:

When individuals haul their water, they are generally quite conservative in their usage. With the current inconvenience of having to drive approximately 10 miles to the nearest fill station, many of the residents are thus conserving even more. This could include washing and bathing less often.

This also adds to the risks on the road. Our water station is located centrally in our district, with easy access just 1/4 mile off of Hwy 160 with very little incline. The residents can inch their way over our roads with very little-to-no highway traveling. A lot of residents have older vehicles for hauling their water. This could include inferior maintenance on brakes and/or tires. With our water station down, all of these residents are driving these vehicles down a busy highway, possibly snow or ice covered, with 2500 pounds of water in the back of their vehicle with possibly compromised vehicle maintenance.

Population the project serves:

This figure is almost impossible to calculate. There are 778 homes or mobiles that are being taxed in the subdivision. There is at least double that figure in people living in

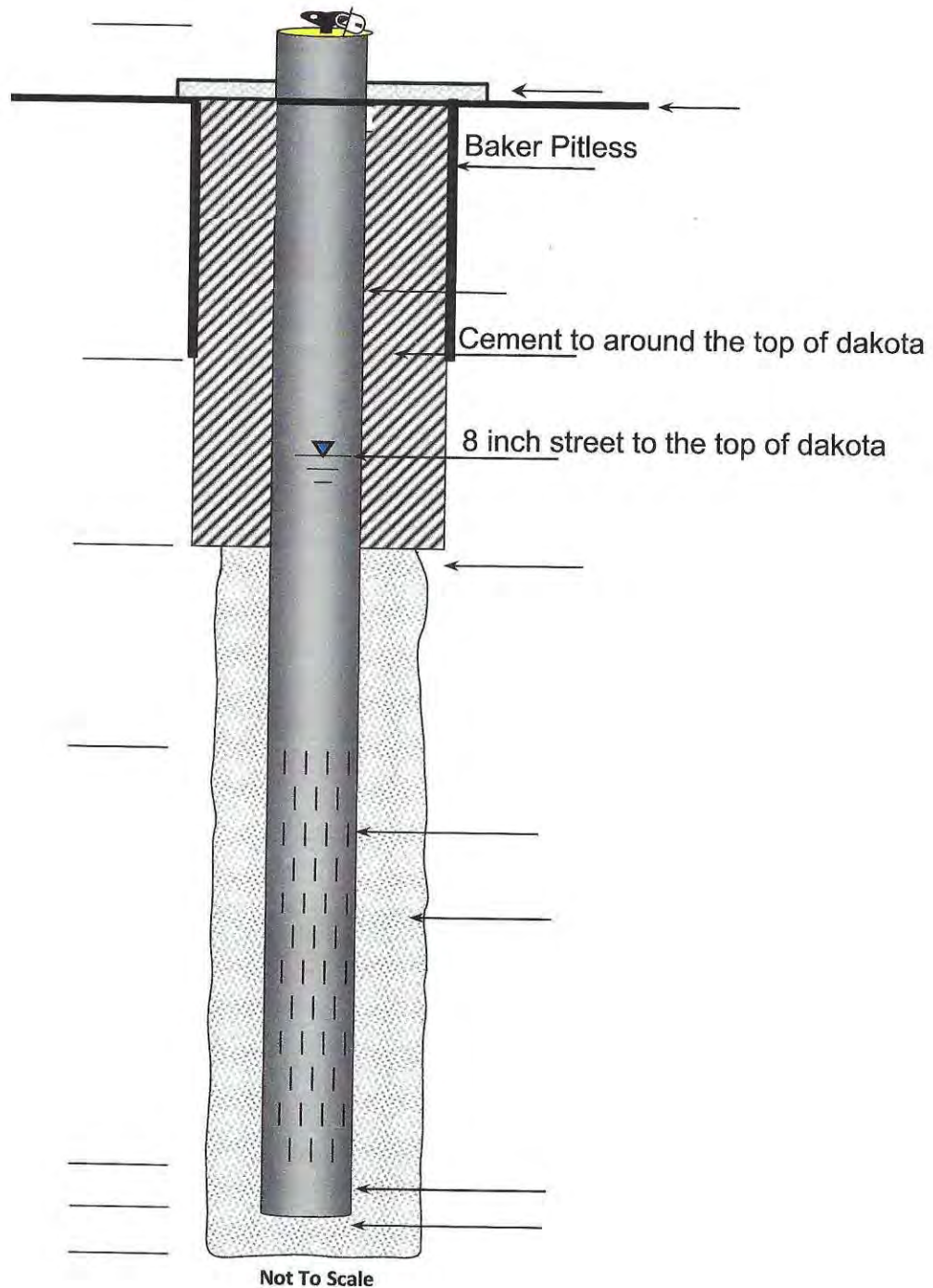
trailers and small constructed buildings (that are under the footings required to pull permits).

There are over 1200 registered voters in Aspen Springs. Many people live in this subdivision part time and are not voters here.

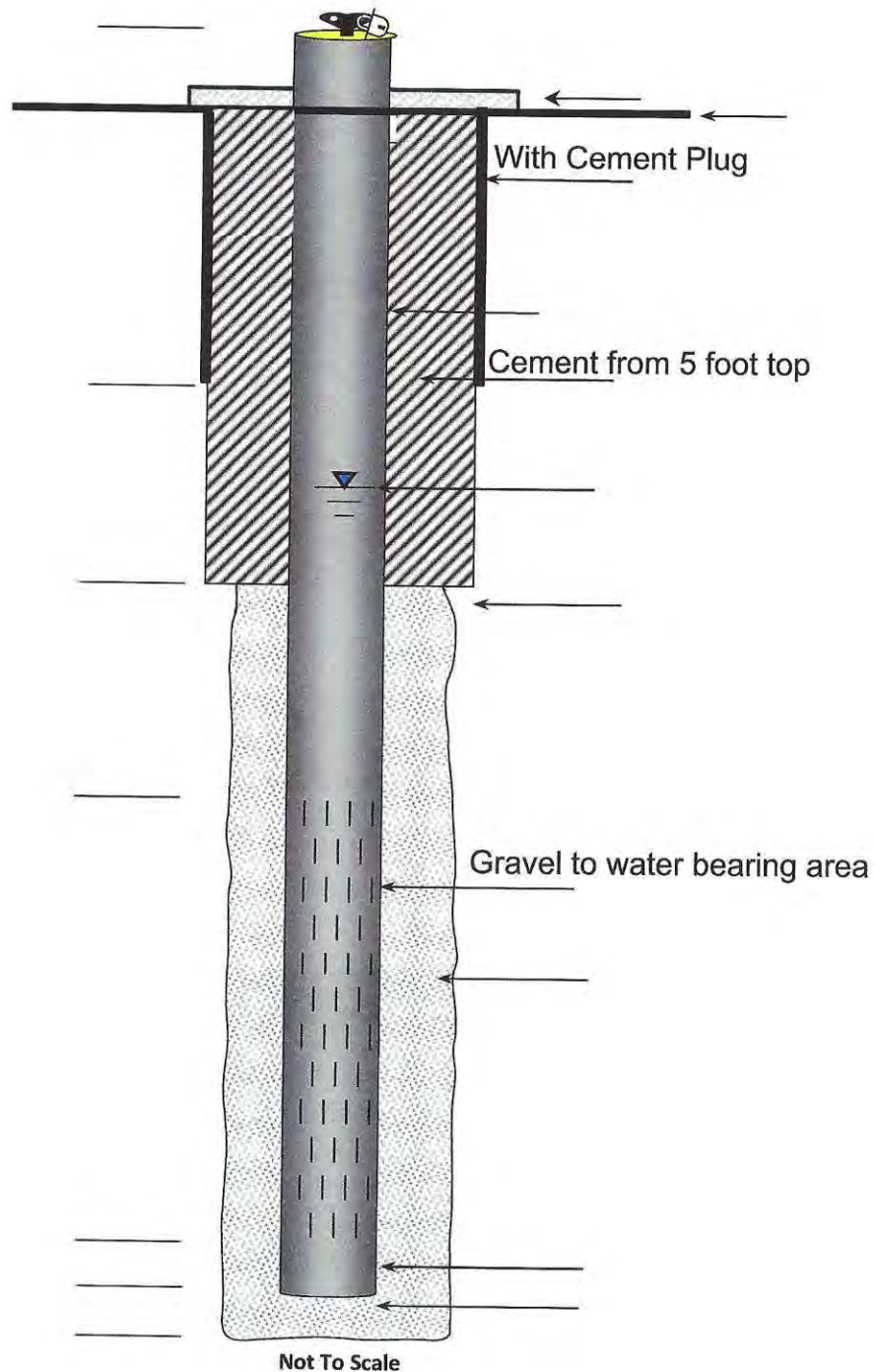
I tried to get the number of children registered in the schools that are from Aspen Springs, but they could not give me a figure. I have put a call into the school bus barn to see how many children get picked up and/or dropped off in Aspen Springs, but I've not yet been able to speak to anyone about this.

Maps and Photos:

I have attached some maps of Aspen Springs to show what the terrain is like. In addition, a few pictures of our roads. The majority of Aspen Springs is in a mountainous area with lots of inclines, narrow roads, and deep ravines.



Aspen Springs Metro Well



Aspen Springs Metro Abandonment

Total Land in Aspen Springs

Subdivision	Acres
1	545.495
2	754.322
3	396.3
4	707.062
5	711.46
6	1396.78
Total	4511.419

Total Lots	2,579
Total Owners	1,730

Over 7 sq miles in all

Constructed Homes and Average Values

Units		Average Value
Single-Family Homes	617	\$150,950.00
Mobile Homes	161	\$13,310.00
Land value		\$17,566.00

Adding the houses to the mobiles, there is an average of \$122,267.00 in value.

Total of 778 homes that are being taxed as real property. There are many lots with campers or small buildings being lived in that are under the s.f. requirement for permits, however there is no way to determine the exact amount. There are at least the same amount, probably double, of campers that one or more people are living in that depend on water from this water station.

In 2020 low average of 5399 gallons (18 loads at 300 gal/load) and the high average of 14,536 gallons (48.5 loads) per day was dispensed. (See attached graphs.)

Archuleta County has an average household income of \$41,947 which is 77% of the national average. 34% of Archuleta County households are "low wage workers" making less than \$27,990 per household. Most of these "low wage workers" live in Aspen Springs.

Building Permits Pulled in Aspen Springs
--

Year	Permits	Homes
------	---------	-------

2019	25	10
2018	34	13
2017	29	13
2016	28	27
2015	23	9

Total number of permits by year in Aspen Springs. We cannot determine that these are all homes, so the number of homes is an estimate based on percentage permits that were homes for that year.

ASPEN SPRINGS FILL STATION

Yearly Summary 2020

	Total Gallons Dispensed	Total Estimated Revenue	Average Daily Gallons	Maximum Daily Gallons	Maximum Chlorine Reading	Minimum Chlorine Reading	Average Chlorine Reading
Jan	167,380	\$1,046.13	5,399	10,790	2.90	1.40	2.05
Feb	160,320	\$1,001.13	5,528	10,110	3.41	1.32	2.37
Mar	192,180	\$1,201.13	6,199	14,440	3.50	1.88	2.50
Apr	259,430	\$1,619.03	8,648	14,940	3.18	1.10	2.13
May	356,880	\$2,230.50	11,512	20,980	3.61	0.97	2.20
Jun	366,360	\$2,289.75	12,212	19,110	4.35	0.54	2.11
Jul	409,880	\$2,561.75	12,212	23,940	4.29	0.88	2.26
Aug	450,620	\$2,816.38	14,536	23,640	3.37	0.39	1.94
Sep	333,620	\$2,085.13	11,121	32,870	3.29	0.44	1.63
Oct	237,156	\$1,482.23	7,650	17,850	3.89	0.22	2.30
Nov	166,130	\$1,038.31	5,538	12,530	3.92	1.13	2.40
Dec							


TOTAL GALLONS DISPENSED-3,099,956

[illegible]


Untitled Map

Write a description for your map.

Legend

 Feature 1

 Buttercup Water Station

 New Well



100 ft

Google Earth

© 2020 Google

Untitled Map

Write a description for your map.

Legend

ASMD
Water Station

PAWSD
Water Station

San Juan St

160

Google Earth

© 2020 Google



1 mi





Water Station in
Untitled Map vint 2

Write a description for your map.

Legend

-  Feature 1
-  Keyah Grande

 Buttercup Water Station

 Neal, Kevin

Meadowlark Dr

Meadow Lark Dr

Flicker Ln

Buttercup Dr

San Juan St

160

Google Earth

© 2020 Google





400 ft

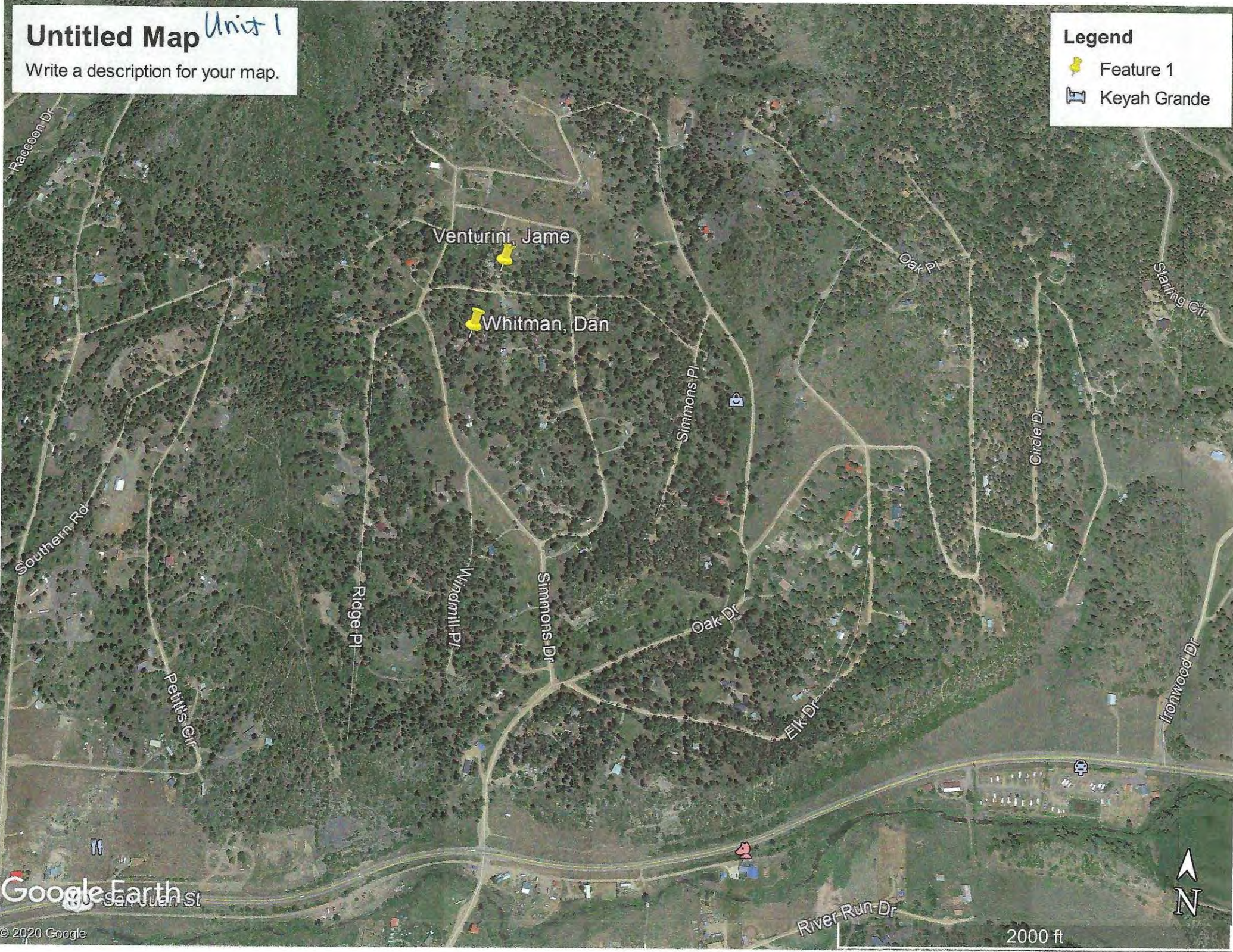
Untitled Map *Unit 1*

Write a description for your map.

Legend

 Feature 1

 Keyah Grande



Google Earth

© 2020 Google



2000 ft

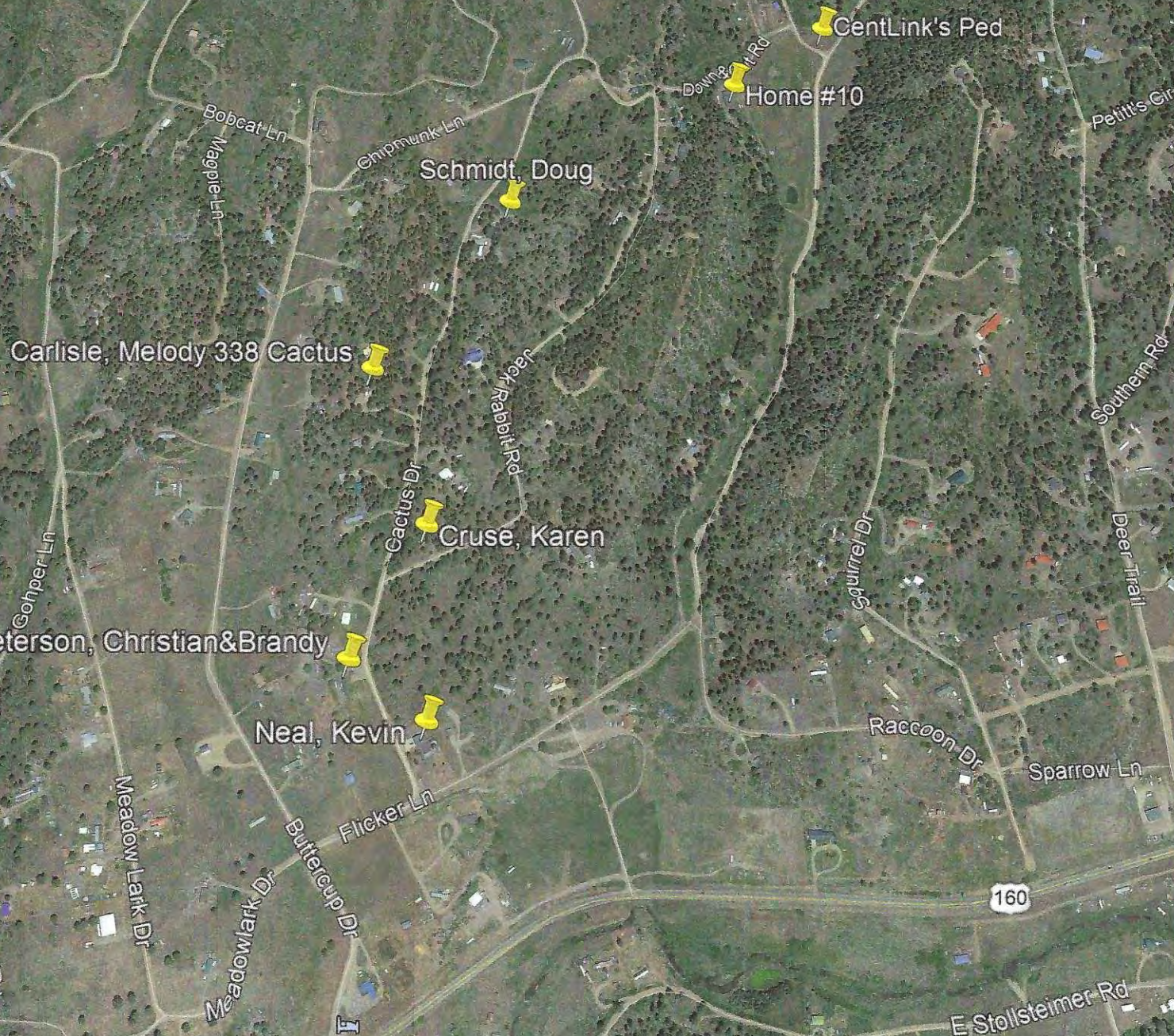
Untitled Map

Write a description for your map.

Unit 2

Legend

-  Feature 1
-  Keyah Grande




Untitled Map

Unit 3

Write a description for your map.

Legend

-  Feature 1
-  Keyah Grande

Soares, Sheila

Panorama Pl

Feno Ln

Oakridge Dr

Hummingbird Pl

Evergreen Dr

Hilltop Dr

Acorn Dr

Starbrig Pl

Blue Jay Dr

Bob White Dr

Robin Dr

Weasel Dr

Blue Jay Ct

139



1000 ft

Google Earth

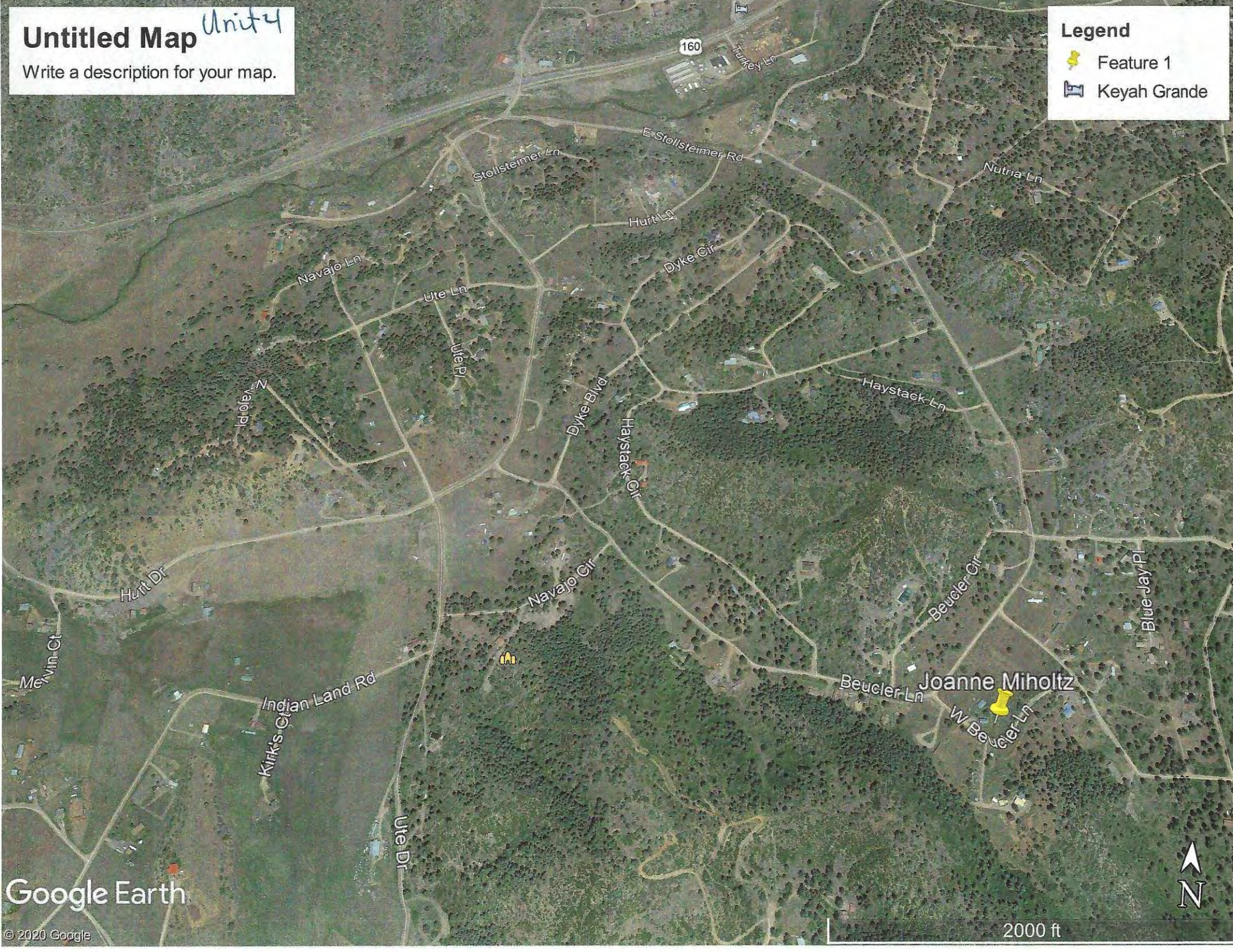
Untitled Map *Unity*

Write a description for your map.

Legend

 Feature 1

 Keyah Grande



Google Earth



© 2020 Google

2000 ft

Untitled Map *Unit 5*

Write a description for your map.

Legend

-  Feature 1
-  Keyah Grande

Joanne Miholtz

Google Earth

© 2020 Google



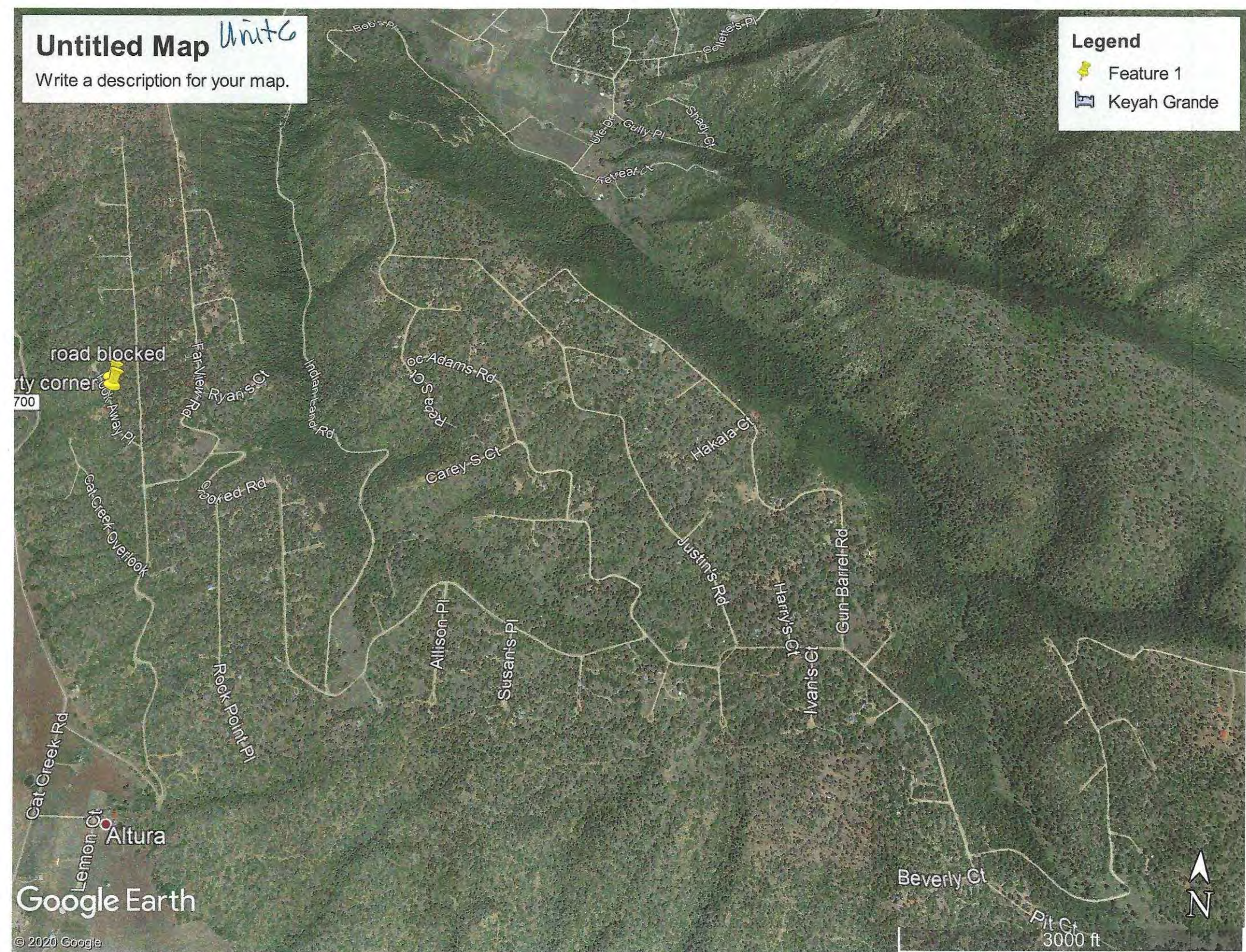
2000 ft

Untitled Map *Unit 6*

Write a description for your map.

Legend


-  Feature 1
-  Keyah Grande



Overlook of all
Untitled Map of A.S.

Write a description for your map.

Legend

-  Feature 1
-  Keyah Grande

Venturini, Jame
Whitman, Dan
Schmidt, Doug
Home #10
Carlisle, Melody 338 Cactus
Peterson, Christian&Brandy
Neal, Kevin
Cruse, Karen

Soares, Sheila

Joanne Miholtz

road blocked

west property corner

Altura

160



Google Earth

© 2020 Google

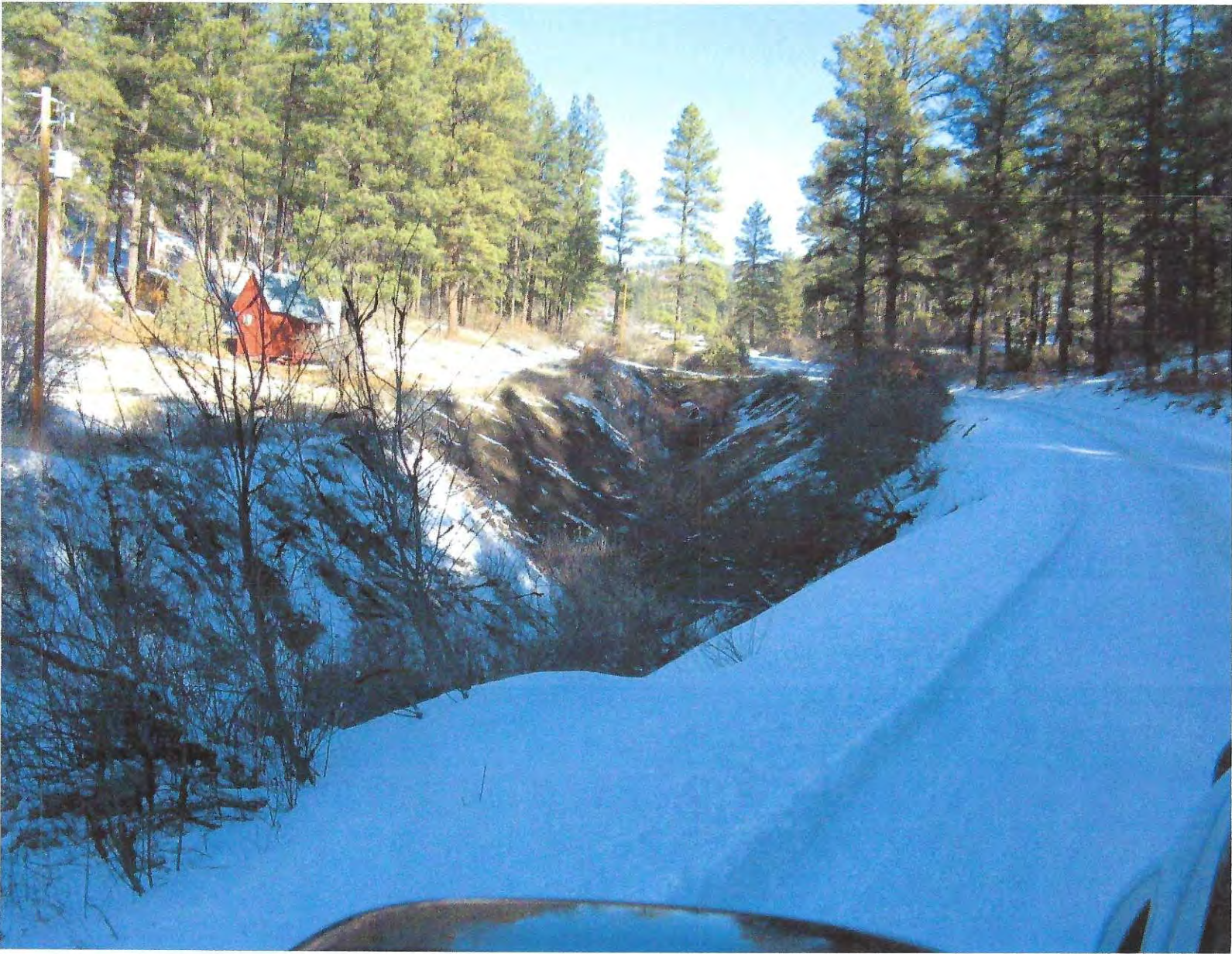
2 mi

A photograph of a small, single-story building with a green gabled roof and light-colored concrete walls. A sign on the front reads "BUTTERCUP WATER DEPOT" and "OPEN TO PUBLIC". The building has a small window with green shutters on the left, a blue electrical box, and a white pipe with a red valve on the right. The ground is gravel, and there are yellow bollards near the pipe. A large tree is behind the building, and hills are in the background under a cloudy sky.

**BUTTERCUP
WATER DEPOT**
OPEN TO PUBLIC







Untitled Map
Hwy 160 heading east to PAUSD Wtr Station
Write a description for your map.

Legend



Google Earth

© 2020 Google
© 2021 Google



7.74 ft

Intersection to turn to
Untitled Map PAUSD
water station. Hwy
Write a description for your map.
160 is 65 mph.

Legend



Google Earth

© 2020 Google
© 2021 Google

7.22 ft

Pagosa Springs SUN NEWSPAPER
JANUARY 7, 2021

day, our state's transportation

See McCabe A8

Outdoors	A13
Southwest Land Alliance merges with Colorado Open Lands	
Public Notices	A13
PREVIEW	
SUDOKU	12
Calendar	16
Word Search	17
Crossword	20
Classifieds	24

PagosaSUN.com



Aspen Springs well collapses, district seeks solution

By Simone Mounsamy
Staff Writer

The well at Aspen Springs' Buttercup Water Depot collapsed around Thanksgiving.

Aspen Springs Metropolitan District (ASMD) Budget Officer Kelly Evans said, "It's an artesian well; it should have been well-sealed, the report says it was well-sealed, but it started leaking in the spring ... it just kept getting worse, and then it failed completely.

"Basically we have a catastrophic failure. We've got water, but no well," she concluded.

ASMD Public Works Officer Pam Wallis described the situation for those who now drive to the Trails water station, owned by the Pagosa Area Water and Sanitation District (PAWSD), to get their water.

"Picture this," she said, and then proceeded to describe someone who may live in Unit 6, have had hours cut at their retail or customer service job in town, hasn't maintained their car's brakes or tires, and goes driving 20 minutes down the mountain to U.S. 160 to then drive 10 more miles to Trails, likely loading some three times the weight capacity for their car into their

water tank, and driving back on icy roads.

"A lot of the individuals that live out here already are very conservative with their water. So, people are not bathing as often — 'Let's go every three days, let's go every week' — you know? They're not washing their counters as often, in the middle of the pandemic when they say 'wash your hands,' so it can be a health thing as well," Wallis said.

Since her husband and she have years of experience in the well industry, the ASMD

■ See Buttercup A8

Buttercup

■ Continued from front

looked to Wallis for a solution to the problem.

She relayed, "Someone from PAWSD the other day said, 'Just a thought, and I haven't run this by anyone yet, but what if we were able to run a pipeline from where it stops all the way to where the volunteer fire department is? ... I told him, if you were going to do that the better choice would be to pipe it right to our distribution system because it's already set up and it's a good lot. And he says, 'OK, that sounds like a deal.' And I says, 'If you were going to throw this at everybody on the board, and if it was a yes, what would your time frame be?' Two to three years.

"So do I post locally to all of our people here: 'We're going to have water, PAWSD is going to bring us water—we're going to have it in three years'? That just doesn't work."

Wallis explained that she is searching for a solution that would repair the situation much sooner than that. Since a drilling company attempted to do some repairs, but was unsuccessful, the quickest probable solution, according to Wallis, would involve drilling a new well.

"At this point, we have no choice but to put in another well," she said. "We'll keep the same distribution center, building, system, all that will stay because all we have to do is, from the other well, just pipe the water into the system.

"We will have to go through all the testing to make sure the quality of the water is pretty much the same quality as the first well, and it should, we're going to move about 90 feet away from it. The whole issue is funding."

She added, "As it is right now, we are searching out grants, and trying to get some funding. I've called just about every department I can."

Wallis continued, "We won't have an answer until February from one department and May from another department, so this means we are completely down until then, which we're trying to avoid, obviously.

"One of the issues is we don't



Photo courtesy Pam Wallis

The Buttercup Water Depot sits above the aquifer with water, but with no working well to access it.

mind taking the money out of our reserves and moving forward with the project, but most of these agencies will not reimburse ... And so we have money in our reserves, but it'll deplete our reserves down close to where it'll dissolve the district."

"At the Southwest Water Conservation District, she said, 'Yes we could [reimburse]. That sounds promising, but we still wouldn't have an answer until February,' Wallis said.

Evans earlier stated, "We haven't had a mill levy increase in 25 years, so we're already in a bind."

Wallis went on, "If the district was to be dissolved a couple years down the road because of funding, I don't see the county getting out here and plowing sufficiently to get people by. We have some very treacherous roads out here."

Wallis remained hopeful grant funding would supply the quickest solution to getting a new well drilled.

She did not believe that moving the Trails water station would be an option.

"They would not take away from what they have there ... moving that

one and eliminating the station on Trails, no. Because other people need that one," she said.

According to PAWSD Manager Justin Ramsey, however, moving the Trails water station would be a favorable option.

At the PAWSD meeting held on Dec. 10, 2020, Ramsey said, "What I'd like to do is move the fill station that is at Trails Boulevard out to the Happy Camper ... The real benefit is it moves it out just past Elk Park ... We have a 12-inch water main that goes out to Elk Park and feeds the homes out there ... the water goes stagnant and we probably discharge several hundred thousand gallons a month to keep that water fresh."

He went on, "If we moved it, I think the people that fill it with water would keep that water flowing that way we wouldn't have to waste it."

Ramsey described that he's been in contact with the manager of the Happy Camper RV park and relayed the owner seems on board.

"As soon as I can get that figured out, we might get that fill station moved," Ramsey said.

McCabe

■ Continued from front

Washington must continue to build

VID relief package passed and

2021 SWCD Grant Program – Staff Application Review (Review Date: 1-11-21 Follow-up Date: 1-14-21)

Name of Project/Applicant: **Florida Consolidated Ditch Company – Florida Canal Diversion Rehabilitation Phase II**

<u>Total Project/Phase Cost</u>	<u>Amount of Request SWCD funds</u>	<u>Applicant Match (Cash / In-Kind)</u>	<u>Other Funding Sources</u>
\$1,200,000	\$25,000	\$600,000	
	(less than 50% of total)	(at least 25% of total)	

<u>Project Type</u>	<u>Limits (Annual Max/5 Year Max Since 2018)</u>	<u>SWCD Request</u>
Education	\$5,000 / \$10,000	
Water Supply/Restoration	\$75,000 / \$150,000	\$25,000/\$80,000
Public Forums/Workgroups	\$20,000 / \$40,000	
Emergency	No limit specified	

Statutory Purposes of SWCD (C.R.S. 37-47-101)

Conservation of San Juan & Dolores rivers for storage, irrigation, mining, or manufacturing Purposes; Construction of reservoirs, ditches and works of irrigation and reclamation of lands not yet irrigated, as well as supplemental supply; Promotion of the health and general welfare of State of Colorado; and Safeguarding of water to which Colorado is equitably entitled.

If educational, does the project/program complement SWCD's existing efforts? **N/A**

Pre-Compact Water Right	Yes <u>X</u>	No <u> </u>
--------------------------------	---------------------	-----------------------

<u>Application Information</u>	<u>Criteria Met:</u>
Date Received	X
Eligible Entity	X
Required Match	X
Less than 50% of Total Project Cost	X
Project Type, Description, Location	X
Anticipated Project Timeline	X – through 2023
Detailed Project Expense Budget	X
No Legal, Payroll, or Grant Admin Costs supported by SWCD	X
Identification of Project Beneficiaries & Partners	X
Summary of Previous SWCD Funding Requests and Awards	X
Not For a Project That Was Already Completed	X
Use of Funds in 2021	X -Yes for SWCD portion of project (final engineering design)
Has Secured Remaining Project Funding	X
Purposes of District	X
-Pre-Compact	X
-Compact Development & Entitlement	X
-Health & Welfare	X
-Irrigation & Storage	X

Staff Recommendation: Approve in the full amount, as this strong multi-benefit project supports a pre-compact water right. Should shareholders vote to assume the CWCB loan (and voting is currently underway), this project also has significant buy-in from its beneficiaries. Pete Foster will update the board on the outcome of the vote at the board meeting.

Applicant Grant History

Date	Name	Notes	Amount
2021	Florida Consolidated Ditch Co.	Florida Canal Diversion Rehab Phase II, Final Engineering Design (<i>Requested</i>)	<i>\$25,000</i>
2018	Florida Consolidated Ditch Co.	Florida Canal Diversion Rehab Phase I	\$55,000
			\$80,000

Director Notes/Questions:

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



THE SOUTHWESTERN WATER CONSERVATION DISTRICT

Developing and Conserving the Waters of the
SAN JUAN AND DOLORES RIVERS AND THEIR TRIBUTARIES
IN SOUTHWESTERN COLORADO

GENERAL APPLICATION FOR FINANCIAL ASSISTANCE

SWCD SUBMITTAL CHECKLIST	
Required, Please Initial	
✓	I acknowledge I have read and understand the 2021 SWCD Grant Program Guidelines .
✓	The financial request to SWCD does not exceed 50% of the total project cost.
✓	The applying organization is funding at least 25% of the total project cost.
✓	The request is for funds to be used in 2021, for a project to be completed in 2023. *Note: SWCD grant funds are helping to fund the Engineering Design task of the Project with an anticipated task completion in 2021. Substantial completion of the Project is expected in 2023.
✓	I understand that SWCD does not fund payroll, legal, or grant administration costs.
✓	I have included a <u>detailed</u> project expense budget.
✓	I have included a <u>detailed</u> project funding budget.
	I have consulted with SWCD staff to ensure all minimum criteria has been met.
Optional	
	Feasibility and/or Engineering Studies
✓	Maps
	Photos
✓	Letters of Support

WATER ACTIVITY SUMMARY			
Date of Submittal	November 10, 2020		
Type of Request	✓ Grant	Loan	Grant/Loan Package
Project Name	Florida Canal Diversion Structure Rehabilitation Project Phase 2		
Applicant	Florida Consolidated Ditch Company		
Project Location (River Basin)	Florida River northeast of Durango, CO		
Amount of Request	\$25,000		
Total Project Cost	\$1,200,000		
Applicant Match	\$600,000		
Year for Use of Funds	2021 *Note: SWCD grant funds are helping to fund the Final Engineering Design task of the Project with an anticipated task completion date of June 2021. Substantial completion of the Project is expected in 2023.		

WATER ACTIVITY CATEGORY

X	Limit	Category
X	\$75,000	Water Supply/Watershed Restoration: Water supply or watershed restoration projects, including design, engineering, and construction
	\$20,000	Public Forums/Studies: Public forums, work groups, studies, planning efforts
	\$5,000	Education: Teaching seminars, workshops, and related programs
	N/A	Emergency: Situations arising from catastrophic or unforeseen events
Note: The amount of funding each applicant may receive is further limited by the funding received in any given five-year period, as well as the total amount allocated to each category by the board. Review the guidelines carefully and consult staff if needed (970-247-1302).		

APPLICANT INFORMATION	
Name of Authorized Entity	Florida Consolidated Ditch Company
Type of Qualified Entity (See Guidelines)	Mutual Ditch or Reservoir Company
Mailing Address	P.O. Box 2138 Durango, CO 81301
Federal ID Number	84-0204321
Contact Person	Justin Catalano
Position/Title	Manager
Phone Number	(970) 749-9800
Email	floridaditch@gmail.com

APPLICANT DESCRIPTION
Please provide a brief description of the applying entity. For ditch companies, please provide the number of shareholders, acres served, and annual assessment.
<p>The Florida Consolidated Ditch Company (FCDC) is composed of the Florida Farmers Ditch Company, the Florida Canal Company, the Florida Canal Enlargement Company, and the Florida Co-Operative Ditch Company. The FCDC is a mutual ditch company that provides water to 293 shareholders serving between 15,000 and 18,000 acres of irrigated Agriculture through the Florida Farmers Ditch, the Florida Canal, and the Florida Co-operative Ditch. Additionally, the FCDC provides water to Pastorius Reservoir, a State Wildlife Area.</p> <p>In total, the FCDC operates 86.5 miles of canals, ditches and laterals, and delivers approximately 43,250 acre-feet of water per year. There are 6,200 shares total. The current annual assessment is \$40.30 per share. The annual O&M assessment is currently \$70.00 per share.</p>

WATER ACTIVITY DESCRIPTION
Please provide a narrative description of the activity's physical location, as well as its purpose and benefits. Provide a description of the water supply source to be utilized or the water body affected by the project. If possible, include measureable results such as acres served, watersheds impact, types of crops, number of taps, length of ditch improvements, length of pipe installed, area of habitat improvements, or students impacted. Photos, maps, or other graphics can be inserted here or attached.
Please explain how the project assists SWCD in furthering its statutory mission to protect, conserve, use, and develop the water resources of southwestern Colorado, as well as safeguard all waters to which Colorado is entitled. Specifically, if you project enhances or preserves any pre-compact water rights, please describe the quantities, appropriation dates, and adjudication dates of those rights. For help acquiring water rights information, call DWR (970-247-1845).

The Florida Canal Diversion Structure (Diversion Structure) located on the Florida River in La Plata County, CO approximately 9 miles downstream from Lemon Reservoir and 6.5 miles northeast of the City of Durango (**see Figure 1**). The existing Diversion Structure is an approximately eight-foot tall vertical check structure constructed during the turn of the century and acts as a fish barrier during all flows and a dangerous low head dam during medium and high flows. The proposed rehabilitation design approach will help provide hydraulic stability and provide fishery passage allowing for aquatic connectivity through a reach of the Florida River that is currently disconnected.

Phase 2 of the Florida Canal Rehabilitation Project (the Project) includes the final engineering design, environmental, services during bidding, construction, and engineering services during construction for repairs to the Florida Canal Diversion Structure (Diversion Structure). Phase 1 of the Project, consisting of preliminary design concepts and development of a CWCB loan feasibility study is complete, and the Florida Consolidated Ditch Company (FCDC) is ready to secure additional funding for Phase 2 construction of the Project.

The Diversion Structure delivers pre-Compact irrigation water rights to the Florida Canal headgate for irrigation of approximately 6,400 acres on the Florida Mesa. FCDC water rights are summarized in **Table 1**. The Florida Canal water rights total 80 cfs and are Pre-Compact water rights. The Florida Canal also delivers water to Pastorius Reservoir, an irrigation water storage and reregulating reservoir located within the FCDC service area. Pastorius Reservoir is a Colorado Parks and Wildlife (CPW) State Wildlife Area.

The current Diversion Structure is a low head dam that impedes upstream fish and aquatic organism passage. Phase 1 of the project explored conceptual design alternatives to incorporate multipurpose components into the rehabilitation of the Diversion Structure including:

- Provide a more reliable Diversion Structure to protect pre-compact water rights decreed for irrigation.
- Reduce drowning hazard potential and increase river safety.
- Provide a more reliable source of water for Pastorius Reservoir, a CPW State Wildlife Area.
- Enhance the aquatic habitat in the natural stream corridor by promoting fish passage and aquatic connectivity.
- Reduce the amount of sediment and debris entering the canal to reduce operations and maintenance costs and disturbances to the river from these activities.

The Florida Canal Diversion Structure Rehabilitation Project (Project) is in line with the goals and findings in the Basin Implementation Plan, State Water Supply Initiative, and the Colorado Water Plan:

- The Project is a specific and unique multi-purpose project (new IPP) that will address multiple consumptive and non-consumptive needs on the Florida Mesa and within the Florida River watershed. The Project will protect pre-Compact water rights entitlement by rehabilitating the Diversion Structure allowing for reliable delivery of pre-Compact water rights through the Florida Canal.
- The Project will promote sustainability and watershed health through improving aging infrastructure that maintains open space and provides recreational opportunities throughout La Plata County. More specifically, the Project increase the reliability of water supply to Pastorius Reservoir, which is an important State Wildlife Area with recreational opportunities including fishing, non-motorized boating, hunting, hiking, and wildlife viewing. Rehabilitation of the Diversion Structure firms up agricultural irrigation supply and promotes agricultural viability and productivity, as well as providing increased drought resistance for the Florida Mesa during dry years.
- Non-consumptive environmental and recreational needs will be addressed through restoration of the Diversion Structure. The Project will replace the existing low head dam with a structure that is safer for river users. The Florida River is an important fishery in the Southwest Basin as

the CWCB holds two ISF water rights that extend from below Lemon Dam downstream to the Confluence with the Animas River. The reach where the Project is located is identified as special value waters in SWSI because of the CWCB ISF water rights. The Project will provide connectivity for a reach of The Florida River that is approximately 11.5 miles by providing a fish passage as part of the project design and implementation. Pastorius Reservoir is a State Wildlife Area that relies on water delivered from the Florida River, and is an important state recreation area.

- Multiple entities and stakeholders were involved during Phase 1 to collaborate efforts and provide technical support. These stakeholders will continue with their involvement including The Nature Conservancy, Trout Unlimited, Colorado Parks and Wildlife, the Florida Water Conservancy District, and the Florida Consolidated Ditch Company (FCDC). Letters of support for the Project are provided in **Attachment A**.
- The FCDC is planning on taking out a CWCB loan to fund the project. The Project will promote cost effectiveness by providing viable financing mechanisms, including private, local, and state funding and financing. In addition, flow enhancement alternatives and concepts were evaluated to potentially augment the ISF water rights and assist in financing the project as part of Phase 1.

WATER PROJECT TIMELINE

Please provide a narrative description of the timeline for the project's major tasks and/or a detailed outline.

Table 2 provides an anticipated timeline for the project. Please note that SWCD grant funds are helping to fund the final engineering design task of the project with an anticipated completion data of June 2021.

ENGINEERING AND LEGAL FEASIBILITY

Will the Project require the acquisition of an additional water right or change of existing water rights? If yes, please explain.

No

Will the Project require state or federal regulatory permits of any type? If yes, please explain.

Clean Water Act Section 404 Permit: The Florida Canal is an agricultural irrigation water delivery conveyance system located in the Florida River basin in southwest Colorado and provides water for use including, but not limited to, commercial agricultural products including stock, alfalfa hay, grass hay, and pasture grass. The Project is required to continue the Florida Canal's ability to divert water from the Florida River, including Florida Project water released from Lemon Reservoir. However, the Florida Canal is not considered a Florida Project Facility by the United States Bureau of Reclamation (USBR) and federal funding was not available under the United States Bureau of Reclamation MOA program.

The Project consists of rebuilding the existing structure to meet the intent of the originally constructed diversion structure. Because the Project consists of maintaining/replacing an existing serviceable structure that is used for normal farming, it appears to be **exempt** from Clean Water Act Section 404 regulatory requirements under Section 404(f).

Floodplain Development Permit: Wright Water Engineers, Inc. (WWE), the FCDC's Consultant, reviewed the Preferred Alternative with the La Plata County Floodplain Administrator. The Project is located within a FEMA Zone AE with base flood elevations. In the event the Project generates no rise to the Hydraulic Engineering Center River Analysis System (HEC-RAS) modeled base flood elevations, the FCDC can apply for a repair permit from La Plata County.

In the event the project generates a rise to HEC-RAS modeled base flood elevations, the FCDC can apply for a repair permit under the condition that adjacent permanent structures are not affected by the Project.

Based on the HEC-RAS modeling conducted by WWE, the Preferred Alternative generates a rise in base flood elevations immediately downstream of the structure. However, there are no existing structures between the upstream and downstream extents of the Project limits, and WWE does not foresee issues at this time obtaining a floodplain development permit from La Plata County.

Construction Dewatering Discharge Permit: To facilitate construction of the Preferred Alternative, the contractor can utilize the existing Florida Canal Headgate and Canal to temporarily divert water around the existing diversion structure to maintain a dewatered condition downstream for construction. The party responsible for creating a construction dewatering discharge plan and obtaining and complying with the CDPHE Construction Dewatering Discharge Permit is the selected Contractor for the Project. Construction is scheduled to occur during the non-irrigation season when flow in the Florida River is low.

Construction Stormwater Discharge Permit: The party responsible for creating a construction stormwater management plan and obtaining and complying with the CDPHE Construction Stormwater Discharge Permit is the selected Contractor for the Project.

Please list below and attach to this application any feasibility studies or investigations that have been completed or are now in progress for the proposed project.

- Florida Project Water Conservation and Management Plan
- Florida Canal Diversion Structure Rehabilitation Project – CWCB Loan Feasibility Study

WATER ACTIVITY BUDGET

Please provide any narrative description of the project expense and funding budget that is necessary. Please describe in-kind contributions, if any, and the anticipated decision date for those funding requests that have not already been approved.

Project Expenses

The Project loan feasibility study estimates the cost for the FCDC to repair and replace the existing diversion structure in-kind is \$700,000. The total cost of the loan feasibility study's preferred Project alternative, to meet the multipurpose goals of the Project, is \$1,200,000. It is estimated that the additional cost of rehabilitating the diversion structure to meet the multi-purpose goals of increased structure safety and instream habitat enhancement is approximately \$500,000 (see attached **Table 3**). Primary expenses associated with Phase 2 of the Project include:

- 1) **Engineering Design and Environmental Services:** Prepare Design Drawings, Contract Documents, Technical Specifications, and Reclamation Plan suitable to solicit bids from qualified general Contractors. Coordinate with local regulatory agencies regarding potential environmental needs assessments for the project including impacts to New Mexico Jumping Mouse and regulatory permitting requirements.
- 2) **Engineering Service During Bidding:** Engineering services during bidding including a pre-bid meeting, answering contractor questions, issuing potential addendums, and holding a public bid opening.
- 3) **Construction, Engineering Services During Construction, and Post-Construction Reclamation Monitoring:** Construction of the Diversion Structure Rehabilitation Project and geotechnical testing services. Engineering services during construction include regular onsite observation, coordination of weekly progress meetings, answering contractor requests for information, and reviewing Contractor Pay Applications. The FCDC and Engineer to monitor post construction condition of stream restoration and reclamation plan in coordination with

Landowner.

Project Funding

Funding for Phase 2 of the Project is anticipated from the Southwest Basin Roundtable (\$25,000 - see **Attachment A** for approval letter), the CWCB Statewide Account (\$250,000), the Southwestern Water Conservation District (\$25,000), the CWP Agricultural Projects Fund (\$125,000), the CWP Environmental and Recreational Project Fund (\$50,000), and the FCDC in the form of a CWCB Loan (\$600,000) (see **Table 3**). The Grantee is also requesting an additional \$125,000 in CWP grant funding to support a 50/50 grant/loan mix to fully fund the Project. The Grantee is currently working with CWCB staff to identify the appropriate CWP funding pool source for this request. Additional information of the status of each funding source is provided in **Table 3**.

MATCHING REQUIREMENTS

Applicants must demonstrate that they are actively contributing to the project for which they are requesting funding. Any grant approval will be contingent upon the recipient ultimately demonstrating that they have secured funding for the full project cost.

In addition, applicants must also demonstrate that they will provide, through a cash contribution and/or the performance of in-kind services, at least 25% of the total project costs. See the guidelines and speak to staff for further clarification. Attach additional information if necessary.

Contributing Entity	Amount and Form of Match (note cash or in-kind)
Florida Consolidated Ditch Company	\$600,000 (CWCB cash loan)
WSRF Basin Round Table	\$25,000
WSRF Statewide	\$250,000
CWP Agricultural Projects	\$125,000
CWP Environmental & Recreational Projects	\$50,000
Other CWP Funds (to be identified)	\$125,000
Total Applicant Match (At Least 25%)	\$ 600,000
Total Other Funding	\$ 575,000
SWCD Request (Up to 50% of Project Cost)	\$ 25,000
Total Project Cost	\$1,200,000

WATER PROJECT BUDGET

Please provide a detailed project budget. You can use the template below or provide a more detailed table in an attachment.

Note: Please describe any payroll or legal costs, as well as any costs for administering this and other grants. SWCD will not fund those portions of the project.

Task/Materials Description	Funded By (Applicant, SWCD, Other)	Amount
Engineering Design and Environmental Services	SWCD, Other	\$145,000
Engineering Services During Bidding	Other	\$12,000
Construction, Engineering Services During Construction, and Post-Construction	Applicant, Other	\$1,043,000

Reclamation Monitoring		
Total Project Cost		\$1,200,000
Grant Administration Costs as a Percentage of Total Project Cost		0% (In Kind Applicant Services)

PREVIOUS SWCD AWARDS AND REQUESTS

Please list all previous request and awards from SWCD by year, amount, and project title. Please ensure that your entity does not exceed the five year limits on awards outlined in the [guidelines](#).

2018, \$55,000: Florida Canal Diversion Structure Rehabilitation Project Phase 1.

APPLICANT LIABILITY OR INDEBTEDNESS

Please list any existing long-term liability (multi-year) or indebtedness that exceeds one thousand dollars. This might include bank loans, government agency loans, or bond issues. Please provide the lender name, address, remaining principal, annual payment, and maturity date. If any of these liabilities are currently in default or have been in default at any time in the past, please provide a detailed explanation. Attach a separate schedule as necessary.

Hess Lateral Irrigation Pipeline Loan (Anticipated begin in 2020)

Lender: CWCB

Remaining Principal (estimated): \$1,085,750

Annual FCDC Payment (estimated): \$2,000

Annual Participating Shareholder Payment (estimated): \$47,156

Maturity Date (estimated): 2050

FOR LOAN REQUESTS

Please identify all revenue sources for the applicant that would be available to repay SWCD should financial assistance be offered in the form of a loan.

The FCDC will assess the current water users served by the Florida Canal for participation in the Project. Water users served by the Project are expected to see an increase in assessment rates consistent with an annual inflation rate. Based on the Project loan feasibility study, the increase in assessment revenues are sufficient to cover the annual loan payment for the Preferred Project Alternative.

APPLICANT SIGNATURE

By signing below, I acknowledge I have read the SWCD Grant Program guidelines, I understand the program requirements, and I submit this application, which is complete and true to the best of my knowledge.

Should the grant funds be awarded, I commit to requesting funds when they are needed, and using them only for the specific purpose and amount indicated in my application. SWCD requires written documentation of all committed project funds prior to disbursement.

I understand that if the project is under budget, there is an expectation that grant funding will be returned to SWCD in the proportion the project was under budget.

I understand that if the intended use of grant funds changes, board approval will be necessary. I also understand that SWCD may require additional documentation regarding the use of the funds at its discretion.

I acknowledge SWCD's requirement for a final written report, including a description of work completed and a detailed accounting of the use of funds.

J Roger Cole
Signature

11-10-2020
Date

Printed Name J Roger Cole

Please sign and submit the completed application and any supplemental information via email to lauras@swwcd.org or mail it to SWCD 841 E. 2nd Ave., Durango, CO 81301.

Do not hesitate to contact staff with any questions as you develop your application:
Laura Spann, 970-247-1302, lauras@swwcd.org

Tables

Table 1
Florida Consolidated Ditch Company
WATER RIGHTS TABULATION

FLORIDA CANAL

WATER RIGHTS TRANSACTION INFORMATION

	ADMINISTRATIVE NUMBER	ADJUDICATION DATE	APPROPRIATION DATE	CASE NUMBER	DECREED RATE (CFS)	DECREED VOLUME (AF)	ADJUDICATION TYPE	STATUS	USES	COMMENT
Florida Canal (Class B shares)	14152.00000	11/8/1923	9/29/1888	CA1751	24		O	Absolute	IRR	
	15774.00000	11/8/1923	3/9/1893	CA1751	16		O	Absolute	IRR	
	22428.00000	11/8/1923	5/29/1911	CA1751		970	O	Absolute	IRR	Pastorius Reservoir
Florida Canal Enlargement (Class C shares)	20890.00000	11/8/1923	3/13/1907	B-1751	31		O, CA	Absolute	IRR	Alternate Point of Diversion Taken in the Florida Farmers Ditch
	20890.00000	11/8/1923	3/13/1907	CA1751	40		O	Absolute	IRR	
Total					80					

FLORIDA FARMERS DITCH

WATER RIGHTS TRANSACTION INFORMATION

	ADMINISTRATIVE NUMBER	ADJUDICATION DATE	APPROPRIATION DATE	CASE NUMBER	DECREED RATE (CFS)	DECREED VOLUME (AF)	ADJUDICATION TYPE	STATUS	USES	COMMENT
Florida Farmers Ditch (Class A shares)	12392.00000	11/8/1923	12/5/1883	CA1751	12.08		O	Absolute	IRR	
	13649.00000	11/8/1923	5/15/1887	CA1751	1.33		O	Absolute	IRR	
	14016.00000	11/8/1923	5/16/1888	CA1751	8.58		O	Absolute	IRR	
	14291.00000	11/8/1923	2/15/1889	CA1751	23		O	Absolute	IRR	
Florida Coop Ditch (Class D shares)	22228.00000	11/8/1923	11/10/1910	B-1751	4		O, CA	Absolute	IRR	
	22228.00000	11/8/1923	11/10/1910	CA1751	26		O	Absolute	IRR	
FWCD	35219.00000	3/21/1966	6/5/1946	B-1751	110		S	Absolute	IRR	Decreed to provide adjudicated water rights from FWCD
Florida Canal Enlargement	20890.00000	11/8/1923	3/13/1907	W0306	31		O	Absolute	IRR	Alternate Point of Diversion from Florida Canal Enlargement.
Total					216					

Source: Colorado Division of Water Resources

Notes:

Adjudication Codes: C - conditional, CA - conditional made absolute, O - original, S - supplemental, TT - transfer to

Use Codes: 0 - storage, 1 - irrigation, 2 - municipal, 3 - commercial, 4 - industrial, 5- recreation, 6 - fishery, 7 - fire, 8 - domestic, 9 - stock, A - augmentation, P - power generation, Q - other, W - wildlife.

Table 2
CWCB Loan Feasibility Study
Florida Consolidated Ditch Company
Updated Florida Canal Diversion Structure Rehabilitation Project Anticipated Implementation Schedule⁽¹⁾

Task	2020		2021				2022				2023		
	July-Sept	Oct - Dec	Jan-Mar	Apr-June	July-Sept	Oct -Dec	Jan-Mar	Apr-June	July-Sept	Oct -Dec	Jan-Mar	Apr-June	July-Sept
Feasibility Application Due	August 1st												
CWCB Board Approval	September 15th												
Shareholder Vote		November											
Final Engineering Design													
Contractor Bidding and Selection													
Project Construction													
Preparation of Record Drawings; Measurement of Post-Project Benefits and Preparation of Final Report													
Post Construction Reclamation and Performance Monitoring													

(1) Timeline is based on completion dates or time period from the Notice to Proceed and Purchase Order Issuance. This schedule may be adjusted based on grant award date, weather delays, or to accommodate obligations for

Table 3
Florida Consolidated Ditch Company
Florida Canal Diversion Structure Rehabilitation Phase 2 Funding Sources and Approach for Preferred Alternative

Description of Services	Engineering, Permitting, and Construction	CWCB					SWCD	Total Grant Funds	Matching Funds	Total Cash Funds	Total Project Cost
		Possible Other Funding Sources	WSRF		Colorado Water Plan				CWCB Loan/FCDC Cash ⁽⁶⁾		
		CWCB State Water Plan, Fish and Wildlife Resources Fund, and Colorado Watershed Restoration Program ⁽¹⁾	Statewide Account ⁽²⁾	Southwestern Basin Roundtable ⁽²⁾	CWP Agricultural Projects ⁽⁴⁾	CWP Environmental & Recreational Projects ⁽⁴⁾					
Phase 2 - Final Design, Environmental, Services During Bidding, Construction, Engineering Services During Construction	\$1,200,000	\$125,000	\$250,000	\$25,000	\$125,000	\$50,000	\$25,000	\$600,000	\$600,000	\$1,200,000	\$1,200,000
% of total =	100%	10%	21%	2%	10%	4%	2%	50%	50%	100%	100%

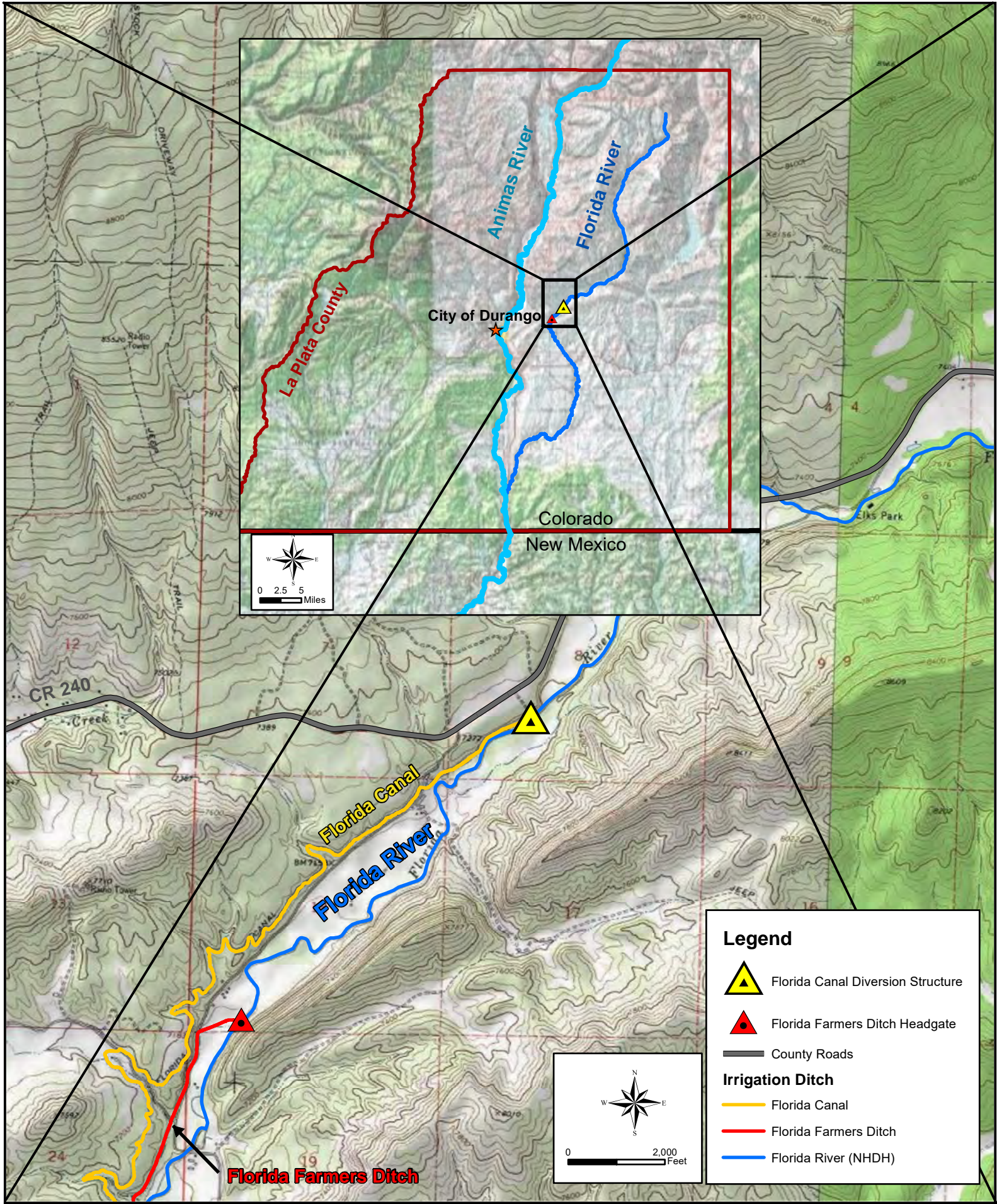
Notes:

- (1) Currently working with CWCB staff on identifying appropriate CWP funding pool.
(2) Southwestern Basin Roundtable approved funding for \$25,000 during July 23, 2020 meeting. Statewide Account request of \$250,000 recommended for approval at September, 2020 CWCB Board Meeting.
(3) Pending Application to SW Basin July of 2020.
(4) Approved by CWCB Board on condition of loan approval. Loan approved during September, 2020 Board Meeting.
(5) Pending application to Southwestern Water Conservation District November 2020.
(6) CWCB Loan approval granted during September, 2020 CWCB Board Meeting.

Estimated Total Project Cost of Alternatives Evaluated for Loan Feasibility Study

Loan Feasibility Study Alternatives	Total Project Cost
Newbury Riffle and Cross-Vane Structure (Preferred Alternative No. 4)	\$1,200,000
Repair and Replace in Kind (Alternative No. 2)	\$700,000
Difference	\$500,000

Figures



Document Path: P:\061-110\140 Florida Canal Diversion Dam\05 Mapping\FIorida Canal Diversion Structure - Location Map.mxd

Attachment A
Letters of Support



COLORADO

Parks and Wildlife

Department of Natural Resources

Area 15
151 E 16th Street
Durango, CO 81301
P 970-375-6770 | F 970-382-6672

July 7, 2020

Craig Godbout, Program Manager
Water Supply Reserve Fund
1313 Sherman St.
Room 718
Denver, CO 80203

Re: Florida Canal Diversion Structure Rehabilitation Project; Phase 2

Dear Craig,

Colorado Parks and Wildlife (CPW) would like to express our support for the subject project. The applicant, the Florida Consolidated Ditch Company, is diligently pursuing a rehabilitation project to modernize an aging, diversion structure (the Florida Canal) on the Florida River in La Plata County. The applicant's objective is to provide a multi-purpose project that not only satisfies the original purpose (to provide pre-compact irrigation water to its shareholders), but one that also restores stream connectivity and removes a significant recreational hazard on a natural stream.

The applicant has sought input from CPW throughout the design phase of the project. CPW has appreciated the opportunity to advocate for a design that will restore over 11 miles of connectivity for native fish, salmonids and the aquatic macroinvertebrates that occupy this reach but have long-been fragmented in the watershed due to the significant low-head dam and physical barrier of the current structure. This is a unique opportunity to rebuild an important, senior agricultural diversion structure while also meeting multiple objectives defined by the Southwest Basins Roundtable and the Colorado Water Plan.

The Florida Canal also delivers water to sustain a popular recreational fishery and waterfowl hunting at the Pastorius State Wildlife Area managed by CPW. CPW values the benefits that would accrue to the natural environment of the Florida River, the reliable irrigation and recreational water supply for the residents of La Plata County, the removal of a recreation hazard. We recommend the CWCB and the Southwest Basins Roundtable consider fully funding the proposed project for the important reasons stated.

Thank you for the opportunity to express our support for the project. If you have any questions about the affected fisheries or the benefits of the proposed project on the natural environment, please do not hesitate to contact me.



Sincerely,

A handwritten signature in black ink that reads "MR Thorpe #997". The signature is written in a cursive, flowing style.

Matt Thorpe
Area Wildlife Manager- Durango

cc: Cory Chick, SW Regional Manager; Mike Preston, Southwest Basins Roundtable Chair

SOUTHWEST BASINS ROUNDTABLE

July 24, 2020

Mr. Craig Godbout
Water Supply Planning Section
Colorado Water Conservation Board
1580 Logan Street, Suite 600
Denver, Colorado 80203

RE: Florida Consolidated Ditch Company
WSRF Grant Request

Dear Mr. Godbout,

The Southwest Basins Roundtable approved funding of \$25,000 from the Southwest Basins Roundtable account for the Florida Consolidated Ditch Company's Florida Canal Diversion Structure Rehabilitation Project, Phase 2. In addition, we are recommending that the Colorado Water Conservation Board approve their request for \$250,000 from the Statewide account. This application was considered fully and approved by the Southwest Basins Roundtable at the July 23, 2020 meeting. There was a quorum of members present at the meeting.

The replacement of the Florida Canal Diversion Structure is a critical project for this basin by replacing an aging diversion structure that has a history of failures resulting in an inability to divert flows. This project will protect pre-Compact water rights while providing improved fish passage and connectivity, enhance the natural corridor, and promote safety.

The proposed project falls under IPP 4-MB of the Southwest Basins Implementation Plan. It also meets a Measurable Goal or Outcome of the Southwest Basins BIP to Maintain Agricultural Water Needs, Meet Environmental Water Needs and Comply with Colorado River Compact and Manage Risk.

The completed Grant Application will be forwarded directly to you by the applicant. Please contact the applicant directly or me at 970-563-0320, etolen@laplawd.org, if you have questions or wish to discuss this application in more detail.

Sincerely,



Edward Tolen
Southwest Basins Roundtable Chair

C/O La Plata Archuleta Water District
PO Box 1377
Ignacio, Colorado 81137

Florida Water Conservancy District

1523 CR 243
Durango, Colorado 81301
970-247-5332

09 JULY 2020

Directors:

Philip Craig, President
Charles McCoy, Vice President
Terry Palmer, Secretary/Treasurer
Gary Zellitti
Walter Hill

Nancy Agro, Attorney

John Ey, Superintendent

Mike Preston
Southwest Basin Roundtable Chair
Dolores Water Conservancy District
P.O. Box 1150
60 S. Cactus
Cortez, CO 81321

Dear Mr. Preston,

The Florida Water Conservancy District is pleased to offer our support for the Florida Consolidated Ditch Company's Florida Canal Diversion Structure Rehabilitation Project Phase II. The Florida Canal Diversion structure is an important part of the Florida Consolidated Ditch Company's irrigation delivery system and improvements to this aging infrastructure will help preserve longstanding agricultural practices and delivery of pre-Compact water rights in Southwest Colorado.

We recommend the Southwest Basin Roundtable consider funding this important project.

Thank you for your time and consideration.

Sincerely,



John Ey
Superintendent



La Plata County
Colorado

Board of County Commissioners

Clyde Church, Chair • Gwen Lachelt, Vice Chair • Julie Westendorff, Commissioner

1101 East 2nd Ave
Durango, CO 81301
(970) 382-6219

July 28, 2020

Mr. Mike Preston
Southwest Basin Roundtable
841 East Second Ave.
Durango, CO 81301

Dear Mr. Preston:

The Board of County Commissioners is pleased to offer our support for the Florida Consolidated Ditch Company's *Florida Canal Diversion Structure Rehabilitation Project Phase II*. The Florida Consolidated Ditch Company has demonstrated strong leadership in crafting a multiple purpose project that includes important agricultural water use and safety considerations, as well as consideration for environmental and fishery uses on the Florida River.

La Plata County recognizes this project as an important opportunity to improve aging infrastructure that will preserve longstanding agricultural practices and protect pre-Compact water rights and open space in La Plata County. In addition, this project will improve connectivity on the Florida River to ensure habitat and recreational use at the Pastorius Reservoir State Wildlife Area and improve irrigation system deliveries.

We recommend the Southwest Basin Roundtable and the Southwest Water Conservation District consider funding this important project.

Thank you for your time and consideration.

Sincerely,

LA PLATA COUNTY
BOARD OF COUNTY COMMISSIONERS

Clyde Church
Chair

Gwen Lachelt
Vice Chair

Julie Westendorff
Commissioner



The Nature Conservancy in Colorado
1109 Oak Drive
Durango, CO 81301

tel (970) 375-0183

nature.org/colorado

July 8, 2020

Chairman Mike Preston
Southwest Basin Roundtable

Dear Mike:

On behalf of The Nature Conservancy, I am pleased to offer our support for the Florida Consolidated Ditch Company's *Florida Canal Diversion Structure Rehabilitation Project: Phase 2 Construction*. The Florida Consolidated Ditch Company has shown strong leadership in crafting a multiple purpose project that includes important agricultural water use, pre-Compact water rights protection, and safety considerations, as well as consideration for environmental and fishery uses (including fishery and recreational uses at the Pastorius Reservoir State Wildlife Area) on the Florida River. We are thrilled to participate in a project that meets so many goals and measurable outcomes of the Southwest Basin Roundtable's Basin Implementation Plan and Colorado's Water Plan. The Nature Conservancy is a committed partner on this project, and we strongly encourage the Southwest Basin Roundtable to fully support the project.

Thank you for your time and consideration.

Sincerely,

A handwritten signature in cursive script that reads "Celene Hawkins".

Celene Hawkins
Western Colorado Water Project Director

2021 SWCD Grant Program – Staff Application Review (Date: 1-11-21 Follow-up Date: 1-12-21)

Name of Project/Applicant: **Montezuma County Noxious Weed Department – Phreatophyte Project**

<u>Total Project/Phase Cost</u>	<u>Amount of Request SWCD funds</u>	<u>Applicant Match (Cash / In-Kind)</u>	<u>Other Funding Sources</u>
\$106,085.53	\$18,478.20	\$87,607.33	
	(less than 50% of total)	(at least 25% of total)	

<u>Project Type</u>	<u>Limits (Annual Max/5 Year Max Since 2018)</u>	<u>SWCD Request</u>
Education	\$5,000 / \$10,000	
Water Supply/Restoration	\$75,000 / \$150,000	\$18,478.20
Public Forums/Workgroups	\$20,000 / \$40,000	
Emergency	No limit specified	

Statutory Purposes of SWCD (C.R.S. 37-47-101)

Conservation of San Juan & Dolores rivers for storage, irrigation, mining, or manufacturing Purposes; Construction of reservoirs, ditches and works of irrigation and reclamation of lands not yet irrigated, as well as supplemental supply; Promotion of the health and general welfare of State of Colorado; and Safeguarding of water to which Colorado is equitably entitled.

If educational, does the project/program complement SWCD's existing efforts? **N/A**

Pre-Compact Water Right	Yes <u> </u>	No <u> X </u>
--------------------------------	-----------------	-----------------

<u>Application Information</u>	<u>Criteria Met:</u>
Date Received	X
Eligible Entity	X
Required Match	X
Less than 50% of Total Project Cost	X
Project Type, Description, Location	X
Anticipated Project Timeline	X
Detailed Project Expense Budget	X
Identification of Project Beneficiaries & Partners	X
Summary of Previous SWCD Funding Requests and Awards	X
Not For a Project That Was Already Completed	X
Use of Funds in 2021	X
Has Secured Remaining Project Funding	X – CWCB Water Plan Grant \$20,833.33
Purposes of District	X
-Pre-Compact	
-Compact Development & Entitlement	X
-Health & Welfare	
-Irrigation & Storage	X

Staff Recommendation: Approve in the reduced amount of \$15,000, conditioned upon commitment to include an appropriate revegetation program. SWCD Grant Program Guidelines state that weed management projects will not be funded, “although consideration will be given to programs that specifically remove phreatophytes if the applicant can demonstrate it has a plan to pay for and perform any necessary ongoing maintenance.” Montezuma County has provided

information regarding their plan for ongoing maintenance. I suggested that the applicant also further explain this plan at the board meeting. The reduction in recommended funding for this grant is due to the overall exceedance of grant requests in the Water Supply/Restoration category.

Applicant Grant History

Date	Name	Notes	Amount
2021	Montezuma County	Phreatophyte Project <i>(Requested)</i>	<i>\$18,478.20</i>
2019	Montezuma County	Russian Olive Waterway Management	\$7,100
			\$25,578.20

Director Notes/Questions:

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THE SOUTHWESTERN WATER CONSERVATION DISTRICT
Developing and Conserving the Waters of the
SAN JUAN AND DOLORES RIVERS AND THEIR TRIBUTARIES
IN SOUTHWESTERN COLORADO

GENERAL APPLICATION FOR FINANCIAL ASSISTANCE

SWCD SUBMITTAL CHECKLIST	
Required, Please Initial	
X	I acknowledge I have read and understand the 2021 SWCD Grant Program Guidelines .
X	The financial request to SWCD does not exceed 50% of the total project cost.
X	The applying organization is funding at least 25% of the total project cost.
X	The request is for funds to be used in 2021, for a project to be completed in 2021.
X	I understand that SWCD does not fund payroll, legal, or grant administration costs.
X	I have included a detailed project expense budget.
X	I have included a detailed project funding budget.
X	I have consulted with SWCD staff to ensure all minimum criteria has been met.
Optional	
	Feasibility and/or Engineering Studies
X	Maps
X	Photos
	Letters of Support

WATER ACTIVITY SUMMARY			
Date of Submittal	10-16-2020		
Type of Request	Grant X	Loan	Grant/Loan Package
Project Name	Montezuma County Phreatophyte Project		
Applicant	Montezuma County Noxious Weed Department		
Project Location (River Basin)	Montezuma County		
Amount of Request	\$18,478.20		
Total Project Cost	\$106,085.53		
Applicant Match	\$87,607.33		
Year for Use of Funds	2021		

WATER ACTIVITY CATEGORY		
X	Limit	Category
X	\$75,000	Water Supply/Watershed Restoration: Water supply or watershed restoration projects, including design, engineering, and construction
	\$20,000	Public Forums/Studies: Public forums, work groups, studies, planning efforts
	\$5,000	Education: Teaching seminars, workshops, and related programs
	N/A	Emergency: Situations arising from catastrophic or unforeseen events

Note: The amount of funding each applicant may receive is further limited by the funding received in any given five-year period, as well as the total amount allocated to each category by the board. Review the [guidelines](#) carefully and consult staff if needed (970-247-1302).

APPLICANT INFORMATION	
Name of Authorized Entity	Montezuma County
Type of Qualified Entity (See Guidelines)	County
Mailing Address	103 North Chestnut
Federal ID Number	84-6000786
Contact Person	Bonnie Loving
Position/Title	Noxious Weed Department Director
Phone Number	970-565-0580
Email	bloving@co.montezuma.co.us

APPLICANT DESCRIPTION
<p>Please provide a brief description of the applying entity. For ditch companies, please provide the number of shareholders, acres served, and annual assessment.</p> <p><i>The mission of Montezuma County Noxious Weed Program is to implement a coordinated undesirable plant program utilizing integrated management methods to ensure that all lands within Montezuma County are effectively managed to meet the intent of the Colorado Noxious Weed Act. Management methods include, but are not limited to: education, prevention, good land stewardship, biological, chemical, cultural, and mechanical.</i></p> <p>The Montezuma County Noxious Weed Department (MCNWD) acts as a coordinating entity to promote collaborative invasive species management among landowners and land managers. Noxious weeds know no boundaries and it is important for the MCNWD to coordinate projects in an effort to bring the community together to promote healthy ecosystems, and in this project reduce unnecessary water loss.</p>

WATER ACTIVITY DESCRIPTION
<p>Please provide a narrative description of the activity's physical location, as well as its purpose and benefits. Provide a description of the water supply source to be utilized or the water body affected by the project. If possible, include measureable results such as acres served, watersheds impact, types of crops, number of taps, length of ditch improvements, length of pipe installed, area of habitat improvements, or students impacted. Photos, maps, or other graphics can be inserted here or attached.</p> <p>Please explain how the project assists SWCD in furthering its statutory mission to protect, conserve, use, and develop the water resources of southwestern Colorado, as well as safeguard all waters to which Colorado is entitled. Specifically, if you project enhances or preserves any pre-compact water rights, please describe the quantities, appropriation dates, and adjudication dates of those rights. For help acquiring water rights information, call DWR (970-247-1845).</p> <p><u>Russian olive and Salt cedar assessment:</u></p> <p>MCNWD has mapped 6,996 acres of Russian olive and 6,775 acres of Salt cedar (Tamarisk) on wetland/waterways within Montezuma County (see Appendix A). Total infested acres of these two species comes to 9,371.9 (many areas mapped contain both species). Total miles infested on our major waterways and main canals comes to 221.51 miles (see appendix B for breakdown).</p> <p>Researchers studying water consumption by classes of riparian vegetation in the Middle Rio</p>

Grande Region of New Mexico estimated that one acre infested with Russian olives or Salt cedars would consume 4.5, 4.2, or 3.8-acre feet of water per year. Using our data from treated phreatophytes in 2019 we estimated one acre infested with these phreatophytes would consume about .8 acre feet of water per year. Density is definitely a factor in these water calculations, and it was not clearly defined in this article. We determined the more accurate way to determine evapotranspiration amounts would be to calculate per tree treated as our crew did in 2019.

Using our calculations from 2019 we estimate Montezuma County is losing about 7,377 acre-feet/year. This number does not take into account water loss occurring from flooding as a direct result of phreatophyte debris clogging ditches/waterways. Therefore, the total amount of water loss from these two phreatophyte species is estimated to be much higher.

Using the United States Drought Monitor map archive we can see that Montezuma County has been in the D4 Intensity category documenting exceptional drought in 2002 and 2018. We have been in the D3 Intensity category documenting extreme drought in 2003, 2012, and 2013. We have been in the D2 Intensity category documenting severe drought in 2014. We have been in the D1 Intensity category documenting moderate drought in 2004, 2006, 2007, and 2019. Lastly, the D0 Intensity category documenting abnormally dry was recorded in 2010, 2011, and 2017. In conclusion to this data we can see that since 2002 we have had 13 years of reported drought and only 5 years reporting no drought. The most recent U.S. drought monitor map puts us in the severe drought category, intensity D2.

In Montezuma County, water is a scarce resource. The heart of our county is in agriculture, if we continue to lose water, people will start losing their farms and way of life. It therefore is our duty to do whatever we can to conserve what little water we have.

Phreatophyte Project:

Montezuma County Noxious Weed Department (MCNWD) started the Phreatophyte Project in 2019. The purpose of this project is to remove phreatophyte populations, within Montezuma County, by offering an affordable / effective option to landowners. Currently the cost of hiring a licensed contractor to do phreatophyte removal for landowners is not feasible for the contractors and not affordable for the landowners. Therefore, MCNWD seeds out funding to support operations of a two-person crew to remove phreatophytes on private properties in the most efficient and effective manner possible.

The more funding we have the less the cost will be to the landowners, which is what we strive for. The landowners know how destructive these species are, they know it would benefit the land and entire community to remove them from their property, however a majority of our population in Montezuma County is struggling financially. MCNWD is not doing this project for any profit, all funding goes directly to expenses of the project.

As of 10-7-2020 the crew has removed 15,573 russian olives and 7,547 salt cedars. All tree sizes are documented by the crew in order for MCNWD to calculate an estimated water savings. From the treatment of these 23,120 trees we have calculated water savings of 192.5 acre feet since the project started May 1 of 2019.

A majority of the waterways we have been working on are/or are coming off of McElmo Creek, Crow Canyon, and Mancos River. We are not limiting treatments to certain waterways, but we do try to get as many properties as we can to sign up for the project in areas we are currently working in. Working in the same area will increase effectiveness of treatments and will decrease

travel time with increases efficiency.

We are anticipating working the crew for a 10-month season in 2021. Our goal of what we want to accomplish in this 10-month season is the removal of 20,000 individual trees, which will save about 160 acre-feet of water.

Project Implementation:

MCNWD intends on keeping a crew of two to four people, funding dependent, to continue working at a low cost to be an affordable option for private landowners to get their phreatophytes removed. As was done in 2019, we will continue to do cut stump treatments on all shrubs/trees with a root collar diameter (RCD) greater than one inch. This work will entail either using snippers or a chainsaw to cut the shrub/tree down, and within five minutes of cutting the stem, the crew will apply a mixture of herbicide to the stump with a paintbrush or with a backpack sprayer. Shrubs/trees smaller than 1" RCD were foliar sprayed with the same herbicides with a backpack sprayer. In 2019 Garlon, Rodeo, and Impel was used for the herbicide treatments. We since have changed over to Duracor and Element (same as Garlon) with our penetrant (Impel). The Rodeo injured grass when we were doing foliar applications so in an effort to minimize grass injury we switched to Duracor.

Areas that have high densities of phreatophytes with low root collar diameters the crew will utilize an excavator with a mulcher attachment head. One crewmember will operate the equipment, the other member, will follow treating the stumps with the herbicide, as well as documenting the number of trees treated within different root collar diameter ranges. Each day the crew will document treatments and take photo points.

All properties that have been treated in previous years will be monitored and treated for sprouts. MCNWD is also hoping to implement a program for helping landowners re-establish native/desirable trees in the treatment areas to help increase bank stabilization and increase habitat for local wildlife.

Long Term Budget:

The Board of County Commissioners agreed to fund the lease of the excavator for the five-year period if MCNWD is not able to find partner funding. However if MCNWD does find partner funding, MCNWD can use this money to replace older vehicles / equipment. One of MCNWD's spray trucks is a 1988 GMC with over 200,000 miles, it would be nice to upgrade that someday ☺.

As far as other financial parts of this project MCNWD will not be solely relying on SWCD to keep this project going. MCNWD is always actively seeking different partners/funding opportunities, and worst-case scenario the price to the landowners will increase if need be.

WATER PROJECT TIMELINE

Please provide a narrative description of the timeline for the project's major tasks and/or a detailed outline.

Depending on the weather the crew may continue to work through January. Once we have heavy snowfall the crew will be laid off until the snowpack is at a level the crew can safely resume working. The only months that really will be up in the air are January through March. Crew typically begins their season on April 1st and will go through at least December.

ENGINEERING AND LEGAL FEASIBILITY

Will the Project require the acquisition of an additional water right or change of existing water rights? If yes, please explain.

No

Will the Project require state or federal regulatory permits of any type? If yes, please explain.

No

Please list below and attach to this application any feasibility studies or investigations that have been completed or are now in progress for the proposed project.

<http://extensionpublications.unl.edu/assets/pdf/ec167.pdf>

WATER ACTIVITY BUDGET

Please provide any narrative description of the project expense and funding budget that is necessary. Please describe in-kind contributions, if any, and the anticipated decision date for those funding requests that have not already been approved.

MCNWD will initially fund the crew salary and benefits, excavator lease, herbicide, maintenance and repair of tools, fuel, PPE, etc... MCNWD has been granted a three-year funding from the Colorado Water Plan Grant, which will help reimburse some of the crew salary and benefits.

Since this project started in 2019 the Colorado Department of Agriculture has also helped cover some of the crew salary, equipment, and herbicides. We have also received funds from the Habitat Partnership Project with Parks and Wildlife.

We were awarded RCPP funds from NRCS in April of 2019. Funds would cover \$50,000 / year for crew salary and equipment for a five year project. However, on September 29 we were told this project needs to be converted to a different part of RCPP in order for it to work correctly, as

was stated in the application for this agreement. So we really aren't sure if we will be funded for a five year period or if we will continue to be on hold for another 170 days.

Since April, when we were awarded the agreement we have not been actively seeking other funding. We are no longer holding our breath for this funding and are moving forward with planning and other funding options to keep the project moving forward. This is a very important project for water conservation and land management, and we have a long list of landowners that are eagerly waiting for our crew to get to their property. Some of those properties are low income and were waiting on the RCPP statement of work in order for us to be able to do the project at little to no cost to them.

The crew uses Montezuma County's facilities, vehicles, tools, etc... The county also covers the Colorado Department of Agriculture's commercial applicator license fees, as well as insurance costs, mapping software and equipment, PPE, and other things the crew may need in order to be successful.

Another InKind cost is the use of a dump truck that belongs to a different department, that way we do not have to purchase, rent, or hire someone to haul our excavator to different properties. Their truck will save us at least \$25,000 this year.

Bonnie Loving is the director of MCNWD and she dedicates many hours a month promoting the project and coordinating with landowners. She is also in charge of all the finances/billing, mapping, and compiles our data for our water savings estimates.

We also just purchased a 25' flatbed trailer to haul the excavator on. Funds came through MCNWD and can be used as a cash match.

MATCHING REQUIREMENTS

Applicants must demonstrate that they are actively contributing to the project for which they are requesting funding. Any grant approval will be contingent upon the recipient ultimately demonstrating that they have secured funding for the full project cost.

In addition, applicants must also demonstrate that they will provide, through a cash contribution and/or the performance of in-kind services, at least 25% of the total project costs. See the guidelines and speak to staff for further clarification. Attach additional information if necessary.

Contributing Entity	Amount and Form of Match (note cash or in-kind)
Montezuma County In Kind	25,000
Montezuma County Cash	41,774
Colorado Water Plan	20,833.33

Total Applicant Match (At Least 25%)	\$66,774
Total Other Funding	\$20,833.33
SWCD Request (Up to 50% of Project Cost)	\$18,478.20
Total Project Cost	\$106,085.53

WATER PROJECT BUDGET

Please provide a detailed project budget. You can use the template below or provide a more detailed table in an attachment.

Note: Please describe any payroll or legal costs, as well as any costs for administering this and other grants. SWCD will not fund those portions of the project.

Task/Materials Description	Funded By (Applicant, SWCD, Other)	Amount
Salary	Colorado Water Plan	20,833.33
Salary	Montezuma County will front the cost but will apply for funds from the CDA to help reimburse	25000
Trailer	Montezuma County	10,964.00
Dump Truck	Montezuma County	25,000
Herbicide	Montezuma County/Landowners	2,000
Phone	Montezuma County/Landowners	710
Fuel	Montezuma County/Landowners	1350
PPE	Montezuma County	500
CDA License	Montezuma County	350
Ag Terra Mapping	Montezuma County	400
Spray Equip Repairs, Chainsaw Repairs	Montezuma County/Landowners	500
Excavator Lease	SWCD	18,478.20
Total Project Cost		\$106,085.53
Grant Administration Costs as a Percentage of Total Project Cost		%0

PREVIOUS SWCD AWARDS AND REQUESTS

Please list all previous request and awards from SWCD by year, amount, and project title. Please ensure that your entity does not exceed the five year limits on awards outlined in the [guidelines](#).

We were awarded \$7,100 on February 12, 2019 for the same project but at that time the name was 2019 Russian olive Waterway Management. We received the funds to pay for fuel, herbicide, chainsaw equipment, and some of the mapping software.

APPLICANT LIABILITY OR INDEBTEDNESS

Please list any existing long-term liability (multi-year) or indebtedness that exceeds one thousand dollars. This might include bank loans, government agency loans, or bond issues.

Please provide the lender name, address, remaining principal, annual payment, and maturity date. If any of these liabilities are currently in default or have been in default at any time in the past, please provide a detailed explanation. Attach a separate schedule as necessary.

N/A

FOR LOAN REQUESTS

Please identify all revenue sources for the applicant that would be available to repay SWCD should financial assistance be offered in the form of a loan.

N/A

APPLICANT SIGNATURE

By signing below, I acknowledge I have read the SWCD Grant Program guidelines, I understand the program requirements, and I submit this application, which is complete and true to the best of my knowledge.

Should the grant funds be awarded, I commit to requesting funds when they are needed, and using them only for the specific purpose and amount indicated in my application. SWCD requires written documentation of all committed project funds prior to disbursement.

I understand that if the project is under budget, there is an expectation that grant funding will be returned to SWCD in the proportion the project was under budget.

I understand that if the intended use of grant funds changes, board approval will be necessary. I also understand that SWCD may require additional documentation regarding the use of the funds at its discretion.

I acknowledge SWCD's requirement for a final written report, including a description of work completed and a detailed accounting of the use of funds.


Signature

10-13-2020
Date

Printed Name Bonnie Loving

Please sign and submit the completed application and any supplemental information via email to lauras@swwcd.org or mail it to SWCD 841 E. 2nd Ave., Durango, CO 81301.

Do not hesitate to contact staff with any questions as you develop your application:
Laura Spann, 970-247-1302, lauras@swwcd.org

Southwest Basin Grant

Montezuma County Phreatophyte Project

Materials and Supplies

Category*	Item	Matching or Other Funding	Who	Grant Reimbursement Request
Equipment	CAT Excavator lease		Southwest Basin	\$18,478.20
	Chainsaw maintenance and parts, PPE, fuel, herbicide, and other	\$4,350.00	Montezuma County	
Supplies	Phone, License, Mapping	\$1,460.00	Montezuma County	
Miscellaneous				
Equipment	25' flatbed trailer	\$10,964.00	Montezuma County	
Equipment	Dumptruck - InKind From Road Department	\$25,000.00	Montezuma County	
Misc.	Crew Salary and Benefits	\$25,000.00	Colorado Department of Ag	
Misc.	Crew Salary and Benefits	\$20,833.33	Colorado Water Plan	
	Total	\$87,607.33		\$18,478.20
	Percent	21.09%		

\$106,085.53

* Use these categories to complete the budget sheet. Only items in these categories will be considered.

Advertising

Educational Materials (Books, flyers, etc.)

Equipment (Dumpster, backhoe, etc.)

Misc.

Refreshments

Supplies (Seed, Herbicide, Tape, paper, etc.)

Tools (Shovel, gloves, etc.)

Staff and Volunteer Hours

[illegible]

1. PARTIES

LESSOR ("we", "us", or "our"):

CATERPILLAR FINANCIAL SERVICES CORPORATION
2120 West End Avenue
Nashville, TN 37203

LESSEE ("you" or "your"):

MONTEZUMA COUNTY, COLORADO
109 W MAIN RM 260
CORTEZ, CO 81321

In reliance on your selection of the equipment described below (each a "Unit"), we have agreed to acquire and lease the Units to you, subject to the terms of this Agreement. **Until this Agreement has been signed by our duly authorized representative, it will constitute an offer by you to enter into this Agreement with us on the terms stated herein.**

2. DESCRIPTION OF THE UNITS

DESCRIPTION OF UNITS Whether the Unit is new or used, the model number, the manufacturer, and the model name	SERIAL/VIN Unique ID number for this Unit	MONTHLY LEASE PAYMENT This is due per period, as stated below in section 3.	FINAL LEASE PAYMENT	DELIVERY DATE Enter date machine was delivered to you.
1 New 2020 Caterpillar 309-07CR Hydraulic Excavator	GG900560	\$1,539.85	\$35,680.00	

TERMS AND CONDITIONS

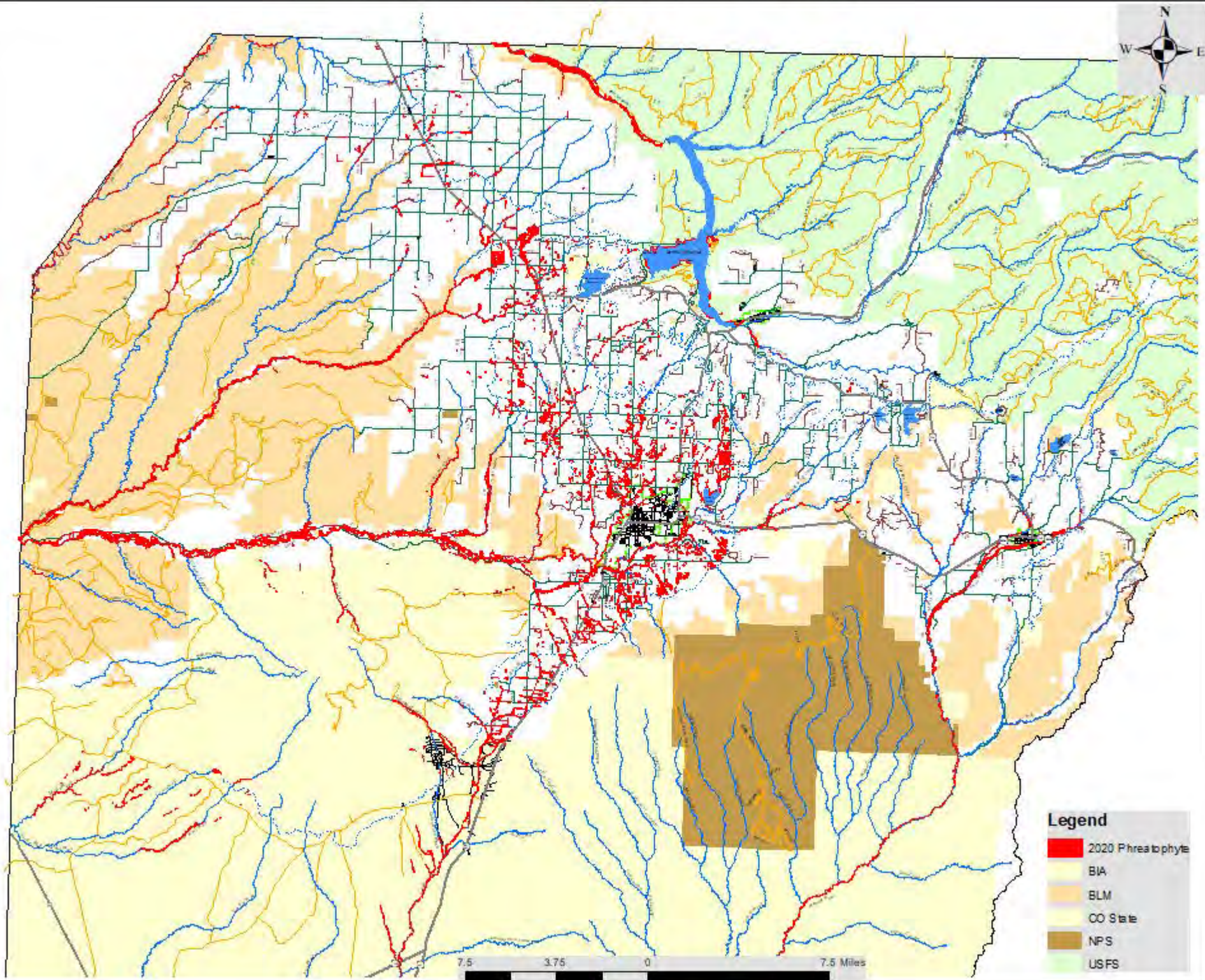
3. Lease Payments; Current Expense You will pay us the lease payments, including the final lease payment set forth above (collectively, the "Lease Payments"). Lease Payments will be paid by you to us as follows: a first payment of \$1,539.85 will be paid in arrears and the balance of the Lease Payments is payable in 59 successive monthly payments of which the first 58 payments are in the amount of \$1,539.85 each, and the last payment is in the amount of \$37,219.85 plus all other amounts then owing under this Lease, with the first Lease Payment due one month after the date that we sign this Lease and subsequent Lease Payments due on a like date of each month thereafter until paid in full.. A portion of each Lease Payment constitutes interest and the balance of each Lease Payment is payment of principal. The Lease Payments will be due without demand. You will pay the Lease Payments to us at CATERPILLAR FINANCIAL SERVICES CORP., P.O. BOX 100647, PASADENA, CA 91189-0647 or such other location that we designate in writing. Your obligations, including your obligation to pay the Lease Payments due in any fiscal year, will constitute a current expense of yours for such fiscal year and will not constitute an indebtedness of yours within the meaning of the constitution and laws of the State in which you are located (the "State"). Nothing in this Agreement will constitute a pledge by you of any taxes or other moneys, other than moneys lawfully appropriated from time to time for the payment of the "Payments" (as defined in the last sentence of this Section) owing under this Agreement. **You agree that, except as provided in Section 7, your duties and liabilities under this Agreement and any associated documents are absolute and unconditional. Your payment and performance obligations are not subject to cancelation, reduction, or setoff for any reason. You agree to settle all claims, defenses, setoffs, counterclaims and other disputes you may have with the Supplier, the manufacturer of the Unit, or any other third party directly with the Supplier, the manufacturer or the third party, as the case may be. You will not assert, allege or make any such claim, defense, setoff, counterclaim or other dispute against us or with respect to the payments due us under this**

Agreement. As used in this Agreement, "Payments" will mean the Lease Payments and any other amounts required to be paid by you.

The portion of the Lease Payments constituting principal will bear interest (computed on the basis of actual days elapsed in a 360 day year) at the rate of 2.95% per annum.

- 4. Late Charges** If we do not receive a Payment on the date it is due, you will pay to us, on demand, a late payment charge equal to the lesser of five percent (5%) of such Payment or the highest charge allowed by law.
- 5. Security Interest** To secure your obligations under this Agreement, you grant us a continuing first priority security interest in each Unit (including any Additional Collateral), including all attachments, accessories and optional features (whether or not installed on such Units) and all substitutions, replacements, additions, and accessions, and the proceeds of all the foregoing, including, but not limited to, proceeds in the form of chattel paper. You authorize the filing of such financing statements and will, at your expense, do any act and execute, acknowledge, deliver, file, register and record any document, which we deem desirable to protect our security interest in each Unit and our rights and benefits under this Agreement. You, at your expense, will protect and defend our security interest in the Units and will keep the Units free and clear of any and all claims, liens, encumbrances and legal processes however and whenever arising.
- 6. Disclaimer of Warranties** WE HAVE NOT MADE AND DO NOT MAKE ANY WARRANTY, REPRESENTATION OR COVENANT OF ANY KIND, EXPRESS OR IMPLIED, AS TO THE UNITS. AS TO US, YOUR LEASE AND PURCHASE OF THE UNITS WILL BE ON AN "AS IS" AND "WHERE IS" BASIS AND "WITH ALL FAULTS". **Nothing in this Agreement is intended to limit, waive, abridge or otherwise modify any rights, claims, or causes of action that you may have against any person or entity other than us.**

Montezuma County Phreatophyte Populations



PHREATOPHYTE PROJECT

BEFORE AND AFTER PHOTOS

















PHREATOPHYTE PROJECT – TO DATE

- 15,639 RUSSIAN OLIVES REMOVED
- 7,547 SALT CEDARS REMOVED
- 201.68 ACRES OF WATER CONSERVED

2021 SWCD Grant Program – Staff Application Review (Date: **1-11-21** Follow-up Date: **1-26-20**)

Name of Project/Applicant: **Town of Ophir – Werner Springs Infiltration System Replacement**

<u>Total Project/Phase Cost</u>	<u>Amount of Request SWCD funds</u>	<u>Applicant Match (Cash / In-Kind)</u>	<u>Other Funding Sources</u>
\$50,170	\$23,500	\$26,670	
	(less than 50% of total)	(at least 25% of total)	

<u>Project Type</u>	<u>Limits (Annual Max/5 Year Max Since 2018)</u>	<u>SWCD Request</u>
Education	\$5,000 / \$10,000	
Water Supply/Restoration	\$75,000 / \$150,000	\$23,500
Public Forums/Workgroups	\$20,000 / \$40,000	
Emergency	No limit specified	

Statutory Purposes of SWCD (C.R.S. 37-47-101)

Conservation of San Juan & Dolores rivers for storage, irrigation, mining, or manufacturing Purposes; Construction of reservoirs, ditches and works of irrigation and reclamation of lands not yet irrigated, as well as supplemental supply; Promotion of the health and general welfare of State of Colorado; and Safeguarding of water to which Colorado is equitably entitled.

If educational, does the project/program complement SWCD's existing efforts? **N/A**

Pre-Compact Water Right	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
--------------------------------	------------------------------	--

<u>Application Information</u>	<u>Criteria Met:</u>
Date Received	X
Eligible Entity	X
Required Match	X – at least 25% may seek support from other sources for 25%
Less than 50% of Total Project Cost	X
Project Type, Description, Location	X
Anticipated Project Timeline	X
Detailed Project Expense Budget	X
No Legal, Payroll, or Grant Admin Costs supported by SWCD	X
Identification of Project Beneficiaries & Partners	X
Summary of Previous SWCD Funding Requests and Awards	X – approved for 2019 but not utilized
Not For a Project That Was Already Completed	X
Use of Funds in 2021	X
Has Secured Remaining Project Funding	X
Purposes of District	X
-Pre-Compact	
-Compact Development & Entitlement	
-Health & Welfare	X
-Irrigation & Storage	

Staff Recommendation: Approve in full. Two years ago, this grant application was approved for up to \$51,000. Now the applicant has an engineering estimate, which has decreased the request substantially to \$23,500, and has documented the Town's matching commitment.

Applicant Grant History

Date	Name	Notes	Amount
2021	Town of Ophir	Werner Springs Infiltration Gallery <i>(Requested)</i>	<i>\$23,500</i>
2019	Town of Ophir	Werner Springs Infiltration Gallery (Approved, not disbursed)	up to \$51,000
			\$23,500

Director Notes/Questions:

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



THE SOUTHWESTERN WATER CONSERVATION DISTRICT

Developing and Conserving the Waters of the
SAN JUAN AND DOLORES RIVERS AND THEIR TRIBUTARIES
IN SOUTHWESTERN COLORADO

GENERAL APPLICATION FOR FINANCIAL ASSISTANCE

SWCD SUBMITTAL CHECKLIST	
Required, Please Initial	
KH	I acknowledge I have read and understand the 2021 SWCD Grant Program Guidelines .
KH	The financial request to SWCD does not exceed 50% of the total project cost.
KH	The applying organization is funding at least 25% of the total project cost.
KH	The request is for funds to be used in 2021, for a project to be completed in 2021.
KH	I understand that SWCD does not fund payroll, legal, or grant administration costs.
KH	I have included a <u>detailed</u> project expense budget.
KH	I have included a <u>detailed</u> project funding budget.
KH	I have consulted with SWCD staff to ensure all minimum criteria has been met.
Optional	
	Feasibility and/or Engineering Studies
KH	Maps
	Photos
	Letters of Support

WATER ACTIVITY SUMMARY			
Date of Submittal	12-11-20		
Type of Request	Grant <input checked="" type="checkbox"/>	Loan	Grant/Loan Package
Project Name	Werner Springs Infiltration System Replacement		
Applicant	Town of Ophir		
Project Location (River Basin)	San Miguel		
Amount of Request	\$23,500		
Total Project Cost	\$50,170		
Applicant Match	\$26,670		
Year for Use of Funds	2021		

WATER ACTIVITY CATEGORY		
X	Limit	Category
<input checked="" type="checkbox"/>	\$75,000	Water Supply/Watershed Restoration: Water supply or watershed restoration projects, including design, engineering, and construction
	\$20,000	Public Forums/Studies: Public forums, work groups, studies, planning efforts
	\$5,000	Education: Teaching seminars, workshops, and related programs
	N/A	Emergency: Situations arising from catastrophic or unforeseen events
<p>Note: The amount of funding each applicant may receive is further limited by the funding received in any given five-year period, as well as the total amount allocated to each category by the board. Review the guidelines carefully and consult staff if needed (970-247-1302).</p>		

APPLICANT INFORMATION	
Name of Authorized Entity	Town of Ophir
Type of Qualified Entity (See Guidelines)	Municipal Government
Mailing Address	PO Box 683, Ophir CO 81426
Federal ID Number	84-073624
Contact Person	Ken Haynes
Position/Title	Town Manager
Phone Number	970.728.4943
Email	manager@ophir.us

APPLICANT DESCRIPTION
Please provide a brief description of the applying entity. For ditch companies, please provide the number of shareholders, acres served, and annual assessment.
The Town of Ophir is a small community sitting at 10,000 feet in the East end of San Miguel County. Our population is approximately 185 people. Currently there are 75 houses with a capacity of about 150 houses for complete potential buildout within Town limits.

WATER ACTIVITY DESCRIPTION
Please provide a narrative description of the activity's physical location, as well as its purpose and benefits. Provide a description of the water supply source to be utilized or the water body affected by the project. If possible, include measureable results such as acres served, watersheds impact, types of crops, number of taps, length of ditch improvements, length of pipe installed, area of habitat improvements, or students impacted. Photos, maps, or other graphics can be inserted here or attached.
Please explain how the project assists SWCD in furthering its statutory mission to protect, conserve, use, and develop the water resources of southwestern Colorado, as well as safeguard all waters to which Colorado is entitled. Specifically, if you project enhances or preserves any pre-compact water rights, please describe the quantities, appropriation dates, and adjudication dates of those rights. For help acquiring water rights information, call DWR (970-247-1845).
Werner Springs is a ground source water supply just to the North of Ophir. It was one of the original sources for the Town and went through various ownership combinations until 2010 when Ophir acquired all known rights. The spring is a tributary to Howards Fork, a tributary to the San Miguel River and in the old Water District No. 60. The spring is in the unsurveyed Section 35, Township 42, North, Range 9.
The Town utilizes this as a shared supply and raw water uses. A decrease in the Town's primary water supply in Waterfall Canyon has a noticeable reduction of flow due to the continued drought conditions in our region. We foresee that Werner Spring is vital to the community as a shared supply and even possibly return to being the primary source for the Town of Ophir.
The current infiltration system has reached its lifecycle and needs to be replaced to become a reliable source for the Town of Ophir. The infiltration engineering will be similar to the existing system, with a commitment to products and designs for a longer lifecycle for the replacement.

WATER PROJECT TIMELINE

Please provide a narrative description of the timeline for the project's major tasks and/or a detailed outline.

Our current timeline is:

- Engineering Completed March 2021
- Project implementation in June or July 2021 and should take 3 weeks, this is dependent on mountain soils stabilities. We want to be sure that the soil is dry enough from winter melt to reduce impacts to the soils and vegetation.

ENGINEERING AND LEGAL FEASIBILITY

Will the Project require the acquisition of an additional water right or change of existing water rights? If yes, please explain.

NO

Will the Project require state or federal regulatory permits of any type? If yes, please explain.

No

Please list below and attach to this application any feasibility studies or investigations that have been completed or are now in progress for the proposed project.

NA

WATER ACTIVITY BUDGET

Please provide any narrative description of the project expense and funding budget that is necessary. Please describe in-kind contributions, if any, and the anticipated decision date for those funding requests that have not already been approved.

The expenses for the project are:

Item Details	Cost	Ophir	SWCD
Grant Administration / Payroll	\$ 950.00	\$ 950.00	
Legal Fees / Contract Attorney	\$ 720.00	\$ 720.00	
Engineering & Design	\$ 4,500.00	\$ 2,250.00	\$ 2,250.00
Third Party Inspection	\$ 1,000.00	\$ 500.00	\$ 500.00
Labor & Equipment Operation	\$ 28,750.00	\$ 14,375.00	\$ 14,375.00
Materials	\$ 12,750.00	\$ 6,375.00	\$ 6,375.00
Revegetation and Weed Mngt	\$ 1,500.00	\$ 1,500.00	
Total	\$ 50,170.00	\$ 26,670.00	\$ 23,500.00

Ophir has approved *Ordinance 2021-3, Allocating Funds to Match Southwest Water Conservation District Grant for Werner Spring Infiltration System Replacement* January 19, 2021 allocating \$25,670 of existing funds to fulfill the minimum matching funds for the project. The Town of Ophir may also procure other funding, with Ophir contributing a minimum of \$12,542.50 to fulfill the minimum required of 25% match.

MATCHING REQUIREMENTS

Applicants must demonstrate that they are actively contributing to the project for which they are requesting funding. Any grant approval will be contingent upon the recipient ultimately demonstrating that they have secured funding for the full project cost.

In addition, applicants must also demonstrate that they will provide, through a cash contribution and/or the performance of in-kind services, at least 25% of the total project costs. See the guidelines and speak to staff for further clarification. Attach additional information if necessary.

Contributing Entity	Amount and Form of Match (note cash or in-kind)
SWCD	\$23,500
Town of Ophir	\$26,670
Total Applicant Match (At Least 25%)	\$26,670
Total Other Funding	\$
SWCD Request (Up to 50% of Project Cost)	\$23,500
Total Project Cost	\$50,170

WATER PROJECT BUDGET

Please provide a detailed project budget. You can use the template below or provide a more detailed table in an attachment.

Note: Please describe any payroll or legal costs, as well as any costs for administering this and other grants. SWCD will not fund those portions of the project.

Task/Materials Description	Funded By (Applicant, SWCD, Other)	Amount
Total Project Cost		\$
Grant Administration Costs as a Percentage of Total Project Cost		%

PREVIOUS SWCD AWARDS AND REQUESTS

Please list all previous request and awards from SWCD by year, amount, and project title. Please ensure that your entity does not exceed the five-year limits on awards outlined in the [guidelines](#).

APPLICANT LIABILITY OR INDEBTEDNESS

Please list any existing long-term liability (multi-year) or indebtedness that exceeds one thousand dollars. This might include bank loans, government agency loans, or bond issues. Please provide the lender name, address, remaining principal, annual payment, and maturity date. If any of these liabilities are currently in default or have been in default at any time in the past, please provide a detailed explanation. Attach a separate schedule, as necessary.

	Balance	Annual	Mature
Colorado Water Resources and Power Development Resources Water Source Improvement & New Water Plant 4300 Cherry Creek Drive South Denver, CO 80246-8205	\$ 237,500.00	\$ 25,500.00	2029
Alpine Bank Broad Band Middle Mile Installation 120 South Pine Street Telluride, CO 81435	\$ 133,670.54	\$ 13,944.74	2029

APPLICANT SIGNATURE


By signing below, I acknowledge I have read the SWCD Grant Program guidelines, I understand the program requirements, and I submit this application, which is complete and true to the best of my knowledge.

Should the grant funds be awarded, I commit to requesting funds when they are needed, and using them only for the specific purpose and amount indicated in my application. SWCD requires written documentation of all committed project funds prior to disbursement.

I understand that if the project is under budget, there is an expectation that grant funding will be returned to SWCD in the proportion the project was under budget.

I understand that if the intended use of grant funds changes, board approval will be necessary. I also understand that SWCD may require additional documentation regarding the use of the funds at its discretion.

I acknowledge SWCD's requirement for a final written report, including a description of work completed and a detailed accounting of the use of funds.



Signature

12-10-20
Date

Printed Name Ken Haynes

TOWN OF OPHIR



ORDINANCE NO. 2021 - 3

AN ORDINANCE TO ALLOCATE FUNDS TO MATCH SOUTHWEST WATER CONSERVATION DISTRICT GRANT FOR WERNER SPRING INFILTRATION SYSTEM REPLACEMENT.

WHEREAS, the Town of Ophir, Colorado (Town), is a home-rule town and political subdivision of the State of Colorado, duly organized and operating under the Constitution and laws of the State and the Ophir Town Charter; and

WHEREAS, the Town is authorized under its general policy powers and C.R.S. Section 31-15-401 to adopt regulations in furtherance of the public health, safety and welfare of its animals, residents, visitors and the environment; and

WHEREAS, the Ophir water system needs a reliable secondary water supply, and the current secondary water supply has reached its' end of life cycle; and

WHEREAS, the Town of Ophir had received a grant from the Southwest Water Conservation District up to fifty percent match / maximum of \$51,000 and the Town required match of a minimum of twenty-five percent up to fifty percent; and

WHEREAS, Southwest Water Conservation District requested approval of funds by ordinance, detailed project costs, timeline of project and reapplication; and

WHEREAS, the Town of Ophir has reevaluated the project costs, \$50,170.00 (fifty-thousand one hundred-seventy dollars). Southwest Water Conservation District fifty percent match eligible matching funds would be up to \$23,500 and Town of Ophir responsibility would be up to \$26,670 as detailed in Exhibit A; and

WHEREAS, Section 10 of Article VI of the Ophir Home Rule charter requires transfer, appropriation and transfers of funds for contingencies to occur by ordinance; and

WHEREAS, the 2020 Ophir Enterprise Fund has not allocated funds for the upgrade.

NOW, THEREFOR, BE IT ORDAINED BY THE GENERAL ASSEMBLY OF THE TOWN OF OPHIR, AS FOLLOWS:

Section 1. Werner Spring Infiltration System Replacement. The foregoing recitals are adopted as findings of the Ophir General Assembly.

Section 2. Budget Transfer and Appropriation. The General Assembly hereby approves the transfer from the General Fund up to \$27,670.00 to the Capitol Improvement Fund and appropriates the transferred amount for the replacement of the Werner Spring Infiltration System.

Section 3. Effective Date; Continuing Effect; This Ordinance shall become effective immediately upon adoption to protect the public health, safety and welfare of Town of Ophir residents, guests and visitors. Ordinances or sections of ordinances that conflict with any section of this ordinance are repealed.

Section 6. Publication. After final adoption, a public notice shall be published which notice shall contain the number and title of this ordinance, a brief description of the ordinance, its' effective date and notice that copies are available for inspection at the Town Hall office.

Section 7. Severability. If any one or more sections or parts of this Ordinance is adjudged unenforceable or invalid by a court of competent jurisdiction, such judgment shall not affect, impair, or invalidate the remaining provisions of this Ordinance, the intention being that the various provisions herein are severable.

Introduced, Read and Approved on First Reading by the General Assembly of the Town of Ophir on the 15th day of December, 2020.

Approved and Adopted on Second and Final Reading by the General Assembly of the Town of Ophir on the 19th day of January, 2021.

By: 

Corinne Platt, Mayor

Attest: 

Sydney Roop, Town Clerk

Approved as to Form: Steve Johnson, Town Attorney

Ground Pounders, Inc.
PO Box 15
Placerville, CO 81430 US
gpexcavation@gmail.com



Estimate

ADDRESS

Town of Ophir
P.O. Box 683
Telluride, CO 81435
c/o Ken Haynes

ESTIMATE # 168

DATE 12/03/2020

PROJECT

Werner Springs Replacement

DESCRIPTION	QTY	RATE	AMOUNT
Demo old spring collection #1			
- Mini excavator	10	120.00	1,200.00
- Skidsteer	10	120.00	1,200.00
- Labor	20	50.00	1,000.00
- Supervisor	10	60.00	600.00
Install new spring box #1			
- Mini excavator	20	120.00	2,400.00
- Skidsteer	20	120.00	2,400.00
- Labor	40	50.00	2,000.00
- Supervisor	10	60.00	600.00
Parts and materials for spring box #1			
- 5 ton of road base			235.00
- 5 ton of sand			390.00
- 6 ton of 3/8" gravel			285.00
- 5 ton of bentonite clay			400.00
- 6 mil poly liner			100.00
- Mirifi			100.00
- 10' of perforated 4" pipe with screen			20.00
- 30' of solid 4" pipe			30.00
- 4" 45°			10.00
- 4" cap			5.00
- 4" tee			10.00
- 4" valve			250.00
- 1" 90° (2)			20.00
- 10' of 1"			10.00
- glue and primer			25.00
Demo old spring collection #2			
- Mini excavator	10	120.00	1,200.00
- Skidsteer	10	120.00	1,200.00

Thank you for your business!

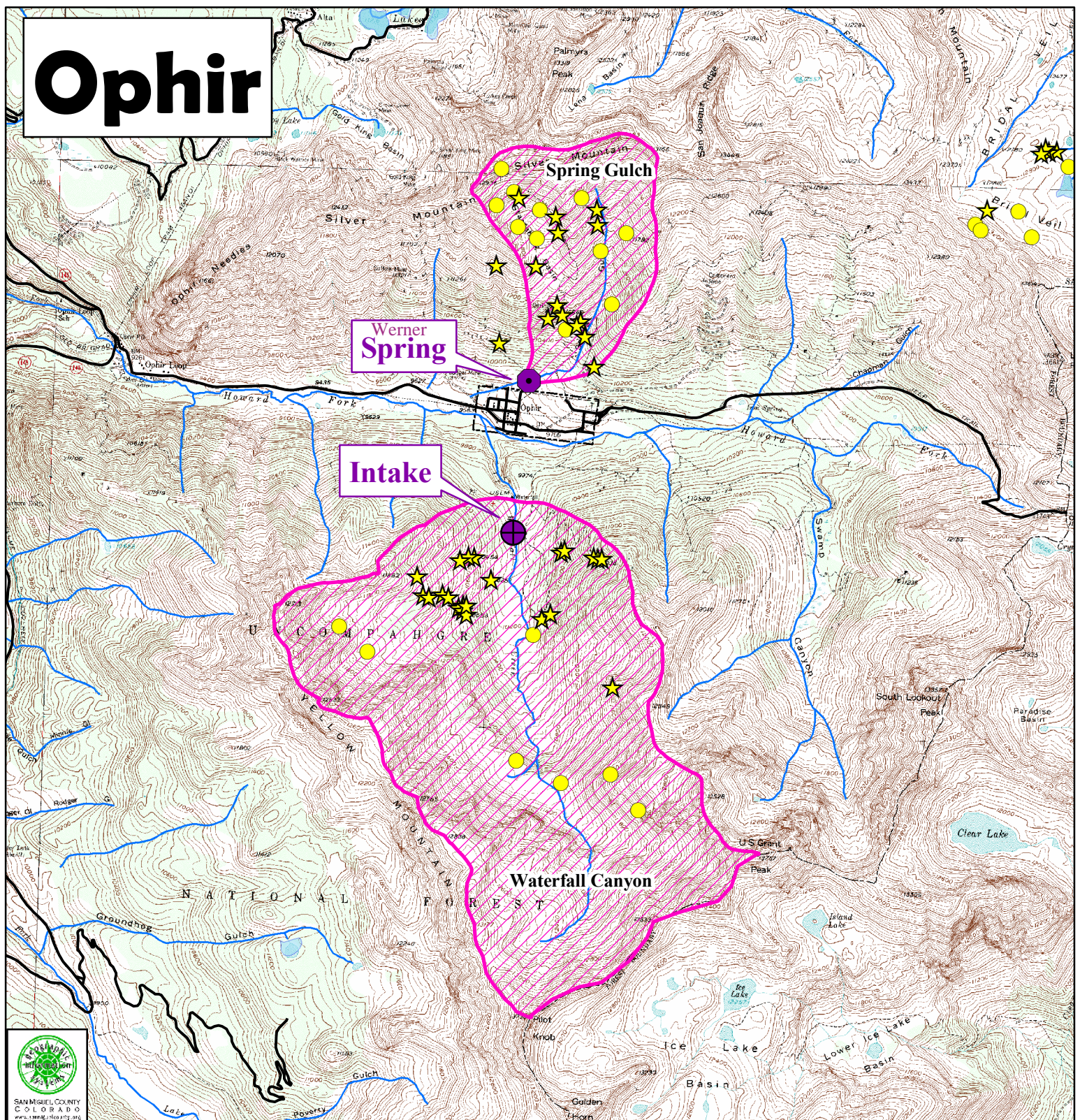
DESCRIPTION	QTY	RATE	AMOUNT
- Labor	20	50.00	1,000.00
- Supervisor	10	60.00	600.00
Install new spring box #2			
- Mini excavator	20	120.00	2,400.00
- Skidsteer	20	120.00	2,400.00
- Labor	40	50.00	2,000.00
- Supervisor	10	60.00	600.00
Parts and materials for spring box #2			
- 5 ton of road base			235.00
- 5 ton of sand			390.00
- 6 ton of 3/8" gravel			285.00
- 5 ton of bentonite clay			400.00
- 6 mil poly liner			100.00
- Mirifi			100.00
- 10' of perforated 4" pipe with screen			20.00
- 30' of solid 4" pipe			30.00
- 4" 45°			10.00
- 4" cap			5.00
- 4" tee			10.00
- 4" valve			250.00
- 1" 90° (2)			20.00
- 10' of 1"			10.00
- glue and primer			25.00
TOTAL			\$26,580.00

Accepted By

Accepted Date

Thank you for your business!

Ophir



Data Sources:

USGS, EPA - Region VIII, University of Colorado, San Miguel County, Southwest Data Center

This map was originally prepared by the Southwest Data Center in 1998. It was recreated by the San Miguel County GIS Dept in 2005.

[GISPROJECTS/NONCOUNTY/GOVT_AGENCIES/OPHIR/SWPA/20050607_OPHIR_SWPA.mxd]

SWPA Project Partners

San Miguel County, Colorado









Colorado Department of Public Health and Environment

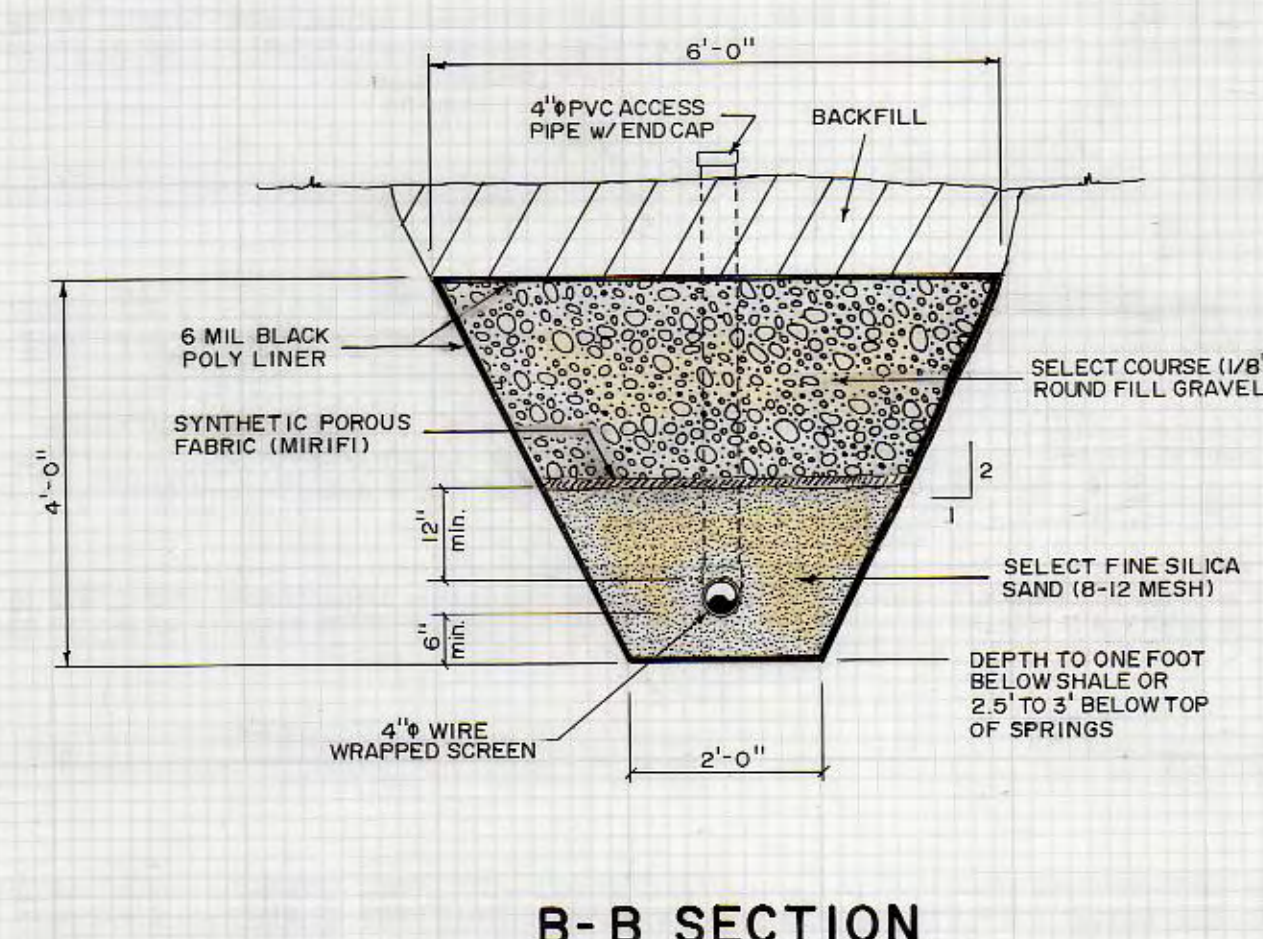
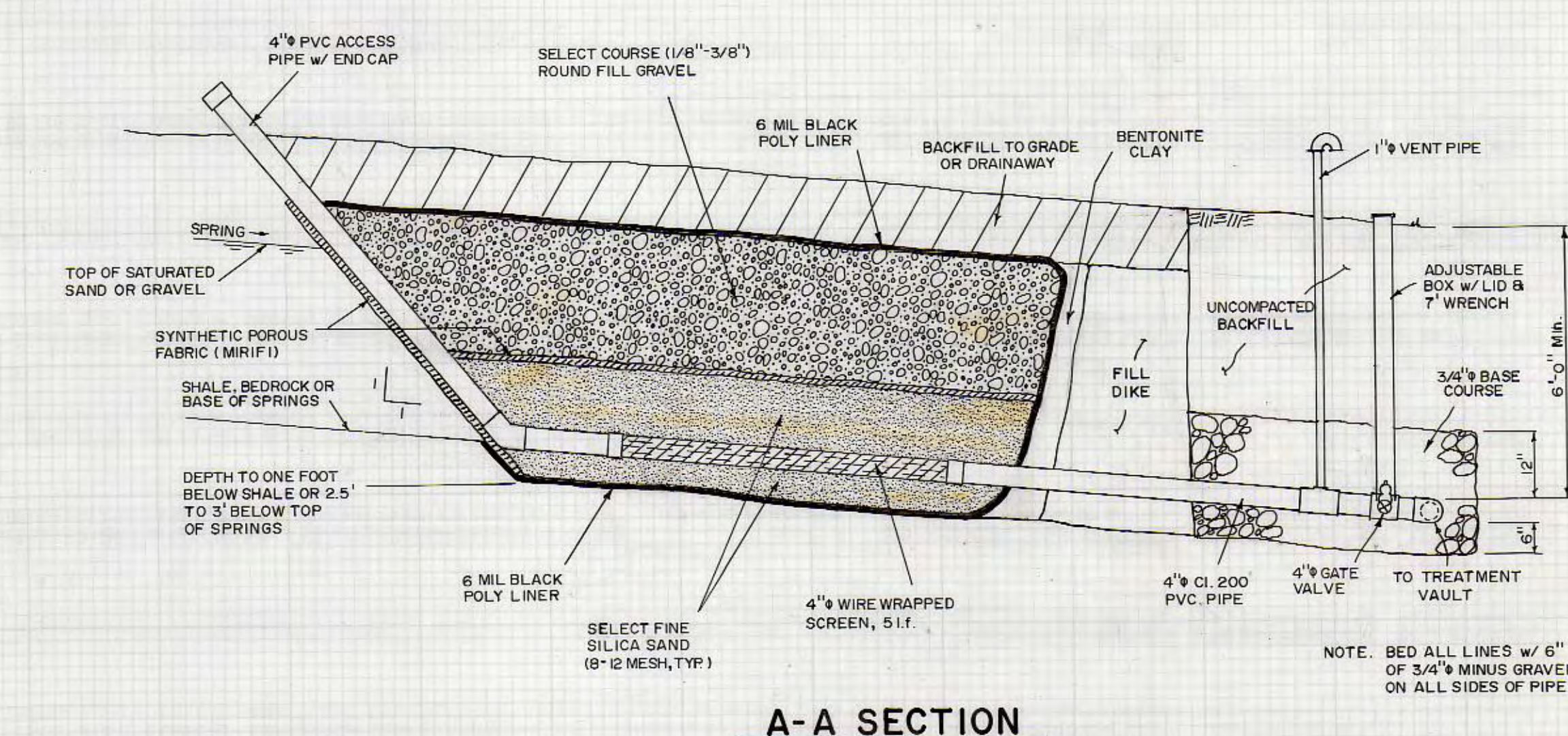
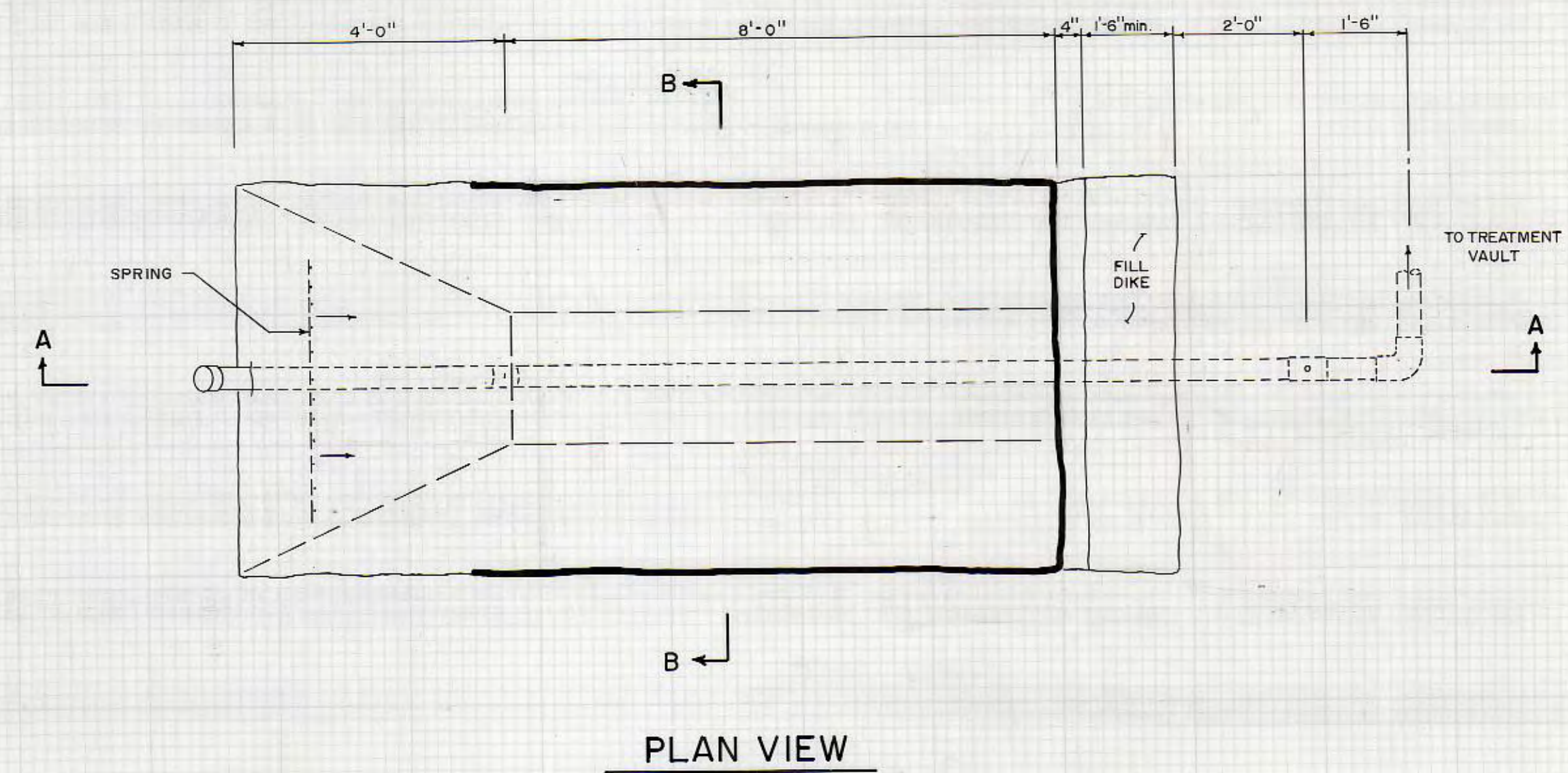
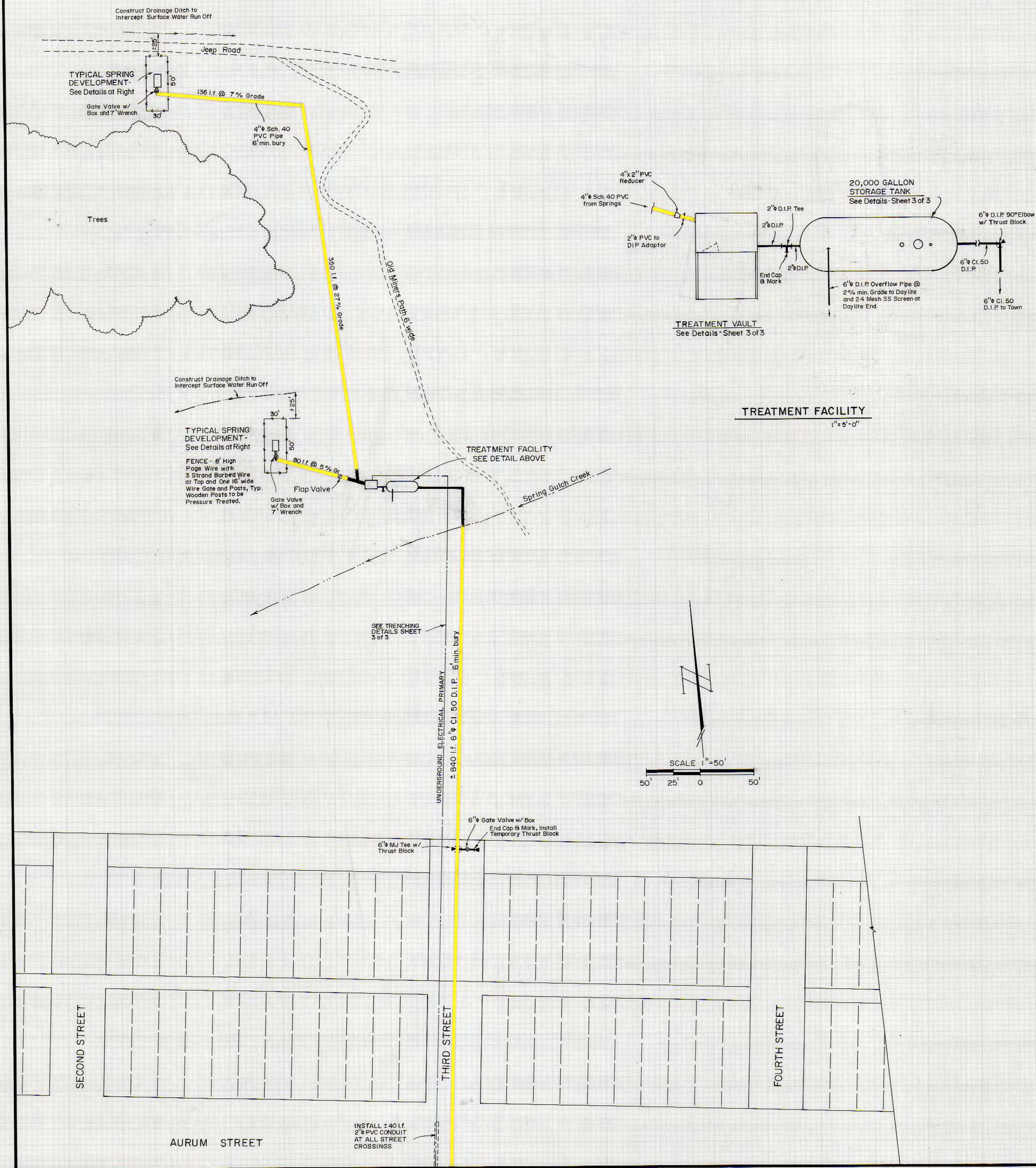
United States Environmental Protection Agency

Southwest Data Center

Source Water Protection Areas (SWPA)

Areas around public water supplies (surface or groundwater) over or through which contaminants can travel and affect the water supply.

-  Source Water Protection Area
-  Mine adit
-  Potential Contamination Source
-  Roads
-  Intake
-  Spring
-  Well
-  Major Streams



SPRING DEVELOPMENT DETAILS

BOOK _____	PAGE _____	TOWN OF OPHIR WATER SYSTEM
DATE 1-23-91		
DESIGNED _____		1991 IMPROVEMENTS
DRAWN _____		
CHECKED _____		
REVISD: 6-10-91		

2021 SWCD Grant Program – Staff Application Review (Date: **1-11-21** Follow-up Date: **1-13-21**)

Name of Project/Applicant: **Town of Silverton – Kendall Mountain Well Field Test Drilling Program**

<u>Total Project/Phase Cost</u>	<u>Amount of Request SWCD funds</u>	<u>Applicant Match (Cash / In-Kind)</u>	<u>Other Funding Sources</u>
\$55,405	\$11,752	\$13,851	
	(less than 50% of total)	(at least 25% of total)	

<u>Project Type</u>	<u>Limits (Annual Max/5 Year Max Since 2018)</u>	<u>SWCD Request</u>
Education	\$5,000 / \$10,000	
Water Supply/Restoration	\$75,000 / \$150,000	\$11,752/\$24,252
Public Forums/Workgroups	\$20,000 / \$40,000	
Emergency	No limit specified	

Statutory Purposes of SWCD (C.R.S. 37-47-101)

Conservation of San Juan & Dolores rivers for storage, irrigation, mining, or manufacturing Purposes; Construction of reservoirs, ditches and works of irrigation and reclamation of lands not yet irrigated, as well as supplemental supply; Promotion of the health and general welfare of State of Colorado; and Safeguarding of water to which Colorado is equitably entitled.

If educational, does the project/program complement SWCD's existing efforts? **N/A**

Pre-Compact Water Right	Yes <u> </u>	No <u>X</u>
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<u>Application Information</u>	<u>Criteria Met:</u>
Date Received	X
Eligible Entity	X
Required Match	X
Less than 50% of Total Project Cost	X
Project Type, Description, Location	X
Anticipated Project Timeline	X
Detailed Project Expense Budget	X
No Legal, Payroll, or Grant Admin Costs supported by SWCD	X
Identification of Project Beneficiaries & Partners	X
Summary of Previous SWCD Funding Requests and Awards	X
Not For a Project That Was Already Completed	X
Use of Funds in 2021	X
Has Secured Remaining Project Funding	X – WRSF \$2,100, Water Plan Grant \$27,702
Purposes of District	X
-Pre-Compact	
-Compact Development & Entitlement	
-Health & Welfare	X
-Irrigation & Storage	

Staff Recommendation: **Approve in full.**

Applicant Grant History

Date	Name	Notes	Amount
2021	Town of Silverton	Kendall Mtn Well Field Test Drilling Program <i>(Requested)</i>	<i>\$11,752</i>
2019	Town of Silverton	Water Security/Supply Engineering Study	\$12,500
2009	Town of Silverton	Molas Lake Dam Replacement	\$35,000
2006	Town of Silverton	Molas Lake Dam Replacement	\$50,000
			\$109,252

Director Notes/Questions:

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.



THE SOUTHWESTERN WATER CONSERVATION DISTRICT

Developing and Conserving the Waters of the
SAN JUAN AND DOLORES RIVERS AND THEIR TRIBUTARIES
IN SOUTHWESTERN COLORADO

GENERAL APPLICATION FOR FINANCIAL ASSISTANCE

SWCD SUBMITTAL CHECKLIST	
Required, Please Initial	
JS	I acknowledge I have read and understand the 2021 SWCD Grant Program Guidelines .
JS	The financial request to SWCD does not exceed 50% of the total project cost.
JS	The applying organization is funding at least 25% of the total project cost.
JS	The request is for funds to be used in 2021, for a project to be completed in 2021.
JS	I understand that SWCD does not fund payroll, legal, or grant administration costs.
JS	I have included a <u>detailed</u> project expense budget.
JS	I have included a <u>detailed</u> project funding budget.
JS	I have consulted with SWCD staff to ensure all minimum criteria has been met.
Optional	
JS	Feasibility and/or Engineering Studies
JS	Maps
	Photos
	Letters of Support

WATER ACTIVITY SUMMARY			
Date of Submittal	December 2020		
Type of Request	Grant XXX	Loan	Grant/Loan Package
Project Name	Kendall Mountain Well Field Test Drilling Program		
Applicant	Town of Silverton		
Project Location (River Basin)	Animas River		
Amount of Request	\$11,752		
Total Project Cost	\$55,405		
Applicant Match	\$13,851		
Year for Use of Funds	2021		

WATER ACTIVITY CATEGORY		
X	Limit	Category
X	\$75,000	Water Supply/Watershed Restoration: Water supply or watershed restoration projects, including design, engineering, and construction
	\$20,000	Public Forums/Studies: Public forums, work groups, studies, planning efforts
	\$5,000	Education: Teaching seminars, workshops, and related programs
	N/A	Emergency: Situations arising from catastrophic or unforeseen events
Note: The amount of funding each applicant may receive is further limited by the funding received in any given five-year period, as well as the total amount allocated to each category by the board. Review the guidelines carefully and consult staff if needed (970-247-1302).		

APPLICANT INFORMATION	
Name of Authorized Entity	Town of Silverton
Type of Qualified Entity (See Guidelines)	Municipal Water Provider
Mailing Address	1360 Greene Street
Federal ID Number	84-6000-78
Contact Person	John Sites
Position/Title	Town of Silverton Public Works Director
Phone Number	970-387-3522
Email	jsites@silverton.co.us

APPLICANT DESCRIPTION
<p>Please provide a brief description of the applying entity. For ditch companies, please provide the number of shareholders, acres served, and annual assessment.</p>
<p>The Town of Silverton is a statutory town that is the County seat of and the only incorporated municipality in San Juan County, Colorado. Silverton is a former silver mining camp, most or all of which is now included in a federally designated National Historic Landmark District, the Silverton Historic District. The Town population is 531 based up the latest census.</p> <p>Silverton provides potable water and wastewater services to residential and commercial customers within the Town limits. Silverton is a hub of recreational activities in the San Juan Mountains and is a portal for skiing, fishing, hiking, and camping and commercial services in the San Juan National Forest. Silverton is the destination of the Durango-Silverton Narrow Gauge Railroad and is the end finish for the annual Ironhorse Bike Classic bike race.</p>

WATER ACTIVITY DESCRIPTION
<p>Please provide a narrative description of the activity's physical location, as well as its purpose and benefits. Provide a description of the water supply source to be utilized or the water body affected by the project. If possible, include measureable results such as acres served, watersheds impact, types of crops, number of taps, length of ditch improvements, length of pipe installed, area of habitat improvements, or students impacted. Photos, maps, or other graphics can be inserted here or attached.</p>
<p>Please explain how the project assists SWCD in furthering its statutory mission to protect, conserve, use, and develop the water resources of southwestern Colorado, as well as safeguard all waters to which Colorado is entitled. Specifically, if your project enhances or preserves any pre-compact water rights, please describe the quantities, appropriation dates, and adjudication dates of those rights. For help acquiring water rights information, call DWR (970-247-1845).</p>

The Town of Silverton studied multiple water supply alternatives for a more reliable physical and legal future water supply. The study is contained in the report entitled Town of Silverton Water Security Report prepared by SGM in April 2020. Funding for this study was in part through a WSRA application and through the Southwest Conservation District Grant Program. A link to the report can be found here: [Town of Silverton Water Security Report](#)

The alternatives studied included new supply sources, raw water reservoirs, wells, improvements to existing supply infrastructure and legal water right strategies including augmentation storage. The need for a more reliable physical supply was prompted in part by multiple natural hazards the Town has recently experienced including droughts, fires, avalanches, changing monthly water cycles caused by climate variability and winter freezing challenges at intakes.

The Town's current supplies come from Bear and Boulder Creeks. The Boulder Creek supply infrastructure also includes the Galvin Creek supply. These supplies are high elevation "run of the river" supplies that are vulnerable to many natural hazards. The Town has no raw water storage for either supply. Both supplies are at risk from extended droughts, fires, mud and debris flows, snow avalanches, rock fall, changing climate, and wintertime freezing. The drought of 2018 resulted in much lower flows in both watersheds that redefined dry year statistics. A warming climate has changed the hydrological cycle and monthly hydrographs with earlier spring runoff and peaks, and lower flows late in the season.

The drought of 2018 and 2020 in part resulted in extreme wildfire events including the adjacent 416 Fire in the San Juan National Forest, and the Ice Lakes Fire in 2020. The aftermath of these fires can cause erosion, ash debris in water supply, mud and debris flows that can cause intakes to be choked with debris and vegetation, and significant water quality changes. Water quality changes include water chemistry, turbidity, pH, alkalinity, and organics. The water treatment processes are designed to remove particles with consistent anionic charge. Fire damage will change these charges and disrupt processes.

The above average heavy snowfall during the 2018-2019 winter caused avalanches in the Boulder Creek watershed. One avalanche completely covered and damaged the Boulder Creek Intake. The intake was buried in snow for months leaving the Town without access to the intake. Avalanche danger at both the Boulder and Bear Creek intakes prevents Town operators' access to the intakes during the avalanche season.

The Gold King mine spill which occurred in 2015 raised awareness of the vulnerability of high mountain tributaries in the Silverton watersheds to the legacy of mining activity and associated acid rock and mine drainage.

Finally, both supplies are vulnerable to legal calls during drought conditions from controlling senior water right holders on the lower Animas River.

New supply options were studied. Most new supply sources are impacted by historic mining water quality impacts from heavy metals and would require a new water treatment plant or replacement of the existing water treatment plant which would cost millions of dollars in capital costs coupled with higher annual operation and maintenance costs.

The Water Security Plan recommendations for new water supply included the exploration of an alluvial well supply as noted in the plan as follows.

“Silverton should undertake the planning and permitting to install a test well at the base of Kendall Mountain to determine water aquifer yield, water quality, and the geology to support a municipal quality well field. Of all the water supply options, we recommend this is the first priority as a new and redundant source of supply. If the well is not under the influence of surface water (GWUDI) and does not contain high metal concentrations, expensive surface water treatment processes will not be required. Well water can be disinfected at the site and pumped directly into the distribution system.”

This project would consist of drilling exploratory test wells for a new groundwater supply to supplement the current potable water supply of the Town. Two wells should be drilled near the Kendell Mountain Parcel which Silverton owns. The goal of the exploratory drilling would be to locate a well(s) that has sufficient yield of approximately 150 to 300 GPM. Water quality samples will be taken to determine water quality parameters and compliance with CDPHE GWUDI criteria. Wells drilled in the Kendell Mountain Alluvial Fan deposit and associated aquifer appears to be fed from a different tributary basin than existing wells. A supply with acceptable water quality would only require disinfection treatment with minimal capital cost. The exploratory well should be located a minimum distance of 200 feet from the Animas River and have screened intervals at depths greater than 50 feet below the ground surface to avoid classification by CDPHE as GWUDI.

The construction details consist of drilling two 5 inch PVC test wells, casing between 100 to 200 ft. deep. The wells would be pumped tested for a minimum of 24 hours and tested for inorganics, and general chemistry applicable to the “Colorado Minimum Drinking Water Standards”.

WATER PROJECT TIMELINE

Please provide a narrative description of the timeline for the project's major tasks and/or a detailed outline.

The timeline of this project is scheduled from June of 2021 to August of 2021. The Town will file for an Observation and Monitoring Well Permit from the Colorado SEO office.

A well drilling contractor will be engaged through a competitive bid process with a qualified low bidder identified in June. A start date for the drilling of the wells will be in June. Two 6 inch diameter wells will be drilled approximately 200 foot deep in the Kendall Mountain Alluvial Aquifer.

Both Wells will be test pumped with the remaining well used as an observation well to measure drawdown and recovery. A long-term pump test will be conducted on both wells. A plot of time/flow rate/drawdown will be taken from each well and used to determine aquifer characteristics and future production well capacity. This task will be conducted in June and July.

Water quality samples will be taken for Colorado Safe Drinking Water compliance and GWUDI characteristics. A report will be then prepared to determine if the aquifer will support a municipal quality well field. This report will be provided to the SWCD as a deliverable. This task will be finalized in July and August.

Once the characterization of the aquifer is conducted, next steps will be determined on the larger project of production wells, well house, disinfection and tie into the existing distribution system. Because of the risk of loss of one of the two Town supplies, the Town will pursue this next step with a sense of urgency.

ENGINEERING AND LEGAL FEASIBILITY

Will the Project require the acquisition of an additional water right or change of existing water rights? If yes, please explain.

No, this project will only require an Observation and Monitoring Well Permit. If the aquifer is suitable for a municipal well field and subsequent projects for drilling production wells are pursued, then a water court action will be required to transfer existing senior water rights to the wells as alternate points of diversions.

Will the Project require state or federal regulatory permits of any type? If yes, please explain.

The Town owns the land where the drilling will take place. An observation and Monitoring permit will be required through the Colorado SEO office.

Please list below and attach to this application any feasibility studies or investigations that have been completed or are now in progress for the proposed project.

See link to Water Security Study above.

WATER ACTIVITY BUDGET

Please provide any narrative description of the project expense and funding budget that is necessary. Please describe in-kind contributions, if any, and the anticipated decision date for those funding requests that have not already been approved.

The project opinion of probable cost is shown below. This table has been taken from a Colorado Water Plan Application through the CWCB.

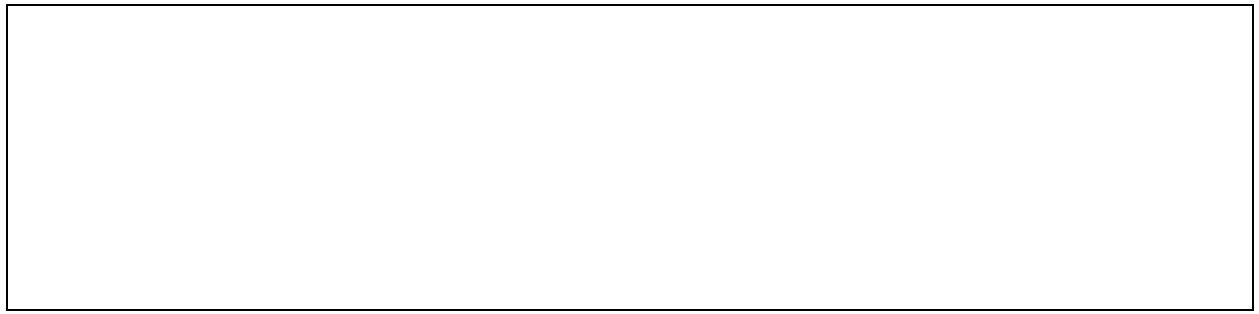
The second table summarizes the project funding including grant sources and funds that Silverton will provide necessary to complete the project.

Silverton will have administrative and labor costs for Public Works Director, Town Manager, and accounting costs. These costs will be paid for internally by Silverton as part of the Water Enterprise budget and are not shown in the attached project budget.

GRANTEE NAME: TOWN OF SILVERTON

Task No. ⁽¹⁾	Description	Start Date ⁽²⁾	End Date	Matching Funds (cash & in-kind) ⁽³⁾	ColoradoWater Plan Funds	Total
1	mobilization demobilization	June 2021	July 2021	\$750.00	\$750.00	\$1,500
2	Exploratory Well Drilling	June 2021	July 2021	\$14,500.00	\$14,500.00	\$29,000
3	Water Quality Lab Tests	July 2021	August 2021	\$2,800.00	\$2,800.00	\$5,600
4	Pumping Tests	July 2021	August 2021	\$5,000.00	\$5,000.00	\$10,000
5	Design Engineering/prepare report	June 2021	August 2021	\$3,500.00	\$3,500.00	\$7,000
6	Construction Contingency	July 2021	August 2021	\$1,152.50	\$1,152.50	\$2,305
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
Total				\$27,702.50	\$27,702.50	\$55,405

Water Project Summary	
Name of Applicant	Town of Silverton
Name of Water Project	Kendall Mountain Alluvial Aquifer Test Drilling Program
CWP Grant Request Amount	\$27,702
Other Funding Sources <u>WSRA SWBRT</u>	\$2,100
Other Funding Sources <u>SWCD</u>	\$11,752
Other Funding Sources _____	\$
Applicant Funding Contribution	\$13,851
Total Project Cost	\$55,405



MATCHING REQUIREMENTS

Applicants must demonstrate that they are actively contributing to the project for which they are requesting funding. Any grant approval will be contingent upon the recipient ultimately demonstrating that they have secured funding for the full project cost.

In addition, applicants must also demonstrate that they will provide, through a cash contribution and/or the performance of in-kind services, at least 25% of the total project costs. See the guidelines and speak to staff for further clarification. Attach additional information if necessary.

Contributing Entity	Amount and Form of Match (note cash or in-kind)
Total Applicant Match (At Least 25%)	\$13,851
Total Other Funding	\$29,802
SWCD Request (Up to 50% of Project Cost)	\$11,752
Total Project Cost	\$55,405

WATER PROJECT BUDGET

Please provide a detailed project budget. You can use the template below or provide a more detailed table in an attachment.

Note: Please describe any payroll or legal costs, as well as any costs for administering this and other grants. SWCD will not fund those portions of the project.

Task/Materials Description	Funded By (Applicant, SWCD, Other)	Amount
Exploratory Well Drilling , 2 each up to 200 ft, 20 ft, surface casing, pvc screen		\$29,000
Water quality Testing for CDPHE Drinking Water Regs, and GWUDI		\$5,600
Pumping test,		\$10,000
Engr and well logging fees		\$11,405
Total Project Cost		\$55,405
Grant Administration Costs as a Percentage of Total Project Cost		21.2%

PREVIOUS SWCD AWARDS AND REQUESTS

Please list all previous request and awards from SWCD by year, amount, and project title. Please ensure that your entity does not exceed the five year limits on awards outlined in the [guidelines](#).

See attached table provided by the SWCD which shows funding assistance from 2006 to 2020 for water supply projects. The Molas Lake line items in this table are not specific to this grant application or to this project and are only shown for clarity of history of funding from the SWCD. The 2019 line item for Water Security Supply Engineering Study is specific to this project and is correctly shown.

Also attached is a letter from Silverton which summarizes the accounting of the recent Water Security Supply Engineering Study.

Date	Name	Notes	Amount
2021	Town of Silverton	Kendall Mtn Well Field Test Drilling Program <i>(Requested)</i>	<i>\$11,752</i>
2019	Town of Silverton	Water Security/Supply Engineering Study	\$12,500
2009	Town of Silverton	Molas Lake Dam Replacement	\$35,000
2006	Town of Silverton	Molas Lake Dam Replacement	\$50,000
			\$109,252



Town of Silverton

John Sites
Public Works Director
jsites@silverton.co.us

May 24, 2020

To: Colorado Water Conservation Board Staff

From:
John Sites, Town of Silverton
jsites@silverton.co.us
970.946.6839
1360 Greene St., P.O. Box 250
Silverton, Co 81433

Re: Final Invoice for Services
Silverton Water Supply / Storage Investigation, POGGI 2019-2811

CWCB Staff,

The Silverton Water Supply project was recommended by the Southwest Basin Roundtable and approved by the CWCB on April 9, 2019. The study accomplished the following objectives as outlined in the approved budget: existing infrastructure and water rights review, identify existing and future water demands, identify water supply options, prioritization of options, prepare report, and project management.

Engineering invoices with description of labor and the WSRF Invoice Tracking Sheet are attached to this document. The original project budget was \$49,452 and the final cost was \$49,195.25. The project is funded by CWCB (50%), Southwest Water Conservation District (25%) and the Town of Silverton (25%). Each task outlined in the project budget achieved 100% completion apart from "assistance with facilitation of public meetings" which was not necessary.

There were no major issues with the project. Silverton is planning implementation of the study recommendations currently. Please refer to the Final Report and Engineering Report for more details.

Regards,
John Sites

**John
Sites**

Digitally signed by John Sites
DN: cn=John Sites, o=Town of
Silverton, ou=Public Works
Department,
email=jsites@silverton.co.us,
c=US
Date: 2020.05.26 08:22:06 -0700

P.O. Box 250 • 1360 Greene Street • Silverton, CO 81433
970-387-5522 ext. 18 • 970-946-6839 Direct
www.silverton.co.us

APPLICANT LIABILITY OR INDEBTEDNESS

Please list any existing long-term liability (multi-year) or indebtedness that exceeds one thousand dollars. This might include bank loans, government agency loans, or bond issues. Please provide the lender name, address, remaining principal, annual payment, and maturity date. If any of these liabilities are currently in default or have been in default at any time in the past, please provide a detailed explanation. Attach a separate schedule as necessary.

The Town of Silverton operates the Water Fund as an Enterprise fund which requires annual budgeting and annual audits. A recent audit can be obtained upon request.

FOR LOAN REQUESTS

Please identify all revenue sources for the applicant that would be available to repay SWCD should financial assistance be offered in the form of a loan.

The Town Water Fund is funded by water service fees and tap fees .

APPLICANT SIGNATURE

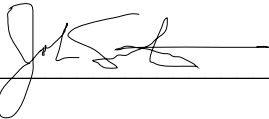
By signing below, I acknowledge I have read the SWCD Grant Program guidelines, I understand the program requirements, and I submit this application, which is complete and true to the best of my knowledge.

Should the grant funds be awarded, I commit to requesting funds when they are needed, and using them only for the specific purpose and amount indicated in my application. SWCD requires written documentation of all committed project funds prior to disbursement.

I understand that if the project is under budget, there is an expectation that grant funding will be returned to SWCD in the proportion the project was under budget.

I understand that if the intended use of grant funds changes, board approval will be necessary. I also understand that SWCD may require additional documentation regarding the use of the funds at its discretion.

I acknowledge SWCD's requirement for a final written report, including a description of work completed and a detailed accounting of the use of funds.

Signature 

12/4/2020
Date

Printed Name John Sites

Please sign and submit the completed application and any supplemental information via email to lauras@swwcd.org or mail it to SWCD 841 E. 2nd Ave., Durango, CO 81301.

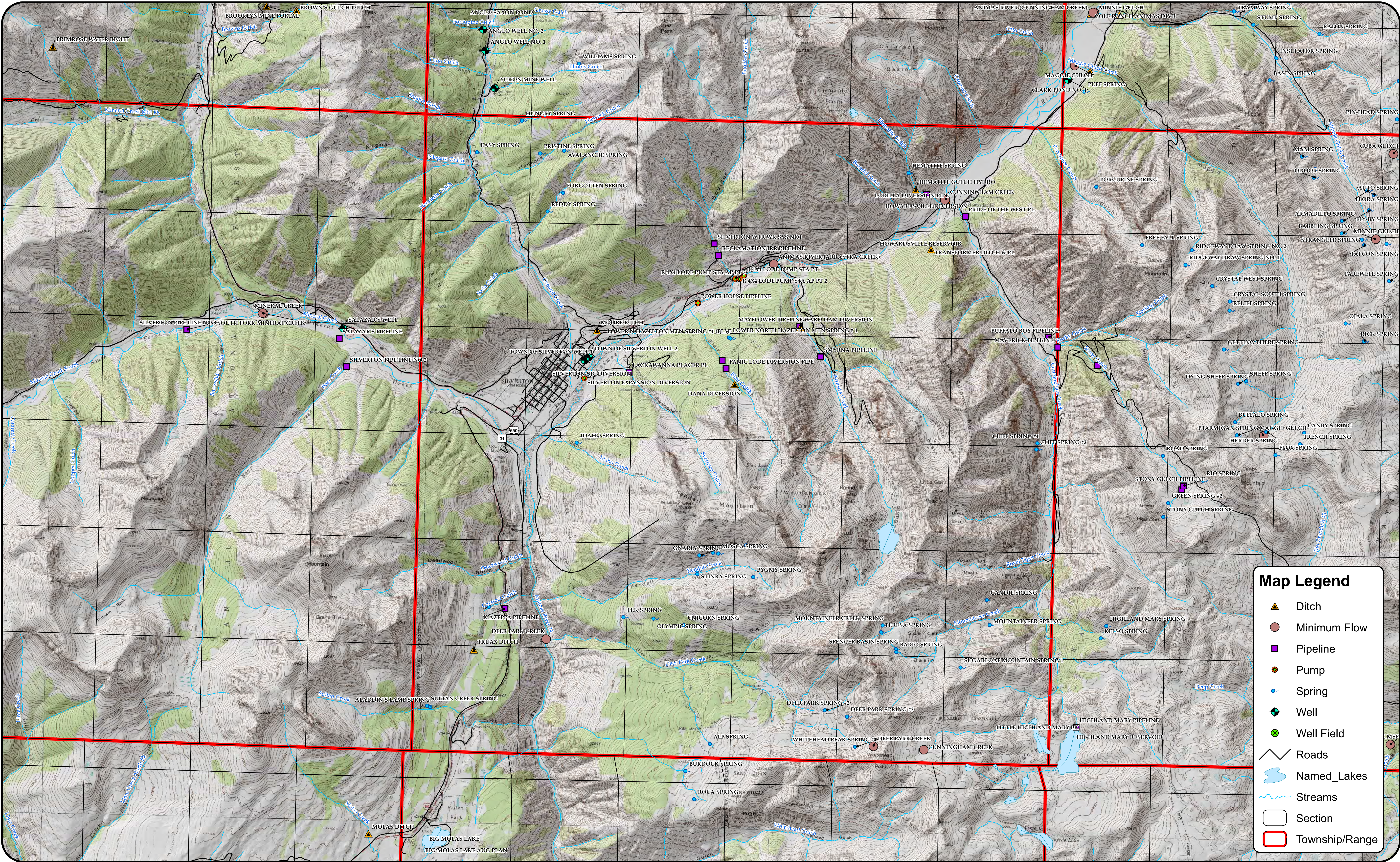
Do not hesitate to contact staff with any questions as you develop your application:
Laura Spann, 970-247-1302, lauras@swwcd.org

Table 3-3 Town of Silverton Water Rights

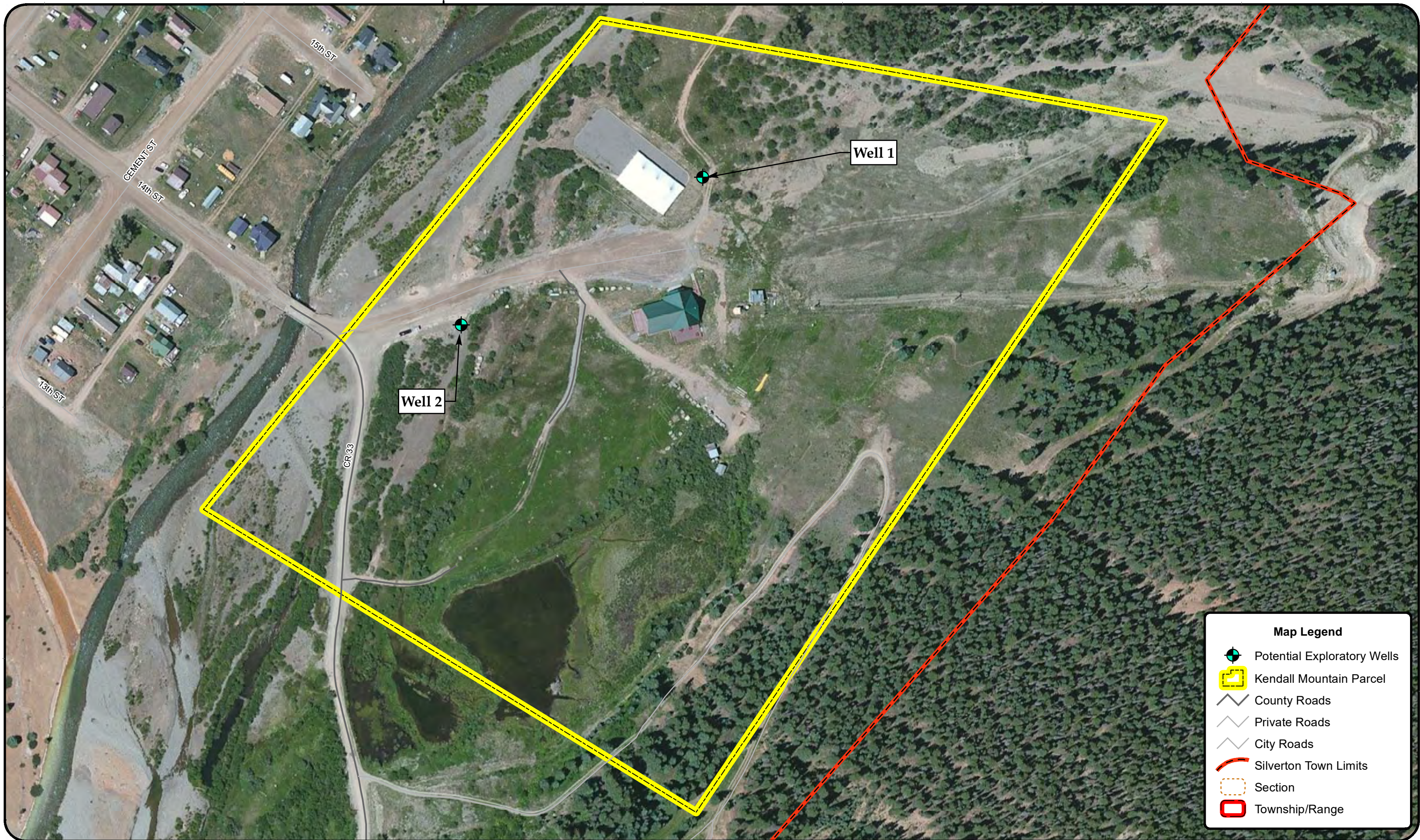
Water Right	Case Number	Appropriation Date	Adjudication Date	Admin No.	Uses	Amount (cfs)		Structure	Comments
						Abs.	Cond.		
Silverton Water Works System No. 1	CA1751-B	12/31/1888	3/21/1966	26974.12418	1, 2, 7, 8	4.65	-	Pipeline	Boulder Creek Diversion
Silverton Water Works System No. 1	CA1751-B	3/31/1899	3/21/1966	26974.17987	1, 2, 7, 8	4.65	-	Pipeline	Galvin Creek Diversion, includes 17.23 AF Reservoir
Silverton Pipe Line No. 2	CA1751-B	9/26/1904	3/21/1966	26974.19992	2, 7, 8	7.0	-	Pipeline	Bear Creek Diversion
Silverton Pipe Line No. 2	W1289	8/24/1987	3/21/1966	32012.00000	2, 8	1.6	-	Pipeline	Alternate Point to Silverton Pipe Line No. 3
Silverton Pipe Line No. 3	W1289	8/24/1987	3/21/1966	32012.00000	2, 7, 8	1.6	-	Pipeline	South Mineral Creek Diversion
Silverton Pipeline No. 2	89CW0063	8/7/1947	12/31/1972	44559.35647	2	0.33	-	Pipeline	Alternate Point of Diversion to Silverton Well No. 2
Silverton Well No. 2	W0959	8/7/1947	12/31/1972	44559.35647	2	0.33	-	Well	
Silverton Pipe Line No. 2	89CW0063	8/7/1954	12/31/1972	44559.41857	2	0.33	-	Pipeline	Alternate Point of Diversion to Silverton Well No. 1
Silverton Well No. 1	W0959	8/7/1954	12/31/1972	44559.41857	2	0.33	-	Well	
Big Molas Lake	04CW0050	5/31/1929	12/31/2004	56247.29005	5, 6	113 AF	-	Reservoir	
		7/15/2004	12/31/2004	56247.29005	1, 2, 3, A, Q		113 AF	Reservoir	
Molas Ditch	04CW0050	5/31/1929	12/31/2004	56247.29005	5, 6	2.2	-	Ditch	
		7/15/2004	12/31/2004	56247.29005	1, 2, 3, A, Q		2.2	Ditch	
Silverton Expansion Diversion	05CW0087	12/31/2000	12/31/2005	56613.55152	2	-	5.2	Pump	805 AF volumetric limit
Silverton /SJC Diversion	05CW0088	12/31/2000	12/31/2005	56613.55152	3, 4, 5, 7, 8, 9	-	0.9	Other	Non-mining related uses
					3, 4		0.5	Other	Mining related uses
Total						23.02	8.8		

Footnotes:

Use Codes: 0 = Storage, 1 = Irrigation, 2 = Municipal, 3 = Commercial, 4 = Industrial, 5 = Recreation, 6 = Fishery, 7 = Fire, 8 = Domestic, 9 = Stock, A = Augmentation, E = Evaporation, Q = Other
 Abs = Absolute, Cond = Conditional, cfs = Cubic Feet per Second, AF = Acre Feet



107°39'30"W



Map Legend

- Potential Exploratory Wells
- Kendall Mountain Parcel
- County Roads
- Private Roads
- City Roads
- Silverton Town Limits
- Section
- Township/Range

2021 SWCD Grant Program – Staff Application Review (Date: 1-11-21 Follow-up Date: 1-19-21)

Name of Project/Applicant: **Twin Buttes Metro District – Lightner Creek Fisheries Enhancement**

<u>Total Project/Phase Cost</u>	<u>Amount of Request SWCD funds</u>	<u>Applicant Match (Cash / In-Kind)</u>	<u>Other Funding Sources</u>
\$42,425	\$21,212.50	\$21,212.50	
	(less than 50% of total)	(at least 25% of total)	

<u>Project Type</u>	<u>Limits (Annual Max/5 Year Max Since 2018)</u>	<u>SWCD Request</u>
Education	\$5,000 / \$10,000	
Water Supply/Restoration	\$75,000 / \$150,000	\$21,212.50
Public Forums/Workgroups	\$20,000 / \$40,000	
Emergency	No limit specified	

Statutory Purposes of SWCD (C.R.S. 37-47-101)

Conservation of San Juan & Dolores rivers for storage, irrigation, mining, or manufacturing Purposes; Construction of reservoirs, ditches and works of irrigation and reclamation of lands not yet irrigated, as well as supplemental supply; Promotion of the health and general welfare of State of Colorado; and Safeguarding of water to which Colorado is equitably entitled.

If educational, does the project/program complement SWCD's existing efforts? **N/A**

Pre-Compact Water Right	Yes ____	No <u>X</u>
--------------------------------	----------	--------------------

<u>Application Information</u>	<u>Criteria Met:</u>
Date Received	X
Eligible Entity	X
Required Match	X
Less than 50% of Total Project Cost	X
Project Type, Description, Location	X
Anticipated Project Timeline	X
Detailed Project Expense Budget	X
No Legal, Payroll, or Grant Admin Costs supported by SWCD	X
Identification of Project Beneficiaries & Partners	X
Summary of Previous SWCD Funding Requests and Awards	X
Not For a Project That Was Already Completed	X
Use of Funds in 2021	X
Has Secured Remaining Project Funding	May pursue CWCB funding of 25%
Purposes of District	X
-Pre-Compact	
-Compact Development & Entitlement	
-Health & Welfare	X
-Irrigation & Storage	

Staff Recommendation: **Approve in the reduced amount of \$16,748, conditioned upon applicant meeting 25% requirement if CWCB funding is approved. The reduction in recommended funding for this grant is due to the overall exceedance of grant requests in the Water Supply/Restoration category.**

Applicant Grant History

Date	Name	Notes	Amount
2021	Twin Buttes Metro District	Lightner Creek Fisheries Enhancement <i>(Requested)</i>	<i>\$21,212.50</i>
			\$21,212.50

Director Notes/Questions:

[illegible]



THE SOUTHWESTERN WATER CONSERVATION DISTRICT
 Developing and Conserving the Waters of the
 SAN JUAN AND DOLORES RIVERS AND THEIR TRIBUTARIES
 IN SOUTHWESTERN COLORADO

GENERAL APPLICATION FOR FINANCIAL ASSISTANCE

SWCD SUBMITTAL CHECKLIST	
Required, Please Initial	
x	I acknowledge I have read and understand the 2021 SWCD Grant Program Guidelines.
x	The financial request to SWCD does not exceed 50% of the total project cost.
x	The applying organization is funding at least 25% of the total project cost.
x	The request is for funds to be used in 2021, for a project to be completed in 2021.
x	I understand that SWCD does not fund payroll, legal, or grant administration costs.
x	I have included a detailed project expense budget.
x	I have included a detailed project funding budget.
x	I have consulted with SWCD staff to ensure all minimum criteria has been met.
Optional	
x	Feasibility and/or Engineering Studies
x	Maps
x	Photos
x	Letters of Support

WATER ACTIVITY SUMMARY			
Date of Submittal	December 11, 2020		
Type of Request	Grant	x	Loan Grant/Loan Package
Project Name	Lightner Creek Fisheries Enhancement		
Applicant	Twin Buttes Metropolitan District # 1		
Project Location (River Basin)	Lightner Creek at Twin Buttes		
Amount of Request	\$21,212.50		
Total Project Cost	\$42,425		
Applicant Match	\$21,212.50 (50%)		
Year for Use of Funds	2021		

WATER ACTIVITY CATEGORY		
X	Limit	Category
X	\$75,000	Water Supply/Watershed Restoration: Water supply or watershed restoration projects, including design, engineering, and construction
	\$20,000	Public Forums/Studies: Public forums, work groups, studies, planning efforts
	\$5,000	Education: Teaching seminars, workshops, and related programs
	N/A	Emergency: Situations arising from catastrophic or unforeseen events

Note: The amount of funding each applicant may receive is further limited by the funding received in any given five-year period, as well as the total amount allocated to each category by the board. Review the guidelines carefully and consult staff if needed (970-247-1302).

APPLICANT INFORMATION

Name of Authorized Entity	Twin Buttes Metropolitan District # 2
Type of Qualified Entity (See Guidelines)	Colorado Quasi-Governmental Entity
Mailing Address	692 Twin Buttes Ave, Durango, CO 81301
Federal ID Number	46-3664951
Contact Person	Steven "Willie" Wilson
Position/Title	Finance Director
Phone Number	970-259-5306
Email	willie@twinbuttesofdurango.com

APPLICANT DESCRIPTION

Please provide a brief description of the applying entity. For ditch companies, please provide the number of shareholders, acres served, and annual assessment.

Twin Buttes Metropolitan District #2, which is a Colorado quasi-governmental entity, was formed to facilitate the acquisition, construction, operation and maintenance of certain Twin Buttes Community Improvements and open space. Please see attached (Exhibit A) service plan for the District.

WATER ACTIVITY DESCRIPTION

Please provide a narrative description of the activity's physical location, as well as its purpose and benefits. Provide a description of the water supply source to be utilized or the water body affected by the project. If possible, include measureable results such as acres served, watersheds impact, types of crops, number of taps, length of ditch improvements, length of pipe installed, area of habitat improvements, or students impacted. Photos, maps, or other graphics can be inserted here or attached.

Please explain how the project assists SWCD in furthering its statutory mission to protect, conserve, use, and develop the water resources of southwestern Colorado, as well as safeguard all waters to which Colorado is entitled. Specifically, if you project enhances or preserves any pre-compact water rights, please describe the quantities, appropriation dates, and adjudication dates of those rights. For help acquiring water rights information, call DWR (970-247-1845).

INTRODUCTION AND BACKGROUND

Twin Buttes Metropolitan District # 2 (The "District") is seeking financial support to restore a 550-foot section of Lightner Creek to improve the fish habitat. With additional financial assistance from Twin Buttes of Durango, Inc and possibly the Colorado Water Conservation Board ("CWCB"), the District is intending to complete the restoration project in calendar year 2021.

I also represent the developer of Twin Buttes of Durango, Inc. ("TBDI"). TBDI recognizes the importance and benefit of restoring the creek bed and has committed up to 25% of the project cost. The developer intends to provide its financial support in the form of In-Kind construction services and construction materials. Pursuant to favorable discussions with the Colorado Water Conservation Board ("CWCB"), the District also applied for a grant with CWCB last month and is hopeful the CWCB will fund 25% of the project.

Twin Buttes Metropolitan District was formed in 2013 for the primary purpose of developing, advancing and maintaining the outdoor amenities and improvements for the benefit of the residents of Twin Buttes and Durango residents. Although this fledgling District does not have deep experience in the watershed. It does fully recognize the importance and benefit of a healthy watershed, so much so it has engaged a local specialist, Basin Hydrology, Inc., to meet our objectives. The project entails building certain rock structures in the bed of the creek, under the direct supervision of Mark Oliver of Basin Hydrology. (Please also see attached report and work estimate dated 8.1.20) The technical aspect of the work is the setting and placement of the rock structures. This work will be conducted by the developer's skilled equipment operator, Mike Greer. Mike Greer has over 30 years' experience operating heavy equipment.

OBJECTIVES

The objectives of this project are the following:

- Provide an enhancement to the proposed adjacent Pauls Park, Twin Buttes subdivision, Durango, Colorado.
- Provide the Lightner Creek bed with rock structures to foster improved fish habitat, water quality, and reduce creek bank erosion.

TASK 1 – Survey

Description of Task

- Perform necessary survey work to create adequate construction plans to build the rock structures.

Method/Procedure

- Traditional survey methods

Deliverable

- Creek survey graphic
- Construction plans & specifications

TASK 2 – Design

Description of Task

- Develop and draft schematic design and specifications for construction of the rock structures.

Method/Procedure

- Traditional drafting methods.

Deliverable

- Construction plans and associated specifications necessary to construct the rock structures.

TASK 3 – Permitting

Description of Task

- Prepare, submit permit application and oversee the project so that it complies with US Army Core of Engineers' permit.

Method/Procedure

- Traditional administrative and construction supervision techniques and procedures.

Deliverable

- Certificate of compliance issued by the US Army Core of Engineers' permit.

Task 4 – Construction Oversight

Description of Task

- Traditional constructional oversight procedures and techniques.

Method/Procedure

- Develop and maintain construction schedule.
- Check survey stakes and layouts.
- Direct & supervise excavation operator and materials hauler.
- Meet with US Army core of Engineers and ensure that their directives are carried out to comply with permit.

Deliverable

- Not applicable

Task 5 & 6– Rock Materials and Large Tree Trunk Materials

Description of Task

- Not applicable. Does not apply to materials.

Task 7 – Rock & Tree Material Hauling

Description of Task

- Transfer both rock and tree material from developer's yard to various staging areas along Lightner Creek.

Method/Procedure

- Haul material utilizing large commercial dump truck.

Deliverable

- Not applicable

Task 8 – Excavation

Description of Task

- Utilizing an appropriate size "mini" excavator to place rock to form designed structures.

Method/Procedure

- Traditional methods utilizing rubber tracking to ensure minimal creek bed damage.

Deliverable

- Installed creek rock structures that comply with the US Army Core of Engineers' permit.

WATER PROJECT TIMELINE

Please provide a narrative description of the timeline for the project's major tasks and/or a detailed outline. **See Attached Project Time Table and Budget**

ENGINEERING AND LEGAL FEASIBILITY

Will the Project require the acquisition of an additional water right or change of existing water rights? If yes, please explain.**NO**

NO

Will the Project require state or federal regulatory permits of any type? If yes, please explain.

The project will require an Army Corps of Engineers permit. It will likely be permitted via Regional General Permit 12 (Aquatic Habitat Improvement for Stream Channels in Colorado) since the primary project purpose is to improve fish habitat. The irrigation diversion structure

does not require permitting since it is simply be reconstructed in-place (i.e., a maintenance activity).

Please list below and attach to this application any feasibility studies or investigations that have been completed or are now in progress for the proposed project.

Please see Exhibit B

WATER ACTIVITY BUDGET

Please provide any narrative description of the project expense and funding budget that is necessary. Please describe in-kind contributions, if any, and the anticipated decision date for those funding requests that have not already been approved.

Basin Hydrology

- Pauls Park Reach-Survey, design, permitting and construction oversight \$8,075 (85hrs @\$95/hr)
- McIntyre Ranch Reach-Survey, design, permitting and construction oversight \$10,350 (109hrs @\$95/hr)

Twin Buttes of Durango, Inc (In-Kind)

- Construction estimate
- 9 days of TB excavator time (9*8*\$160/hr. = \$11,500)
- 200- 2'-3' boulders (200*\$50/rock=\$10,000)
- Rock hauling (16*\$100/hr.= \$1600) and 4-7 (20'-30' long) large tree trunks (6*\$15=\$900).
- Total \$24,000.

Also see attached Project Time Table and Budget

MATCHING REQUIREMENTS

Applicants must demonstrate that they are actively contributing to the project for which they are requesting funding. Any grant approval will be contingent upon the recipient ultimately demonstrating that they have secured funding for the full project cost.

In addition, applicants must also demonstrate that they will provide, through a cash contribution and/or the performance of in-kind services, at least 25% of the total project costs. See the guidelines and speak to staff for further clarification. Attach additional information if necessary.

Contributing Entity	Amount and Form of Match (note cash or in-kind)
Twin Buttes of Durango, Inc (In-Kind)	\$21,212.50

Total Applicant Match (At Least 25%)	\$ 21,212.50
Total Other Funding	\$ 0.00 (Possibly CWCB)
SWCD Request (Up to 50% of Project Cost)	\$ 21,212.50
Total Project Cost	\$ 42,425.00

WATER PROJECT BUDGET

Please provide a detailed project budget. You can use the template below or provide a more detailed table in an attachment.

Note: Please describe any payroll or legal costs, as well as any costs for administering this and other grants. SWCD will not fund those portions of the project.

Task/Materials Description	Funded By (Applicant, SWCD, Other)	Amount
Survey	SWCD	} 18,425
Design	SWCD	
Permitting Construction Oversight	SWCD	
Rock	Twin Buttes of Durango, Inc	10,000
Rock Hauling	Twin Buttes of Durango, Inc	1,600
Tree Trunks	Twin Buttes of Durango, Inc	900
Excavator	Twin Buttes of Durango, Inc	11,500
Total Project Cost		\$ 42,425
Grant Administration Costs as a Percentage of Total Project Cost		% 0

PREVIOUS SWCD AWARDS AND REQUESTS

Please list all previous request and awards from SWCD by year, amount, and project title. Please ensure that your entity does not exceed the five-year limits on awards outlined in the [guidelines](#).

N/A

APPLICANT LIABILITY OR INDEBTEDNESS

Please list any existing long-term liability (multi-year) or indebtedness that exceeds one thousand dollars. This might include bank loans, government agency loans, or bond issues. Please provide the lender name, address, remaining principal, annual payment, and maturity date. If any of these liabilities are currently in default or have been in default at any time in the

past, please provide a detailed explanation. Attach a separate schedule as necessary.

Please see attached audit report as of and for the year ending December 31, 2019.

FOR LOAN REQUESTS

Please identify all revenue sources for the applicant that would be available to repay SWCD should financial assistance be offered in the form of a loan.

N/A

APPLICANT SIGNATURE

By signing below, I acknowledge I have read the SWCD Grant Program guidelines, I understand the program requirements, and I submit this application, which is complete and true to the best of my knowledge.

Should the grant funds be awarded, I commit to requesting funds when they are needed, and using them only for the specific purpose and amount indicated in my application. SWCD requires written documentation of all committed project funds prior to disbursement.

I understand that if the project is under budget, there is an expectation that grant funding will be returned to SWCD in the proportion the project was under budget.

I understand that if the intended use of grant funds changes, board approval will be necessary. I also understand that SWCD may require additional documentation regarding the use of the funds at its discretion.

I acknowledge SWCD's requirement for a final written report, including a description of work completed and a detailed accounting of the use of funds.



Signature

December 11, 2020

Date

Printed Name

STEVEN H. WILSON
FINANCE DIRECTOR

Please sign and submit the completed application and any supplemental information via email to lauras@swwcd.org or mail it to SWCD 841 E. 2nd Ave., Durango, CO 81301.

Do not hesitate to contact staff with any questions as you develop your application:
Laura Spann, 970-247-1302, lauras@swwcd.org

Twin Buttes Metro District

Southwestern Water Conservation District-Water Supply/Watershed Resoration Assistance Grant

Project Timetable and Budget

Task	Description	Target Start Date	Target Complete Date	SWCD Grant	Other Funding Cash *	Total
1	Survey	05/01/21	05/31/21	4,606.25	x	-
2	Design	06/01/21	06/30/21	4,606.25	x	-
3	Permitting	07/01/21	10/31/21	4,606.25	x	-
4	Construction Oversight	09/01/21	10/31/21	4,606.25	x	-
5	Rock Material- approx 200 2'-3' rocks @ \$50/rock	09/01/21	10/31/21	x	10,000.00	10,000.00
6	Large Tree Trunk Material-approx 6 large tree trunks @\$15/trunk	09/01/21	10/31/21	x	900.00	900.00
7	Material Hauling- 16 hrs of hauling @\$100/hr	09/01/21	10/31/21	x	1,600.00	1,600.00
8	Excavator Time-72 hrs of (mini-excavator) excavator work @ \$160/hr	09/01/21	10/31/31	2,787.50	8,712.50	8,712.50
TOTALS				\$ 21,212.50	\$ 21,212.50	\$ 21,212.50

* Colorado Water Conservation Board or the Developer (TBDI) or Twin Buttes Metropolitan District

August 11, 2020

Mr. Steve "Willie" Wison
Twin Buttes Metropolitan District
692 Twin Buttes Ave.
Durango, CO 81301
Willie@twinbuttesofdurango.com

RE: Twin Buttes – Lightner Creek Fisheries Grant Information

Willie,

Please review these project descriptions, maps and costs and let me know if you have questions, need additional information, etc. for your grant preparations. I've included the irrigation diversion description and costs as eliminating fish barriers always excite fishing-oriented funders.

Pauls Park Reach

This reach, approximately 350 ft. long, is directly adjacent to Pauls Park and in reasonably good condition, geomorphically speaking, and supports good bank vegetation and overhead shade from cottonwoods and some alders and willows (see photo 1 for reach overview). The lacking habitat type is pools. Pools are critical to Lightner Creek primarily during low summer and winter flows to hold fish. Based on site visits, four rock and-or log cross vane structures with excavated pools are proposed upstream from the access bridge. These features are proposed at the tails of existing riffle features, where existing features (e.g., stumps, large boulders) would make a good bank tie-in for such structures and-or where very shallow or narrow pools currently exist. Photo 1 provides an overview of the project reach (looking upstream from the access bridge). The approximate locations of the cross vane structures are shown on the Pauls Park reach map.

Survey, design, Army Corps of Engineers and construction oversight would be provided by Basin Hydrology with rock and-or log materials (all available onsite) and equipment provided by Twin Buttes. This project location is proposed to be an amenity to Pauls Park once it is developed. It will not only provide fishing opportunities to the public but also draw people to enjoy the water and its constructed features.

Basin Hydrology costs: \$8075



Photo 1. Looking upstream at Pauls Park reach.



Pauls Park reach map.

McIntyre Ranch Reach

This reach consists of two distinct segments: an upstream irrigation diversion structure that is effectively a fish barrier and a downstream segment with an overly wide channel and eroded banks with no vegetation due to confined use of livestock along the channel. Photos 3 and 4 show the two segments.

The existing diversion structure is a random stack of rock approximately 3 ft. high. This elevation is needed to divert water into an irrigation ditch. The structure needs to be replaced using three step-down rock cross vane structures, each with approximately a 1 ft. of drop for long-term durability and to allow fish migration.

The downstream segment, approximately 200 ft. long, is highly disturbed due to confined livestock. The channel is overly wide and the banks generally lack vegetation and are unstable. The upstream end of this segment is a large open bottom culvert which provides a good upstream control point. The segment's channel needs to be narrowed and its banks reconstructed and vegetated. One J-hook and two cross vane rock and-or log structures, along with burying recently-fallen large cottonwoods into the banks, will provide channel stability and create unique pool and overhead cover fish habitat.

Survey, design, Army Corps of Engineers and construction oversight would be provided by Basin Hydrology with vegetation, fill material, rock, and-or log materials (all available onsite) and equipment provided by Twin Buttes. Proposed work in this reach will eliminate the only known fish barrier on Lightner Creek from Twin Buttes down to the Animas River and significantly improve channel stability, fish habitat and water quality. It will also increase the fishable area on Lightner Creek and allow fish to move upstream from the Animas River further up into Lightner Creek to spawn.

Basin Hydrology costs:

Diversion: \$2800.00 (no Army Corps of Engineers' permit required)

Downstream segment: \$7,550



Photo 2. Looking downstream at irrigation diversion.



Photo 3. Looking downstream at livestock disturbed area.



Photo 4. Looking upstream at livestock disturbed area.



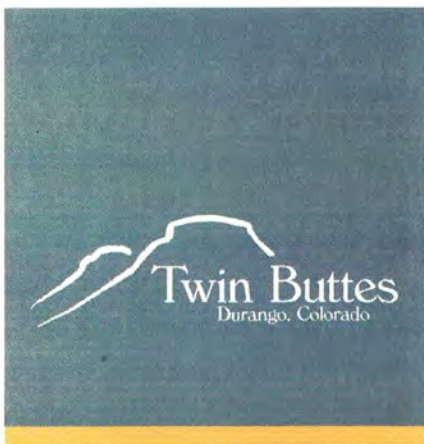
McIntyre Ranch reach map.

Please contact me if you have any questions regarding this matter.

Sincerely,

T. Mark Oliver

T. Mark Oliver
Basin Hydrology, Inc.
970-903-0366
mark@basinhydrology.com



TWIN BUTTES OF DURANGO, INC.
690 Twin Buttes Avenue,
Durango CO 81301
(970) 259-5306

December 11, 2020

Board of Directors
Southwestern Water Conservation District
Durango, Colorado

Re: Lightner Creek – Habitat and watershed restoration

Dear Board,

Please accept this letter reflecting Twin Buttes of Durango, Inc. ("TBDI") support and endorsement for this proposed watershed restoration project that runs along Lightner Creek and adjacent to the Twin Buttes community.

TBDI recognizes the importance of a healthy watershed from both environmental and recreational aspects. The project will enhance the fisheries habitat as well as water quality. The recreationalist will both enjoy the fishing and recreating that the improved creek will bring.

Sincerely,

Glenn Pauls
President

A handwritten signature in blue ink, appearing to read "Glenn Pauls", is written over the printed name and title.



Five Rivers Chapter

October 7, 2020

To Whom It May Concern:

Re: Habitat and watershed restoration – Lightner Creek.

This is to advise that the Five Rivers of Trout Unlimited (5RTU) is attempting to partner with the Twin Buttes Metro District on watershed restoration on certain reaches of Lightner Creek.

5RTU is in support of this restoration effort since it will improve the cold water fishery habitat and facilitate the up and down stream movement of trout as well as providing improved spawning habitat.

Respectfully,

Frank Skillen, President – Five Rivers Trout Unlimited.



BASIN HYDROLOGY, INC

river, watershed & wetland studies

2340 County Road 203
Durango, CO 81301

Lightner Creek – Twin Buttes Water Supply/Watershed Restoration Grant Application
Additional Information for SWWCD
January 19, 2021

The following information is provided to add some clarity to Twin Buttes' proposed project on Lightner Creek.

Cold Water Fisheries

Lightner Creek supports a coldwater fishery. The fishery consists of both native and non-native species as well as sport and non-sport species. Based on fish surveys conducted by the Colorado Parks and Wildlife (CPW) approximately ¼ mile upstream from Wildcat Canyon and near the current main access road, native species include rainbow trout, sculpin, dace and sucker. Non-natives include brook trout and brown trout. Only the trout are considered sport fish. The CPW surveys indicate that Lightner Creek through the Twin Buttes development may provide important spawning habitat from rainbows and browns moving up from the Animas River. Their surveys also found a healthy population of young-of-the-year, juvenile and adult rainbow trout. Based on CPW's findings, Lightner Creek is a good candidate for focused habitat improvements.

Habitat Improvement

Habitat improvement would not alter trout spawning habitat areas (e.g., shallow water at the end of pools). The three Twin Buttes' project areas require different approaches to habitat improvement due to unique conditions at each site.

The Pauls Park reach supports good bank vegetation and appropriate channel dimensions but is lacking significant pool features. Pools provide habitat during both low and high flow conditions as well as over-winter habitat. By installing appropriate structures (discussed later) in the river that create scour, pools are maintained. The fisheries will also benefit from these pools by creating additional spawning habitat.

Due to the construction of the irrigation diversion dam between Pauls Park and the McIntyre Ranch, it is effectively a fish barrier. Habitat improvement here would consist of replacing the 3 ft. tall jumble of rock with a series of stair-stepping rock structures and pools that limit the drop over any one structure to 12 inches or less. This type of system allows unrestricted fish migration.

At the McIntyre Ranch, the channel and banks have been degraded by long-term livestock concentrations along the creek (the livestock were removed in the summer of 2020). The channel is overly wide and shallow with minimal bank vegetation. Habitat improvements within this reach include channel narrowing, reconstructing banks using large grass and willow mats and installing in-channel and in-bank rock and log structures. The combined affect is to improve channel stability by narrowing the channel and allowing bank vegetation to become reestablished while providing pool and overhead cover habitats.

Constructed Rock and Log Structures

Various types of in-channel rock structures can be used to affect hydraulics based on the desired outcome. The majority of the rock structures at Twin Buttes will be cross vanes. These are slightly

flared open U or C-shaped structures with the top of the U or C tying into the downstream right and left top-of-bank while the upstream end of the structure is set just above the channel bed. This shape and structure slope forces water away from the banks and towards the center of the channel which in turn creates scour (a pool) on the downstream side of the structure. These structures are similar to a roman arch in that flows are pushing the rocks against each other in the downstream direction. Each structure is constructed using a footer rock (deep into the channel) with a top rock sitting on the footer. This helps prevent the structure from failing due to downstream scouring. The cross vane is a frequently-used rock structure for a multitude of river projects.

Log structures will be used to create overhead cover within the banks. Logs will be placed in the bank parallel to the channel so that fish can move between the open channel and the cover provided by the overhead log structures (desired by brown trout). Soil and vegetation will be placed on top of the logs. Cross vane structures will also be installed within this reach to provide pool habitat and to help protect reconstructed banks.

2021 SWCD Grant Program – Staff Application Review (Date: 1-12-2021 Follow-up Date: 1-15-21)

Applicant-Project: **Four Corners Water Center at Fort Lewis College**
Dolores River Adaptive Management Support: Task 4 – Online Data Repository

<u>Total Project/Phase Cost</u>	<u>Amount of Request SWCD funds</u>	<u>Applicant Match (Cash / In-Kind)</u>	<u>Other Funding Sources</u>
\$243,566	\$19,550	\$58,399	
	(less than 50% of total)	(at least 25% of total)	

<u>Project Type</u>	<u>Limits (Annual Max/5 Year Max Since 2018)</u>	<u>SWCD Request</u>
Education	\$5,000 / \$10,000	
Water Supply/Restoration	\$75,000 / \$150,000	
Public Forums/Workgroups	\$20,000 / \$40,000	\$19,550/\$39,766
Emergency	No limit specified	

Statutory Purposes of SWCD (C.R.S. 37-47-101)

Conservation of San Juan & Dolores rivers for storage, irrigation, mining, or manufacturing Purposes; Construction of reservoirs, ditches and works of irrigation and reclamation of lands not yet irrigated, as well as supplemental supply; Promotion of the health and general welfare of State of Colorado; and Safeguarding of water to which Colorado is equitably entitled.

If educational, does the project/program complement SWCD's existing efforts? **N/A**

Pre-Compact Water Right	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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<u>Application Information</u>	<u>Criteria Met:</u>
Date Received	X
Eligible Entity	X
Required Match	24% of 25%--applicants requests waiver based on broad stakeholder support
Less than 50% of Total Project Cost	X
Project Type, Description, Location	X
Anticipated Project Timeline	X
Detailed Project Expense Budget	X
No Legal, Payroll, or Grant Admin Costs supported by SWCD	Admin fee 15%, reduced from FLC's regular 30%
Identification of Project Beneficiaries & Partners	X
Summary of Previous SWCD Funding Requests and Awards	X
Not For a Project That Was Already Completed	X
Use of Funds in 2021	X
Has Secured Remaining Project Funding	X –WSRF Statewide \$140,617, WSRF Basin \$25,000, DWCD \$10,000, DRRP \$1,500, TNC \$10,000, Catena \$12,620 (pending)
Purposes of District	X
-Pre-Compact	
-Compact Development & Entitlement	X
-Health & Welfare	X
-Irrigation & Storage	X

Staff Recommendation: Approve partial funding in the amount of \$13,200, which excludes the grant administration costs and requires a 25% match from the applicant. Additionally, the reduction in recommended funding for this grant is due to the overall exceedance of grant requests in the Public Forums/Workgroups/Studies category.

Applicant Grant History

Date	Name	Notes	Amount
2021	Fort Lewis College	Dolores River Adaptive Management, Data Repository <i>(Requested)</i>	<i>\$19,550</i>
2020	Fort Lewis College	Campus Water Action Plan – Scoping	\$5,216
2018	Fort Lewis College	Animas River Microbial Study	\$15,000
2013	Fort Lewis College	Old Fort Lewis Water System Rehabilitation	\$94,103
2008	Fort Lewis College	My Water Comes from the San Juans	\$20,000
			\$153,869

Director Notes/Questions:

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THE SOUTHWESTERN WATER CONSERVATION DISTRICT

Developing and Conserving the Waters of the
SAN JUAN AND DOLORES RIVERS AND THEIR TRIBUTARIES
IN SOUTHWESTERN COLORADO

GENERAL APPLICATION FOR FINANCIAL ASSISTANCE

SWCD SUBMITTAL CHECKLIST	
Required, Please Initial	
GR	I acknowledge I have read and understand the 2021 SWCD Grant Program Guidelines .
GR	The financial request to SWCD does not exceed 50% of the total project cost.
	The applying organization is funding at least 25% of the total project cost.
GR	The request is for funds to be used in 2021, for a project to be completed in 2021.
	I understand that SWCD does not fund payroll, legal, or grant administration costs.
GR	I have included a <u>detailed</u> project expense budget.
GR	I have included a <u>detailed</u> project funding budget.
GR	I have consulted with SWCD staff to ensure all minimum criteria has been met.
Optional	
	Feasibility and/or Engineering Studies
	Maps
	Photos
GR	Letters of Support

WATER ACTIVITY SUMMARY			
Date of Submittal	12/11/20		
Type of Request	Grant <input checked="" type="checkbox"/>	Loan <input type="checkbox"/>	Grant/Loan Package <input type="checkbox"/>
Project Name	Dolores River Adaptive Management Support: Task 4 – Online Data Repository		
Applicant	Four Corners Water Center at Fort Lewis College		
Project Location (River Basin)	Dolores River		
Amount of Request	\$19,550		
Total Project Cost	\$243,566 (5-year project)		
Applicant Match	\$24,279 in-kind, \$34,120 cash, \$165,617 CWCB grant		
Year for Use of Funds	2021		

WATER ACTIVITY CATEGORY		
X	Limit	Category
	\$75,000	Water Supply/Watershed Restoration: Water supply or watershed restoration projects, including design, engineering, and construction
X	\$20,000	Public Forums/Studies: Public forums, work groups, studies, planning efforts
	\$5,000	Education: Teaching seminars, workshops, and related programs
	N/A	Emergency: Situations arising from catastrophic or unforeseen events
Note: The amount of funding each applicant may receive is further limited by the funding received in any given five-year period, as well as the total amount allocated to each category by the board. Review the guidelines carefully and consult staff if needed (970-247-1302).		

APPLICANT INFORMATION	
Name of Authorized Entity	Fort Lewis College
Type of Qualified Entity (See Guidelines)	Public Entity
Mailing Address	1000 Rim Drive, Durango, CO 81301
Federal ID Number	
Contact Person	Gigi Richard
Position/Title	Director, Four Corners Water Center
Phone Number	970-247-6561
Email	garichard@fortlewis.edu

APPLICANT DESCRIPTION
<p>Please provide a brief description of the applying entity. For ditch companies, please provide the number of shareholders, acres served, and annual assessment.</p>
<p>Fort Lewis College (FLC) is a public four-year college in Durango, Colorado. Because of its unique origins as a military fort turned Indian boarding school turned state public school, Fort Lewis College also follows a 1911 mandate to provide a tuition-free education for qualified Native Americans.</p> <p>The Four Corners Water Center at Fort Lewis College is committed to cultivating the next generation of water leaders and creating opportunities for collaborations between the regional water leaders and the campus community. The water center was created in July 2019.</p> <p>The proposed project is a collaborative effort involving the following partners:</p> <ul style="list-style-type: none"> • Colorado Mesa University (CMU) • The Nature Conservancy (TNC) • Rivers Edge West (REW) • Conservation Legacy (CL) • Colorado Parks and Wildlife (CPW) • US Bureau of Reclamation (USBR) • Bureau of Land Management (BLM)

WATER ACTIVITY DESCRIPTION

Please provide a narrative description of the activity's physical location, as well as its purpose and benefits. Provide a description of the water supply source to be utilized or the water body affected by the project. If possible, include measureable results such as acres served, watersheds impact, types of crops, number of taps, length of ditch improvements, length of pipe installed, area of habitat improvements, or students impacted. Photos, maps, or other graphics can be inserted here or attached.

Please explain how the project assists SWCD in furthering its statutory mission to protect, conserve, use, and develop the water resources of southwestern Colorado, as well as safeguard all waters to which Colorado is entitled. Specifically, if you project enhances or preserves any pre-compact water rights, please describe the quantities, appropriation dates, and adjudication dates of those rights. For help acquiring water rights information, call DWR (970-247-1845).

We are requesting funding to support the development of an accessible online data repository for Dolores River monitoring data. Development of the database is **Task 4** of a five-year ***Dolores River Adaptive Management Support*** project that includes a monitoring and data analysis effort and participation of: Fort Lewis College, Dolores River Native Fish Monitoring and Recommendations Team, The Nature Conservancy, RiversEdge West, Colorado Mesa University, Conservation Legacy, Colorado Parks and Wildlife, Bureau of Land Management, US Bureau of Reclamation and the US Forest Service. The five-year project was approved for \$165,617 of funding from CWCB-WSRF funds and includes \$34,120 of cash match and total of \$24,279 in-kind match from the various partners.

The **five-year project has three main outcomes**, all of which support the management decisions and flow recommendations made by the Dolores River Native Fish Monitoring and Recommendations Team (M&R Team) for the Dolores River below McPhee Reservoir. The project will result in:

1. a **geomorphic monitoring and data analysis protocol** for the Dolores River downstream from McPhee Dam that is sustainable in the long-term and has a responsive component that can be activated rapidly when hydrologic conditions are favorable (Task 1),
2. implementation of four years of geomorphic and vegetation **field data collection** and associated **data processing, analysis and reporting** (Tasks 2 and 3), and
3. a sustainable and accessible **online repository** for past and future data collected on the Dolores River (Task 4).

The purpose of Task 4 is to create a useful and sustainable website to house the data from past Dolores River Native Fish Monitoring and Recommendations Team (M&R Team) studies and to accommodate the data that will be collected by future monitoring efforts (Task 2 and other efforts). Currently, a large body of data, research, reports and other information on the changing ecological and geomorphological condition of the Dolores River exists. However, this information is currently stored in different formats and in different locations, creating a barrier to its exploration, retrieval and use. As new data collection efforts (Task 2) come online, a more structured long-term approach to data and metadata management is required.

The major outcome of Task 4 will be a single online data repository for past and future Dolores River data, policy and operational documents, and other surveys and studies.

Method/Procedure:

Lotic Hydrological (Lotic) will work with Fort Lewis College to install and manage a Metacat server in support of data and metadata management for the Dolores River. This solution will allow for efficient archival and query of data and information procured by the affiliates of the M&R Team. Data sets accommodated by the system will include GIS files, CSV files, spreadsheet files, photos, reports, maps, and other relevant data. Critically, this solution will enable and enforce creation of metadata records

conformant to one of several ecological published metadata standards (e.g., EML). The data management system will include a web-based graphical user interface to simplify data exploration or archival. This web-accessible system will be developed and installed on a Fort Lewis College server to ensure long term maintenance and support. The fully developed system will include HTML metadata entry forms and web pages and/or digital documentation that provides instructions for future use of the system for data archival and retrieval. Once the system is up and running, Lotic will work in close coordination with data generators and data managers to develop metadata templates for historical data sets and archive those data sets in the Metacat server. The fully populated Metacat server will allow researchers, resource managers, and members of the public to easily query raw datasets, derived products, reports, and other deliverables by topic, date, or location.

The FCWC and FLC's IT department will provide the institutional support for the new website and FLC students will be involved maintenance of the database. FLC already hosts the archived Dolores River Dialogue website and has the capacity with support of the water center and student employees to maintain an online data repository over the long term. FLC has already purchased the domain names: *DoloresRiver.org* and *FourCornersWater.org*. The back-end of the site will be designed so that FLC students can help maintain the site and so that data collected in Task 2 can be easily input into the database.

Benefits:

Creating an online, flexible metadata catalog and data repository with a user-friendly interface for information entry and retrieval provides the following benefits:

- There is broad interest in the Dolores River downstream from McPhee dam, both in the big picture and in detailed data (e.g., graduate students, research scientists, decision makers, stewardship efforts) and the proposed database will make data readily available to anyone interested in the Dolores River.
- Having data readily available will help to avoid reinventing the wheel as research continues and will foster research that informs future decision-making.
- The accessibility of the database will help scientists find, understand and effectively use data sets that have been collected by a variety of different organizations.
- Easy access to data will facilitate planning for continued research efforts so that the M&R team can be more responsive in a more informed way. Because monitoring data will seamlessly funnel into the new database, the M&R team will be able to review monitoring results which will help them plan for rapid deployment of monitoring in response to hydrology.

This project will assist SWCD in furthering its statutory mission by developing a modern and useful platform to house invaluable data, research, reports, and other information about the Dolores River, one of the most important water bodies in southwest Colorado. SWCD can direct Colorado citizens, water managers, scientists, and others to this resource to find data to support management or research activities. The project as a whole will gather important monitoring data to inform management decisions, provide opportunities for meaningful stakeholder engagement, and allow for young people to learn and become involved in the Dolores River.

WATER PROJECT TIMELINE

Please provide a narrative description of the timeline for the project's major tasks and/or a detailed outline.

Task 4 – Website/database development and maintenance will be completed via the following sub-tasks:

- 4.1 Data Organization - The Four Corners Water Center (FCWC) at Fort Lewis College (FLC) will coordinate with the project's technical team and M&R Team to gather datasets to be included in the new online data repository. (Jan-Mar 2021 - in-kind and cash match)
- 4.2 Stakeholder requirements elicitation - Lotic will communicate directly with project partners to understand planned data collection activities (field work), archiving needs, and anticipated reporting uses. Stakeholder needs will drive the structure and user interface design for data storage, cataloging, and retrieval. (Jan-Mar 2021 - SWCD request)
- 4.3 Construct metadata catalog and repository – Lotic will coordinate with Fort Lewis College IT department to secure server space and web hosting arrangements, establish long term maintenance protocols for the repository, and build a public-facing user interface for the M&R team. (Apr-July 2021 - SWCD request)
- 4.4 Stakeholder training – Lotic will work provide training to project partners on usage of the Metacat server (M&R Team) and server maintenance of the back end (FLC staff and students). (Aug-Oct 2021 - SWCD request)
- 4.5 Data Visualization - Lotic Hydrological work with the technical team to plan for graphical visualization tools to make key datasets easy to interpret in a visual manner. The technical team, in consultation with the M&R Team, will identify the key datasets are most important for critical decisions and should be included in the visualization. A protocol for data formatting so that future data can easily be included in these tools will also be included. (Oct-Dec 2021 – Catena funds requested)
- 4.6 Populate database - In years 2-5 of the grant, FCWC will work with FLC students to input each year's monitoring data into the website. (2022-2024 – CWCB funding)

ENGINEERING AND LEGAL FEASIBILITY

Will the Project require the acquisition of an additional water right or change of existing water rights? If yes, please explain.

No

Will the Project require state or federal regulatory permits of any type? If yes, please explain.

No

Please list below and attach to this application any feasibility studies or investigations that have been completed or are now in progress for the proposed project.

WATER ACTIVITY BUDGET

Please provide any narrative description of the project expense and funding budget that is necessary. Please describe in-kind contributions, if any, and the anticipated decision date for those funding requests that have not already been approved.

The **five-year project budget** is \$243,566, which includes (see attached detailed budget):

Task 1 – Monitoring Protocol Development (year 1 only) - \$27,248

- Technical team time (FLC, CMU, REW, BLM, USBR, CPW), meeting facilitation, travel expenses

Task 2 – Perform monitoring (years 2-5) - \$115,611

- Technical team time (FLC, CMU, REW, CL), student hourly, Conservation Legacy strike teams, travel expenses

Task 3 – Reporting and communication (years 1-5) - \$28,082

- Technical team (FLC, CPW, REW) and students

Task 4 – Website/database development + maintenance (years 1-5) - \$48,473

- Website/database development, support and maintenance (FLC, Lotic Hydrological, REW, CPW)

Task 5 – Grant Administration (years 1-5) - \$24,152

- 15% indirect cost applied to WSRF and SWCD direct costs

Project partners have committed \$24,279 of in-kind match:

- Colorado Parks and Wildlife \$9,231– staff time Tasks 1-4
- Conservation Legacy \$416– staff time Task 2
- Bureau of Land Management \$1,696 – staff time Task 1
- US Bureau of Reclamation \$2,334 – staff time Task 1
- RiversEdge West \$6,478 - staff time Tasks 1-4
- Fort Lewis College \$4,124 - staff time Task 4

Cash match contributions of \$34,120 include:

- The Nature Conservancy (\$10,000 in year 1 - secured)
- Dolores Water Conservancy District (\$10,000 over four years - secured)
- Dolores River Restoration Partnership (\$1,500 in year 1 – secured)
- Catena Foundation (\$12,620 – requested)

CWCB WSRF grant funding includes:

- SW Basins Roundtable \$25,000
- Statewide funds \$140,617

The project partner contribution totals 24% of the total project cost. We request a waiver of the 25% requirement. The project has broad community support and multiple partners and will provide valuable information and support for decision-making processes on the Dolores River.

FLC typically charges 30% indirect costs for grants, but reduces that percentage for CWCB grants to 15%. We also request that 15% grant administration be included in the SWCD request. The total grant administration is 9% of the project total.

MATCHING REQUIREMENTS

Applicants must demonstrate that they are actively contributing to the project for which they are requesting funding. Any grant approval will be contingent upon the recipient ultimately demonstrating that they have secured funding for the full project cost.

In addition, applicants must also demonstrate that they will provide, through a cash contribution and/or the performance of in-kind services, at least 25% of the total project costs. See the guidelines and speak to staff for further clarification. Attach additional information if necessary.

Contributing Entity	Amount and Form of Match (note cash or in-kind)
CWCB WSRF State Fund	\$140,617 (cash)
CWCB WSRF SW Basin Roundtable	\$ 25,000 (cash)
Dolores Water Conservancy District	\$ 10,000 (cash)
Dolores River Restoration Partnership	\$ 1,500 (cash)
The Nature Conservancy	\$ 10,000 (cash)
CPW, CL, BLM, USBR, FLC, REW	\$ 24,279 (in-kind)
Catena (pending)	\$ 12,620 (cash)
Total Applicant Match (At Least 25%)	\$ 58,399 (24%)
Total Other Funding	\$165,617 (CWCB)
SWCD Request (Up to 50% of Project Cost)	\$ 19,550
Total Project Cost	\$243,566

WATER PROJECT BUDGET

Please provide a detailed project budget. You can use the template below or provide a more detailed table in an attachment.

Note: Please describe any payroll or legal costs, as well as any costs for administering this and other grants. SWCD will not fund those portions of the project.

Task/Materials Description	Funded By (Applicant, SWCD, Other)	Amount
*see attached budget		
Total Project Cost		\$243,566
Grant Administration Costs as a Percentage of Total Project Cost		15% of SWCD request 9% = total grant administration as % of total project costs of 5-year project

PREVIOUS SWCD AWARDS AND REQUESTS

Please list all previous request and awards from SWCD by year, amount, and project title. Please ensure that your entity does not exceed the five year limits on awards outlined in the [guidelines](#).

Previous funding from SWCD to FLC:

Campus Water Action Plan, Gigi Richard, 02/2019 – 12/2020, \$5,216

Animas River Microbial Study, Jennifer Lowell, 02/2018 - 12/2019, \$15,000

Rehabilitation of Old Fort Water, Beth LaShell, 07/2013 - 12/2014, \$94,103

My Water Comes from the..., Gary Gianniny, 01/2008 - 01/2012, \$20,000

APPLICANT LIABILITY OR INDEBTEDNESS

Please list any existing long-term liability (multi-year) or indebtedness that exceeds one thousand dollars. This might include bank loans, government agency loans, or bond issues. Please provide the lender name, address, remaining principal, annual payment, and maturity date. If any of these liabilities are currently in default or have been in default at any time in the past, please provide a detailed explanation. Attach a separate schedule as necessary.

FOR LOAN REQUESTS

Please identify all revenue sources for the applicant that would be available to repay SWCD should financial assistance be offered in the form of a loan.

APPLICANT SIGNATURE

By signing below, I acknowledge I have read the SWCD Grant Program guidelines, I understand the program requirements, and I submit this application, which is complete and true to the best of my knowledge.

Should the grant funds be awarded, I commit to requesting funds when they are needed, and using them only for the specific purpose and amount indicated in my application. SWCD requires written documentation of all committed project funds prior to disbursement.

I understand that if the project is under budget, there is an expectation that grant funding will be returned to SWCD in the proportion the project was under budget.

I understand that if the intended use of grant funds changes, board approval will be necessary. I also understand that SWCD may require additional documentation regarding the use of the funds

at its discretion.

I acknowledge SWCD's requirement for a final written report, including a description of work completed and a detailed accounting of the use of funds.

Gigi Richard
Signature

12/11/20
Date

Printed Name Gigi Richard

Please sign and submit the completed application and any supplemental information via email to lauras@swwcd.org or mail it to SWCD 841 E. 2nd Ave., Durango, CO 81301.

Do not hesitate to contact staff with any questions as you develop your application:
Laura Spann, 970-247-1302, lauras@swwcd.org

Dolores River Adaptive Management Support Project Budget

Task No.	Description	Year 1 2021	Year 2 2022	Year 3 2023	Year 4 2024	Year 5 2025	5-year Grant Total	CPW, Conserv Legacy, BLM, USBR, REW, FLC Match	SWCD Request	Cash Match	WSRF Funds (Basin & Statewide combined)
1	Monitoring planning	\$27,248	\$0	\$0	\$0	\$0	\$ 27,248	\$ 9,881		\$ 12,500	\$ 4,867
	Team leaders - coordinate meetings and draft protocol	\$4,937									
	Technical Team - participate in 3 2-hr zoom meetings + review/edit drafts + site visits	\$13,005									
	Aerial Imagery Analysis - FLC faculty + student	\$2,508									
	Travel for one field trip to sites by a subset of the technical team	\$1,440									
	Final protocol report development	\$1,959									
	Meeting Facilitation - Strategic by Nature	\$3,400									
2	Monitoring - Annual Cost	\$0	\$35,627	\$25,896	\$26,654	\$27,434	\$ 115,611	\$ 3,730		\$ -	\$ 111,881
	Training conservation corps strike teams		\$2,802	\$1,443	\$1,486	\$1,531					
	Conservation Corps - 3-person team x 2 weeks		\$6,798	\$7,002	\$7,212	\$7,428					
	FLC teams - faculty + students		\$13,320	\$7,799	\$8,033	\$8,274					
	CMU Teams - faculty + students		\$4,511	\$2,775	\$2,859	\$2,944					
	Supplies - GPS unit, measuring tape, printing data sheets, etc.		\$2,000	\$500	\$500	\$500					
	Travel to field sites		\$3,533	\$3,639	\$3,748	\$3,860					
	Data management		\$2,663	\$2,739	\$2,816	\$2,896					
3	Reporting and Communication	\$3,888	\$6,748	\$5,650	\$5,814	\$5,982	\$ 28,082	\$ 6,543		\$ -	\$ 21,539
	Produce annual monitoring + progress reports	\$470	\$3,027	\$3,117	\$3,211	\$3,307					
	Office Supplies/Printing		\$200	\$200	\$200	\$200					
	Articles and Story Map	\$3,418	\$3,521	\$2,333	\$2,403	\$2,475					
4	Website/database development + maintenance	\$33,520	\$3,574	\$3,681	\$3,792	\$3,906	\$ 48,473	\$ 4,124	\$ 17,000	\$ 21,620	\$ 5,729
	Website support + maintenance - FLC staff + students	\$8,520	\$3,574	\$3,681	\$3,792	\$3,906					
	Web consultant - Lotic Hydrological	\$25,000									
5	Grant Administration	\$3,787	\$5,581	\$4,655	\$4,802	\$5,328	\$ 24,152	\$ -	\$ 2,550		\$ 21,602
	15% Indirect cost - applied to WSRF & SWCD direct costs										
Total		\$68,443	\$51,530	\$39,882	\$41,061	\$42,649	\$243,566	\$24,279	\$19,550	\$34,120	\$165,617

Task 4 – Year 1 Detailed Budget

		Unit Cost	Hours	Total	FLC In-Kind Match	SWCD Request	Cash Match
4	Website/database development + maintenance						
	FLC Support						
	Gigi Richard, FLC (task 4.1-4.5)	\$47	80	\$3,760			\$ 3,760
	Additional Personnel (task 4.3-4.5)	\$50	20	\$1,000			\$ 1,000
	Student Hourly (task 4.4)	\$15	80	\$1,200			\$ 1,200
	FLC Staff - website support (task 4.3)	\$40	60	\$2,400	\$ 2,400		
	Web consultant - Lotic Hydrological						
	Tasks 4.2-4.4			\$18,500		\$ 17,000	\$ 1,500
	Task 4.5			\$6,500			\$ 6,500
	Task 4 Total			\$33,360	\$ 2,400	\$ 17,000	\$ 13,960
5	Grant Administration						
	15% Indirect cost - applied to SWCD direct costs			\$ 2,550		\$ 2,550	
	Task 5 Total			\$2,550	\$ -	\$ 2,550	\$ -
	Total			\$35,910	\$2,400	\$19,550	\$13,960

Letters of support from project partners, submitted
with CWCB proposal.

Chris Sturm
Stream Restoration Coordinator
Colorado Water Conservation Board
 [\(303\) 866-3441 ext. 3209](tel:(303)866-3441)
chris.sturm@state.co.us
1313 Sherman Street, Room 718
Denver, CO 80203

Dear Mr. Sturm,

On behalf of The Nature Conservancy, I am writing to support Four Corners Water Center at Fort Lewis College's grant proposal to the Colorado Water Conservation Board's Water Supply and Reserve Fund. The *Dolores River Adaptive Management Support Project* stems from goals developed by the collaborative Dolores River Native Fish Monitoring and Recommendation (M&R) Team, which is co-led by The Nature Conservancy, and will support the development and implementation of geomorphic monitoring along the Lower Dolores River.

This project encompasses a wide array of stakeholders that will develop a geomorphic monitoring protocol specific to the Dolores River by the Fall of 2021 that considers annual baseline monitoring methods as well as a component that can be activated when flows allow. The subsequent data will inform future adaptive management strategies for the lower Dolores River including native fish, vegetation, and overall ecological health. Furthermore, the geomorphic monitoring will be executed by students from Fort Lewis College and Colorado Mesa University and three-person crews from Southwest Conservation Corps that are able to respond quickly to changing flow conditions. Additionally, this proposal includes the development of a website and database to house monitoring data as well as other Dolores River related research and data.

Understanding the geomorphic and hydrologic interactions along the lower Dolores River will assist the M&R Team to make informed recommendations, provide education and stewardship opportunities to young people, and provide a platform for housing and viewing data related to the Dolores River. This work is critical to The Nature Conservancy's long-term investment in collaborative management on the Dolores River.

The Nature Conservancy will provide \$10,000 in cash match to this project, and we strongly encourage the Southwest Basin Roundtable to fully support the project.

Sincerely,



Celene Hawkins
Western Colorado Water Project Director
The Nature Conservancy

November 23, 2020

Chris Sturm
Stream Restoration Coordinator
Colorado Water Conservation Board
 [\(303\) 866-3441 ext. 3209](tel:(303)866-3441)
chris.sturm@state.co.us
1313 Sherman Street, Room 718
Denver, CO 80203

Dear Mr. Sturm,

On behalf of RiversEdge West and the Dolores River Restoration Partnership (DRRP), I am writing to enthusiastically support The Four Corners Water Center at Fort Lewis College's proposal to the Colorado Water Conservation Board's Water Supply and Reserve Fund. The *Dolores River Adaptive Management Support Project* is centered around goals developed by the collaborative Dolores River Native Fish Monitoring and Recommendation (M&R) Team and will support the development and implementation of geomorphic monitoring along the Lower Dolores River.

This project includes diverse and highly skilled participants that will develop a geomorphic monitoring protocol specific to the Dolores River by the Fall of 2021 that considers annual baseline monitoring methods as well as a component that can be activated when flows allow. The subsequent data will inform future adaptive management strategies for the lower Dolores River including native fish, vegetation, and overall ecological health. Furthermore, the geomorphic monitoring will be executed by students from Fort Lewis College and Colorado Mesa University and three-person crews from Southwest Conservation Corps that are able to respond quickly to changing flow conditions. Additionally, this proposal includes the development of a website and database to house monitoring data as well as other Dolores River related research and data.

Geomorphic monitoring compliments the DRRP's ecological, social, and management goals by enhancing vegetation monitoring currently being conducted by the DRRP and broadening the training of young adults working along the Dolores River and informing management decisions. RiversEdge West will commit \$7,978 to this project; \$2,000 for supplies, \$4,478 in-kind time for the Restoration Coordinator to participate in the protocol development, train and manage the "strike team" and help with reporting and outreach, and \$1,500 in cash towards the development of the Dolores River database. Please reach out with any questions.

Sincerely,



Shannon Wadas
Associate Director
RiversEdge West
rfulton@riversedgewest.org
970-799-3316

FEIN 27-0007315

www.RiversEdgeWest.org

P.O. Box 1907 | Grand Junction, CO 81502

Advancing the restoration of riparian lands through collaboration, education, and technical assistance.

Chris Sturm
Stream Restoration Coordinator
Colorado Water Conservation Board
[\(303\) 866-3441 ext. 3209](tel:3038663441)
chris.sturm@state.co.us
1313 Sherman Street, Room 718
Denver, CO 80203

Dear Mr. Sturm,

On behalf of the Four Corners Water Center at Fort Lewis College (FLC), I am writing to support the proposal for the *Dolores River Adaptive Management Support Project* to the Colorado Water Conservation Board's Water Supply and Reserve Fund.

Fort Lewis College will commit \$4,124 to this project as in-kind time for FLC staff to develop, support and host the new DoloresRiver.org website, which will host the database in Task 4 of the proposed project.

Sincerely,



Gigi A. Richard, PhD
Director
Four Corners Water Center
Fort Lewis College
garichard@fortlewis.edu
970-247-6561



Michael S. Brown
Director
Sponsored Programs & Research
Fort Lewis College
msbrown@fortlewis.edu
970-247-7695



Dolores Water Conservancy District

60 S. Cactus St. • P.O. Box 1150 • Cortez, CO 81321

Phone: 970-565-7562 • Fax: 970-565-0870

Email: dwcd@frontier.net

July 15, 2020

Dr. Gigi Richard
Director Four Corners Water Center

Re: DWCD Support for the Southwest Basin Roundtable and Statewide WSRF Grant
Request: Dolores River Monitoring and Data Project by Four Corners Water Center at
Fort Lewis College

Dear Dr. Richard:

The Dolores Project is a Bureau of Reclamation multi-purpose project located in southwest Colorado and operated by the Dolores Water Conservancy District (DWCD). The primary facility is McPhee Dam and Reservoir (McPhee) located just downstream from the Town of Dolores on the Dolores River.

During the Project development NEPA process Reclamation committed the second largest allocation to the downstream fishery. In concert, the Colorado Water Conservation Board was decreed one of the first instream flow rights covering 105 miles below McPhee to protect the released waters that provided perennial base flows to the lower Dolores after many dry decades. The ISF has since been extended another 33 miles almost to the State line.

As the Project operator DWCD remains an active participant of the science based collaborative efforts to monitor and align management of the Lower Dolores water resource, allocated pool and excess inflows, to protect and improve the downstream environment. Many federal, state, local government entities alongside private and NGO's partners have participated in this effort on the Dolores River Native Fish Monitoring & Recommendation Team (M&R Team). The M&R Team continues working to align partners and identify monitoring opportunities for improvement in the status of 3 sensitive native fish below McPhee consistent with the multi-agency "Range-wide Conservation Agreement for Roundtail Chub, Bluehead Sucker and Flannelmouth Sucker" involving multiple states, tribes, and resource management agencies

DWCD continues to support the M& R Team guided by the Mission Statement of the Dolores River Dialogue:

"To explore management opportunities, build support for and take action to improve the ecological conditions downstream of McPhee Reservoir while honoring water rights, protecting agricultural and municipal supplies, and the continued enjoyment of boating and fishing."

To move these efforts forward DWCD supports establishing a long-term relationship with the Four Corners Water Center at Fort Lewis College. These objectives will be served by your grant that develops a permanent Fort Lewis hosted website, creating the Lower Dolores monitoring protocol and conducting four years of confirming monitoring.

On July 9, 2020 the DWCD Board voted to provide \$10,000 financial support for the Dolores River Monitoring and Data Project by Four Corners Water Center grant request over the project term subject to annual appropriations as required by law.

Sincerely,



Kenneth W. Curtis III
General Manager
Dolores Water Conservancy District



COLORADO

Parks and Wildlife

Department of Natural Resources

Southwest Region Office
415 Turner Drive
Durango, CO 81303
P 970.375.6710 | F 970.375.6705

July 13, 2020

Chris Sturm
Stream Restoration Coordinator
Colorado Water Conservation Board
 [\(303\) 866-3441 ext. 3209](tel:3038663441)
chris.sturm@state.co.us
1313 Sherman Street, Room 718
Denver, CO 80203

Dear Mr. Sturm,

I am writing to support The Four Corners Water Center at Fort Lewis College's grant proposal to the Colorado Water Conservation Board's Water Supply and Reserve Fund. The Dolores River Adaptive Management Support Project stems from goals developed by the collaborative Dolores River Native Fish Monitoring and Recommendation (M&R) Team and will support the development and implementation of geomorphic monitoring along the Lower Dolores River.

CPW is charged with the management of aquatic and terrestrial wildlife species for Colorado's citizens and visitors. The Dolores River provides a popular trout fishery and important habitat for warm water native fish. Dolores River habitat viability remains critical for the persistence of both sportfish and native fish in the river below McPhee Reservoir, and building a sustainable geomorphic monitoring program through Fort Lewis College and the Four Corners Water Center will aid CPW in fishery management in the future. CPW also supports use of outdoor labs such as the Dolores to help educate and motivate future generations of natural resource stewards.

CPW has been participating in dialogues and implementing Dolores Project mitigation on the Dolores River since McPhee Reservoir was completed in 1986. This project includes additional stakeholders that will develop a geomorphic monitoring protocol specific to the Dolores River by the Fall of 2021. Implementation of the protocol will, over time, inform future adaptive management strategies for the lower Dolores River that should improve overall ecological health. Data management and presentation of findings via a website and database portal to house monitoring data as well as other Dolores River related research and data has been much discussed over the years but never realized. This is an important addition to this project.

Understanding the geomorphic and hydrologic interactions along the lower Dolores River will assist the M&R Team's collective understanding of habitat in and along the river, and will



continue to inform the recommendations this group provides to water managers. CPW also supports the development of a platform for housing and viewing data generated by the Project, and especially appreciates the educational and stewardship opportunities for young people that is imbedded in its design.

Best Regards,

A handwritten signature in black ink, appearing to read 'Cory Chick', with a large, stylized initial 'C' and a horizontal line extending to the right.

Cory Chick

SW Region Manager



IN REPLY REFER TO:

United States Department of the Interior

BUREAU OF RECLAMATION
Durango Field Division
185 Suttle Street, Suite 2
Durango, CO 81303-7911



WCD-RStump
2.2.1.06

VIA ELECTRONIC MAIL ONLY

Mr. Chris Sturm
Stream Restoration Coordinator
Colorado Water Conservation Board
Attn: Ms. Gigi Richard (garichard@fortlewis.edu)
1313 Sherman Street, Room 718
Denver, CO 80203

Dear Mr. Sturm:

On behalf of the Bureau of Reclamation, I am writing to support The Four Corners Water Center at Fort Lewis College's grant proposal to the Colorado Water Conservation Board's Water Supply and Reserve Fund. *Dolores River Adaptive Management Support Project* stems from goals developed by the collaborative Dolores River Native Fish Monitoring and Recommendation (M&R) Team and will support the development and implementation of geomorphic monitoring along the Lower Dolores River.

This project encompasses a wide array of stakeholders that will develop a geomorphic monitoring protocol specific to the Dolores River by the Fall of 2021 that considers annual baseline monitoring methods as well as a component that can be activated when flows allow. The subsequent data will inform future adaptive management strategies for the lower Dolores River including native fish, vegetation, and overall ecological health. Furthermore, the geomorphic monitoring will be executed by students from Fort Lewis College and Colorado Mesa University and three-person crews from Southwest Conservation Corps that are able to respond quickly to changing flow conditions. Additionally, this proposal includes the development of a website and database to house monitoring data as well as other Dolores River related research and data.

Understanding the geomorphic and hydrologic interactions along the lower Dolores River will assist the M&R Team to make informed recommendations, provide education and stewardship opportunities to young people, and provide a platform for housing and viewing data related to the Dolores River.

Reclamation is an active participant with other state and federal agencies to promulgate the persistence of roundtail chub, bluehead sucker, flannelmouth sucker and other native fish species

populations in the Dolores River below McPhee Dam through active adaptive management and monitoring. Reclamation is an active participant of the M&R Team and would benefit from geomorphic monitoring and data housing to help inform its decisions for flow management strategies below McPhee Dam.

Reclamation can commit \$2,334 of in-kind dollars for staff support to this project.

Sincerely,

Ed Warner
Area Manager

Chris Sturm
Stream Restoration Coordinator
Colorado Water Conservation Board
 [\(303\) 866-3441 ext. 3209](tel:(303)866-3441)
chris.sturm@state.co.us
1313 Sherman Street, Room 718
Denver, CO 80203

Dear Mr. Sturm,

On behalf of the Bureau of Land Management, I am writing to support The Four Corners Water Center at Fort Lewis College's grant proposal to the Colorado Water Conservation Board's Water Supply and Reserve Fund. *Dolores River Adaptive Management Support Project* stems from goals developed by the collaborative Dolores River Native Fish Monitoring and Recommendation (M&R) Team and will support the development and implementation of geomorphic monitoring along the Lower Dolores River.

This project encompasses a wide array of stakeholders that will develop a geomorphic monitoring protocol specific to the Dolores River by the Fall of 2021 that considers annual baseline monitoring methods as well as a component that can be activated when flows allow. The subsequent data will inform future adaptive management strategies for the lower Dolores River including native fish, vegetation, and overall ecological health. Furthermore, the geomorphic monitoring will be executed by students from Fort Lewis College and Colorado Mesa University and three-person crews from Southwest Conservation Corps that are able to respond quickly to changing flow conditions. Additionally, this proposal includes the development of a website and database to house monitoring data as well as other Dolores River related research and data.

Understanding the geomorphic and hydrologic interactions along the lower Dolores River will assist the M&R Team make informed recommendations, provide education and stewardship opportunities to young people, and provide a platform for housing and viewing data related to the Dolores River.

The BLM manages segments of the Dolores as a suitable Wild and Scenic River and is responsible for protecting the Outstandingly Remarkable Values until the segments are either designated as Wild and Scenic or released from suitability.

My organization is able to commit \$1696 (in-kind) to this project.

Regards,

Jedd Sondergard

Bureau of Land Management

Hydrologist, Uncompahgre Field Office



Chris Sturm
Stream Restoration Coordinator
Colorado Water Conservation Board
 [\(303\) 866-3441 ext. 3209](tel:(303)866-3441)
chris.sturm@state.co.us
1313 Sherman Street, Room 718
Denver, CO 80203

Dear Mr. Sturm,

On behalf of Conservation Legacy's Southwest Conservation Corps I am writing to support The Four Corners Water Center at Fort Lewis College's grant proposal to the Colorado Water Conservation Board's Water Supply and Reserve Fund. *Dolores River Adaptive Management Support Project* stems from goals developed by the collaborative Dolores River Native Fish Monitoring and Recommendation (M&R) Team and will support the development and implementation of geomorphic monitoring along the Lower Dolores River.

This project encompasses a wide array of stakeholders that will develop a geomorphic monitoring protocol specific to the Dolores River by the Fall of 2021 that considers annual baseline monitoring methods as well as a component that can be activated when flows allow. The subsequent data will inform future adaptive management strategies for the lower Dolores River including native fish, vegetation, and overall ecological health. Furthermore, the geomorphic monitoring will be executed by students from Fort Lewis College and Colorado Mesa University and three-person crews from Southwest Conservation Corps that are able to respond quickly to changing flow conditions. Additionally, this proposal includes the development of a website and database to house monitoring data as well as other Dolores River related research and data.

Understanding the geomorphic and hydrologic interactions along the lower Dolores River will assist the M&R Team make informed recommendations, provide education and stewardship opportunities to young people, and provide a platform for housing and viewing data related to the Dolores River.

The Southwest Conservation Corps has been an integral part of the Dolores River Restoration Partnership (DRRP) since its inception and is invested in restoring the riparian habitat along the Dolores River. The goals of the M&R team directly align with the DRRP restoration and adaptive management objectives, making this great opportunity for collaboration. This project aligns with SCC's mission is to *empower individuals to positively impact their lives, their communities, and the environment* by enabling participants to gain valuable skills in geomorphic monitoring while providing work that greatly benefits the communities and ecosystems of Southwest Colorado.

The Southwest Conservation Corps Watershed Programs Manager is able to commit \$416 of in-kind to this project for monitoring protocol development and training.

Regards,

A handwritten signature in black ink, appearing to read "Emily Kasyon", with a stylized flourish at the end.

Emily Kasyon

Watershed Programs Manager - Southwest Conservation Corps

ekasyon@conservationlegacy.org 970-903-0389



1309 East Third Avenue
PO Box 2461
Durango, CO 81302
970.259.3583
sanjuancitizens.org

July 12, 2020

Chris Sturm
Stream Restoration Coordinator
Colorado Water Conservation Board
1313 Sherman Street, Room 718
Denver, CO 80203

Dear Mr. Sturm,

As a Program Manager for San Juan Citizens Alliance (SJCA) I am expressing our organizational support The Four Corners Water Center at Fort Lewis College's grant proposal to the Colorado Water Conservation Board's Water Supply and Reserve Fund. *Dolores River Adaptive Management Support Project* stems from goals developed by the collaborative Dolores River Native Fish Monitoring and Recommendation (M&R) Team and will support the development and implementation of geomorphic monitoring along the Lower Dolores River.

This project encompasses a wide array of stakeholders that will develop a geomorphic monitoring protocol specific to the Dolores River by the Fall of 2021 that considers annual baseline monitoring methods as well as a component that can be activated when flows allow. The subsequent data will inform future adaptive management strategies for the lower Dolores River including native fish, vegetation, and overall ecological health. Furthermore, the geomorphic monitoring will be executed by students from Fort Lewis College and Colorado Mesa University and three-person crews from Southwest Conservation Corps that are able to respond quickly to changing flow conditions. Additionally, this proposal includes the development of a website and database to house monitoring data as well as other Dolores River related research and data. Understanding the geomorphic and hydrologic interactions along the lower Dolores River will assist the M&R Team make informed recommendations, provide education and stewardship opportunities to young people, and provide a platform for housing and viewing data related to the Dolores River.

San Juan Citizens Alliance has been involved, and has often taken the lead, in organizing public processes related to furthering the comprehensive management needs of the waters of the Dolores River including McPhee Reservoir which includes the pursuit of research that allows all interested parties to proceed forward with science-based decisions. SJCA will continue our involvement in the years ahead to support such activities including outreach to our 1,000+ members along with our continued involvement on the M&R Team.

Sincerely,

Jimbo Buickerood, Program Manager
Lands and Forest Protection Program
jimbo@sanjuancitizens.org
970 560-1111 Cell

2021 SWCD Grant Program – Staff Application Review (Date: 1-12-21 Follow-up Date: 1-14-21)

Applicant/Project: **Bonita Peak CAG (San Juan RC&D) - Animas River Data Collection & Standards Proposal Development**

<u>Total Project/Phase Cost</u>	<u>Amount of Request SWCD funds</u>	<u>Applicant Match (Cash / In-Kind)</u>	<u>Other Funding Sources</u>
\$45,893	\$15,000	\$16,660	CDPHE \$12,841; Train \$592; CDRMS \$800
	(less than 50% of total)	(at least 25% of total)	

<u>Project Type</u>	<u>Limits (Annual Max/5 Year Max Since 2018)</u>	<u>SWCD Request</u>
Education	\$5,000 / \$10,000	
Water Supply/Restoration	\$75,000 / \$150,000	
Public Forums/Workgroups	\$20,000 / \$40,000	\$15,000/\$32,158
Emergency	No limit specified	

Statutory Purposes of SWCD (C.R.S. 37-47-101)

Conservation of San Juan & Dolores rivers for storage, irrigation, mining, or manufacturing Purposes; Construction of reservoirs, ditches and works of irrigation and reclamation of lands not yet irrigated, as well as supplemental supply; Promotion of the health and general welfare of State of Colorado; and Safeguarding of water to which Colorado is equitably entitled.

If educational, does the project/program complement SWCD's existing efforts? **N/A**

Pre-Compact Water Right	Yes _____	No <u>X</u> _____
--------------------------------	-----------	--------------------------

<u>Application Information</u>	<u>Criteria Met:</u>
Date Received	X
Eligible Entity	X
Required Match	X
Less than 50% of Total Project Cost	X
Project Type, Description, Location	X
Anticipated Project Timeline	X
Detailed Project Expense Budget	X
No Legal, Payroll, or Grant Admin Costs supported by SWCD	X
Identification of Project Beneficiaries & Partners	X
Summary of Previous SWCD Funding Requests and Awards	X
Not For a Project That Was Already Completed	X
Use of Funds in 2021	X
Has Secured Remaining Project Funding	X – CDPHE \$12,841; Train \$592; CDRMS \$800
Purposes of District	X
-Pre-Compact	
-Compact Development & Entitlement	X
-Health & Welfare	X
-Irrigation & Storage	X

Staff Recommendation: Approve in the reduced amount of \$13,200. The reduction in recommended funding for this grant is due to the overall exceedance of grant requests in the Public Forums/Workshops/Studies category. Applicant Grant History

Date	Name	Notes	Amount
2021	Bonita Peak CAG (San Juan RC&D)	Animas River Data Collection and Standards Proposal Development <i>(Requested)</i>	<i>\$15,000</i>
2020	Bonita Peak CAG (San Juan RC&D)	Animas River Water Quality Data Update & Analysis	\$17,158
		<i>Note: Bonita Peak CAG also receives dedicated SWCD annual funding to support operations in the amount of \$5,000.</i>	\$32,158

Director Notes/Questions:

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THE SOUTHWESTERN WATER CONSERVATION DISTRICT

Developing and Conserving the Waters of the
SAN JUAN AND DOLORES RIVERS AND THEIR TRIBUTARIES
IN SOUTHWESTERN COLORADO

GENERAL APPLICATION FOR FINANCIAL ASSISTANCE

SWCD SUBMITTAL CHECKLIST	
Required, Please Initial	
X	I acknowledge I have read and understand the 2021 SWCD Grant Program Guidelines .
X	The financial request to SWCD does not exceed 50% of the total project cost.
X	The applying organization is funding at least 25% of the total project cost.
X	The request is for funds to be used in 2021, for a project to be completed in 2021.
X	I understand that SWCD does not fund payroll, legal, or grant administration costs.
X	I have included a <u>detailed</u> project expense budget.
X	I have included a <u>detailed</u> project funding budget.
X	I have consulted with SWCD staff to ensure all minimum criteria has been met.
Optional	
	Feasibility and/or Engineering Studies
	Maps
	Photos
	Letters of Support

WATER ACTIVITY SUMMARY			
Date of Submittal	12/10/20		
Type of Request	Grant X	Loan	Grant/Loan Package
Project Name	Animas River Data Collection and Standards Proposal Development		
Applicant	San Juan Resource Conservation and Development Council/Bonita Peak CAG		
Project Location (River Basin)	Animas River Basin		
Amount of Request	\$15,000		
Total Project Cost	\$45,893		
Applicant Match	\$16,660		
Year for Use of Funds	2021		

WATER ACTIVITY CATEGORY		
X	Limit	Category
	\$75,000	Water Supply/Watershed Restoration: Water supply or watershed restoration projects, including design, engineering, and construction
X	\$20,000	Public Forums/Studies: Public forums, work groups, studies, planning efforts
	\$5,000	Education: Teaching seminars, workshops, and related programs
	N/A	Emergency: Situations arising from catastrophic or unforeseen events
<p>Note: The amount of funding each applicant may receive is further limited by the funding received in any given five-year period, as well as the total amount allocated to each category by the board. Review the guidelines carefully and consult staff if needed (970-247-1302).</p>		

APPLICANT INFORMATION	
Name of Authorized Entity	San Juan RCD/Bonita Peak CAG
Type of Qualified Entity (See Guidelines)	501 (c)(3)
Mailing Address	P.O. Box 1006, Durango, CO 81302
Federal ID Number	74-2408579
Contact Person	Jessica Laitsch
Position/Title	Administrator
Phone Number	970-382-9371
Email	sjrcd@hotmail.com

APPLICANT DESCRIPTION
<p>Please provide a brief description of the applying entity. For ditch companies, please provide the number of shareholders, acres served, and annual assessment.</p> <p>The San Juan Resource Conservation and Development Council is a Durango-based 501(c)(3) that acts as a fiscal agent for many community groups. The Bonita Peak CAG is a Community Advisory Group (CAG) as described under CERCLA and has been recognized by EPA to serve as a liaison between the local community and EPA and its partnering governmental agencies regarding the Bonita Peak Mining District (BPMD) Superfund site. The CAG has fifteen members representing a wide variety of interests in both La Plata and San Juan counties. Four of the members were appointed by local governments including La Plata and San Juan Counties, the City of Durango, and the Town of Silverton. The CAG has developed a mission statement and operating procedures to guide its activities. It has a large email list, a website and holds monthly meetings. Meetings usually attract between 30–50 participants including federal, state, and local governments; mining companies; and interested citizens.</p>

WATER ACTIVITY DESCRIPTION
<p>Please provide a narrative description of the activity's physical location, as well as its purpose and benefits. Provide a description of the water supply source to be utilized or the water body affected by the project. If possible, include measureable results such as acres served, watersheds impact, types of crops, number of taps, length of ditch improvements, length of pipe installed, area of habitat improvements, or students impacted. Photos, maps, or other graphics can be inserted here or attached.</p> <p>Please explain how the project assists SWCD in furthering its statutory mission to protect, conserve, use, and develop the water resources of southwestern Colorado, as well as safeguard all waters to which Colorado is entitled. Specifically, if you project enhances or preserves any pre-compact water rights, please describe the quantities, appropriation dates, and adjudication dates of those rights. For help acquiring water rights information, call DWR (970-247-1845).</p> <p>The project is to continue collecting water quality samples in the Animas River Canyon and analyze all existing Animas River surface water data to develop a water quality standards proposal for the upper part of the basin. The CAG has sampled monthly in the canyon over the past year. We sample every month below the confluence with Cascade Creek. We sample above Crazy Woman Gulch in April-December and below the confluence with Elk Creek in May-December. We anticipate this sampling effort will continue for at least a couple more years.</p>

The standards proposal, if adopted by the Colorado Water Quality Control Commission (WQCC), will serve as the goals for improving water quality at the Superfund site. Without this project, the local community in the Animas Basin is dependent on whatever site goals EPA and other federal agencies develop. In addition, one of the main impetuses for developing a proposal is to push stakeholders to fully analyze and understand information already collected, and to shift the focus of this Superfund project from mostly study to mostly actual remediation. It has been reported that EPA has spent \$75 million at this Superfund site, and there is little to show in terms of water quality improvements. The project fits into SWCD's statutory mission to protect local water resources and the water uses for which those resources are developed.

Over the past year, the CAG has pulled together the metal-related water quality data from EPA, Colorado River Watch, Sunnyside Gold Corporation, USGS, and the CAG itself. This is being added to all the data pulled together by the Animas River Stakeholders Group over the past twenty-five years. (As a side note, SWCD continued support of gauging stations around Silverton and at Tall Timbers have been critically important to our work.) We are still waiting for access to data that has been collected in recent years by BLM and the U.S. Forest Service. We have been analyzing data, particularly in the Animas Canyon, and have determined what metal reductions would be necessary to meet all aquatic life standards at certain locations downstream of Silverton. We have also uploaded data collected by the CAG into EPA's database at their request.

The next steps are to analyze data in other locations, estimate what loading reductions might be feasible at particular mine sites and develop a water quality standards proposal. Clearly any proposal will require a great deal of communication and coordination with all the various stakeholders which we intend to do.

WATER PROJECT TIMELINE

Please provide a narrative description of the timeline for the project's major tasks and/or a detailed outline.

In order for a water quality proposal to be considered by WQCC at their June 2022 San Juan Basin rulemaking, most of the details of the proposal need to be determined by late Fall 2021. Materials needed for a public notice of the hearing must be submitted in January 2022. The formal hearing process would begin in February 2022. Therefore, the CAG needs to develop enough information for detailed discussion with stakeholders by the beginning of Summer 2021.

WQCC holds rulemakings in this part of the state every five years. We hope that after this hearing, water quality goals for the Superfund site will be determined and that the CAG's time and involvement in the overall Superfund process will diminish.

ENGINEERING AND LEGAL FEASIBILITY

Will the Project require the acquisition of an additional water right or change of existing water rights? If yes, please explain.

N/A

Will the Project require state or federal regulatory permits of any type? If yes, please explain.

N/A

Please list below and attach to this application any feasibility studies or investigations that have been completed or are now in progress for the proposed project.

The CAG has collected 63 samples over the past year. We have detailed spreadsheets of analysis comparing the data to water quality standards and the necessary metal reductions needed to meet those standards (Not Attached). We made a Powerpoint presentation based upon that data and presented it to all the various stakeholders this past October (Attached). We also developed a Sampling and Analysis Plan (Attached). This past November for a WQCC hearing, we sent a letter outlining our thoughts on a water quality standards proposal (Attached).

WATER ACTIVITY BUDGET

Please provide any narrative description of the project expense and funding budget that is necessary. Please describe in-kind contributions, if any, and the anticipated decision date for those funding requests that have not already been approved.

With the exception of the SWCD request, all other funding has been approved.

The \$5,000 from Trout Unlimited is part of the Bonita Peak CAG's budget. TU is a CAG member. These funds will be used mostly for communication and coordination with various stakeholders through operation and maintenance of the CAG's website, email list, media advertisements, media coordination, and travel. It may also be used to cover some additional lab costs if needed.

The CAG's In-Kind Contribution:

The CAG will be collecting data monthly in the Animas Canyon at three locations and at Burro Bridge in Mineral Creek. (Only one Animas Canyon location is accessible throughout the winter). Collection of samples at Burro Bridge requires a short ski in winter.

Sample collection:

Cascade: 12 trips x 2 people x 6.5 hours x \$20/hr. = \$3,120

Below Elk Creek: 7 trips x 2 people x 6.5 hours x \$20/hr. = \$1,820

Burro Bridge: 12 trips x 1 person x 2 hours x \$20/hr. = \$480

Total = \$5,420

Other in-kind contributions by the CAG will be volunteer time from a technical committee to oversee the data analysis and proposal development and time for the entire CAG to digest and understand the proposal to be able to inform each member's various constituencies. Actual analysis and proposal development funded by SWCD will be completed in-house by CAG members.

Technical Committee:

4 meetings x 6 people x 3 hours x \$45/hr. = \$3,240

General review in a Public Forum:

4 meetings x 15 people x 2 hours x \$25/hr. = \$3,000

Overall Total = \$11,660

MATCHING REQUIREMENTS

Applicants must demonstrate that they are actively contributing to the project for which they are requesting funding. Any grant approval will be contingent upon the recipient ultimately demonstrating that they have secured funding for the full project cost.

In addition, applicants must also demonstrate that they will provide, through a cash contribution and/or the performance of in-kind services, at least 25% of the total project costs. See the guidelines and speak to staff for further clarification. Attach additional information if necessary.

Contributing Entity	Amount and Form of Match (note cash or in-kind)
Colo. Dept. of Public Health & Environment	\$12,841 cash
SWCD	\$15,000 cash
Trout Unlimited	\$5,000 cash
Durango-Silverton Narrow Gauge Railroad	\$592 in-kind
Div. of Reclamation, Mining, and Safety	\$800 cash
Bonita CAG	\$11,660 in-kind
Total Applicant Match (At Least 25%)	\$16,660
Total Other Funding	\$14,233
SWCD Request (Up to 50% of Project Cost)	\$15,000
Total Project Cost	\$45,893

WATER PROJECT BUDGET

Please provide a detailed project budget. You can use the template below or provide a more detailed table in an attachment.

Note: Please describe any payroll or legal costs, as well as any costs for administering this and other grants. SWCD will not fund those portions of the project.

Task/Materials Description	Funded By (Applicant, SWCD, Other)	Amount
Collect Samples (Animas Canyon, Mineral Cr.)	Bonita Peak CAG	\$5,420
Lab Costs for Samples	CDPHE	\$12,841
Winter Transportation for Sample Collection	Dgo-Silverton RR	\$592
Purchase pH-Conductivity Meter	DRMS	\$800
Data Analysis and Proposal Development	SWCD	\$15,000
Technical Committee Oversight	Bonita Peak CAG	\$3,240
General CAG Meeting Time to Review	Bonita Peak CAG	\$3,000
Communication and Coordination	Trout Unlimited	\$5,000
Total Project Cost		\$45,893
Grant Administration Costs as a Percentage of Total Project Cost		3%

PREVIOUS SWCD AWARDS AND REQUESTS

Please list all previous request and awards from SWCD by year, amount, and project title. Please ensure that your entity does not exceed the five year limits on awards outlined in the [guidelines](#).

2020: \$17,158 - Animas River Water Quality Data Update and Analysis

APPLICANT LIABILITY OR INDEBTEDNESS

Please list any existing long-term liability (multi-year) or indebtedness that exceeds one thousand dollars. This might include bank loans, government agency loans, or bond issues. Please provide the lender name, address, remaining principal, annual payment, and maturity date. If any of these liabilities are currently in default or have been in default at any time in the past, please provide a detailed explanation. Attach a separate schedule as necessary.

N/A

FOR LOAN REQUESTS

Please identify all revenue sources for the applicant that would be available to repay SWCD should financial assistance be offered in the form of a loan.

N/A

APPLICANT SIGNATURE

By signing below, I acknowledge I have read the SWCD Grant Program guidelines, I understand the program requirements, and I submit this application, which is complete and true to the best of my knowledge.

Should the grant funds be awarded, I commit to requesting funds when they are needed, and using them only for the specific purpose and amount indicated in my application. SWCD requires written documentation of all committed project funds prior to disbursement.

I understand that if the project is under budget, there is an expectation that grant funding will be returned to SWCD in the proportion the project was under budget.

I understand that if the intended use of grant funds changes, board approval will be necessary. I also understand that SWCD may require additional documentation regarding the use of the funds at its discretion.

I acknowledge SWCD's requirement for a final written report, including a description of work completed and a detailed accounting of the use of funds.



Signature

12/10/20
Date

Printed Name Peter Butler

Please sign and submit the completed application and any supplemental information via email to lauras@swwcd.org or mail it to SWCD 841 E. 2nd Ave., Durango, CO 81301.

Do not hesitate to contact staff with any questions as you develop your application:
Laura Spann, 970-247-1302, lauras@swwcd.org

Bonita Peak CAG

Colorado Water Quality Control Commission
Colorado Dept. of Public Health and Environment
4300 Cherry Creek Drive South
Denver, CO 80246

Oct. 23, 2020

RE: San Juan River and Dolores River Basins, Regulation 34, Issues Scoping Hearing

Dear Commissioners:

The Bonita Peak Community Advisory Group (CAG) is an officially recognized community group under CERCLA that acts as a liaison between a diverse set of local stakeholders and EPA and its partnering agencies - CDPHE, U.S. Forest Service (FS), and U.S. Bureau of Land Management (BLM) - regarding the Bonita Peak Mining District (BPMD) Superfund site. The CAG is considering proposing use classification and water quality standards changes for segments in the Animas River Basin directly impacted by the site for the June 2022 rulemaking.

There are hundreds of inactive and abandoned mines in the upper part of the Animas River watershed. Some of these sites discharge high concentrations of metals that affect water quality and aquatic life. For twenty-five years, the Animas River Stakeholders Group (ARSG) led efforts to characterize and remediate mine sites in the basin to improve water quality. This ad hoc group included federal, state and local government agencies, mining companies, property-owners, environmental groups, and other local citizens. After seven years of study, ARSG proposed water quality standards in 2001 based upon its Use Attainability Analysis which detailed feasible metal reductions at a number of mine sites. These recommendations were subsequently adopted by WQCC, and the Commission has only made minor changes to the standards since.

Over the years, ARSG and its partners completed approximately 60 mine remediation projects, frequently using Section 319 funding, before EPA contractors thrust the Animas River into the national spotlight with the 2015 Gold King Mine spill. A year after the spill, the upper part of the Animas River Basin was listed as a Superfund site. A number of current CAG members participated in ARSG.

Over the past four years, EPA has reportedly spent \$75 million at the BPMD site, mostly conducting studies and gathering information. This includes development of a comprehensive Baseline Ecological Risk Assessment that delineates aquatic habitat issues throughout the BPMD and includes numerous macroinvertebrate sampling and calculation of MMI scores, fish electroshocking, and determination of biological potential of different stream segments. EPA has also conducted widespread synoptic water quality sampling during high and low flow each year. They have treated the Gold King Mine drainage for the past four years and recently shut off the drainage from the Red & Bonita Mine for three months for testing a bulkhead. These two actions essentially removed the largest two point-sources of metals in the Animas River Basin. Data collected related to these actions will help determine what is feasible in terms of metal reductions.

In addition, River Watch has been collecting monthly water samples at five gaging stations in the BPMD since the 1990's. Sunnyside Gold Corp. has spent \$12 million over the past four years characterizing the remediated Mayflower tailings. The CAG has voluntarily been hiking into the Animas Canyon just below the BPMD every month to collect water samples in areas where there was previously little data. And both the FS and BLM have done sampling within their jurisdictions.

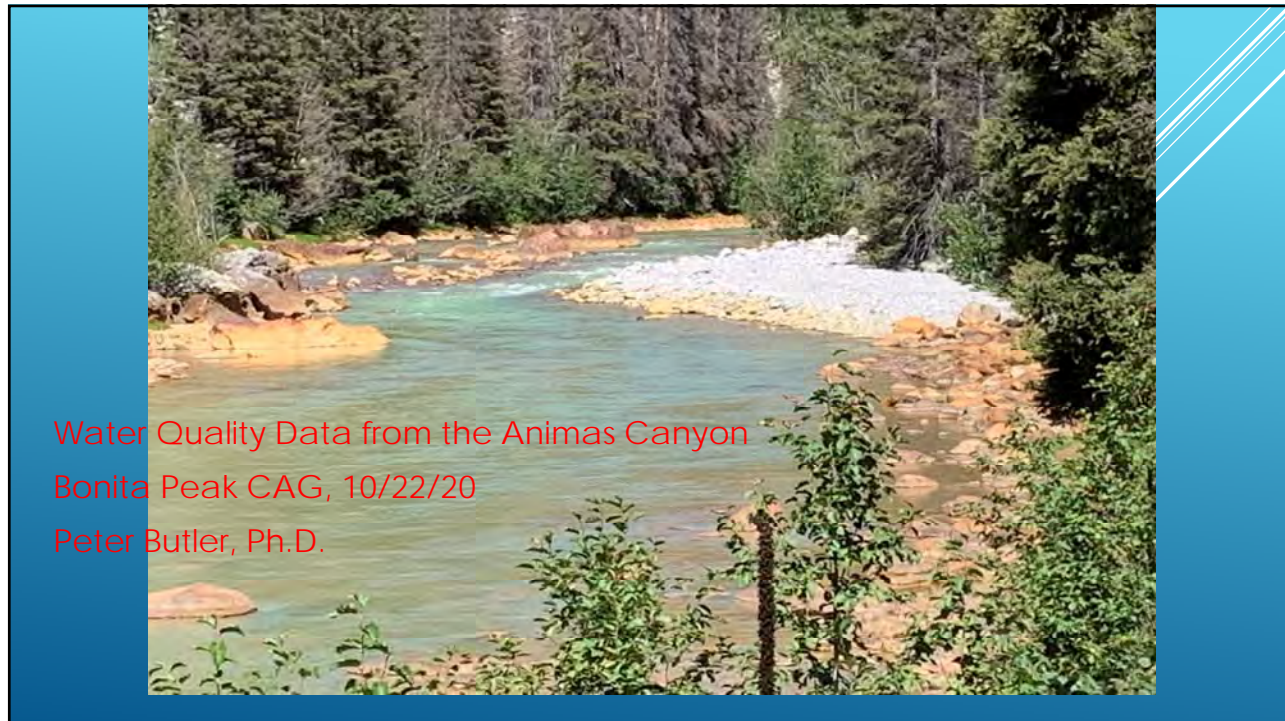
Given all this work, the CAG believes it is time to revisit the standards that have been in place for past twenty years. Overall, EPA's work has led to an enormous data set and has ruled out a wide range of possible environmental and human health risks that could be of concern at a large, historic mining district. With what's been learned, the CAG doesn't anticipate that proposed changes to water quality standards will be drastically different to what is in place today. However, the 2022 rulemaking will provide a juncture in the Superfund process for development of specific water quality goals and for a shift in focus of various government agencies and potential responsible parties from an emphasis on investigation to one on remediation and actual water quality improvements. It will also provide a level of certainty to local communities as to what can be accomplished at this site in terms of water quality and what remediation expectations may be for property owners of mine sites.

The CAG plans to be available at the Issues Scoping Hearing if the Commission has any questions.

Respectfully submitted,

A handwritten signature in cursive script that reads "Peter Butler". The ink is dark and the signature is written on a light-colored background.

Peter Butler, Ph.D.
Chairman, Bonita Peak CAG



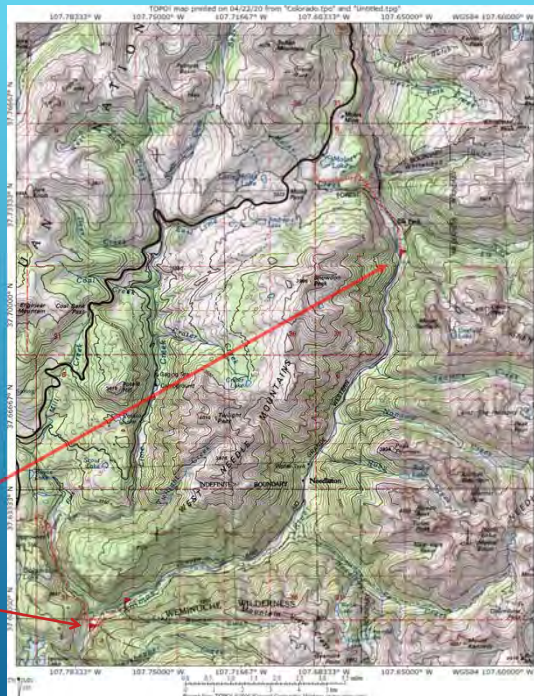
1

PURPOSE OF SAMPLING

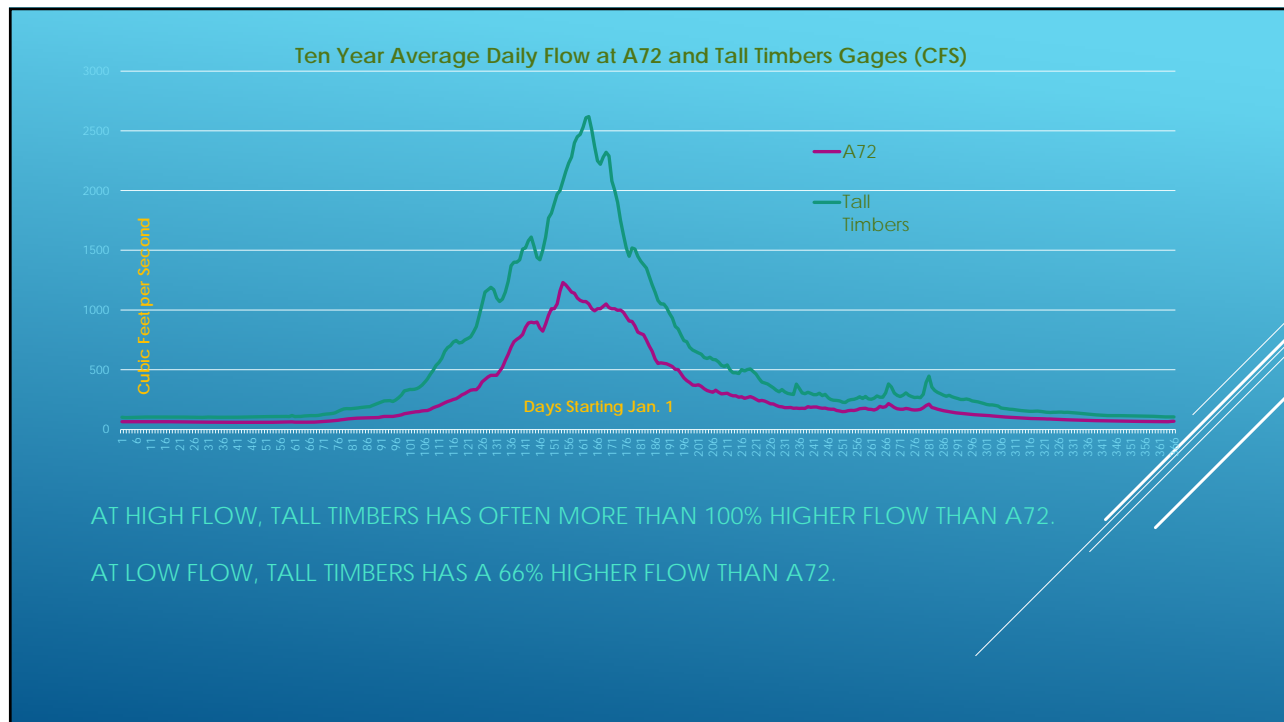
- ~LITTLE DATA OVER THIRTY MILES BELOW SILVERTON IN THE CANYON.
- ~SAMPLE BELOW EACH OF THE LARGEST THREE TRIBUTARIES.
- ~THERE IS A USGS GAGE BELOW THE CONFLUENCE WITH CASCADE CREEK.
- ~WINTER ACCESS AT CASCADE.

Below Elk Creek

Below Cascade Creek and
below Needle Creek



2



3

METALS OF CONCERN

- ▶ CAG samples for total aluminum, iron, and lead; and for dissolved lead, cadmium, copper, manganese, zinc, and dissolved organic carbon (DOC). Generally, we have not seen any other metals above standards instream in the BPMD.
- ▶ No CAG samples have shown dis. copper, manganese, or lead near or above aquatic life standards. (Dis. lead has always been below lab reporting limits and tot. lead has not come close to exceeding state water supply standards.)
- ▶ Some individual samples of cadmium slightly exceed Table Value Standards (TVS).
- ▶ Some individual samples of aluminum and iron greatly exceed TVS.
- ▶ Many zinc samples exceed both chronic and acute TVS.

4

METAL LOAD AT CASCADE (LBS/DAY)

	<u>Aluminum</u>	<u>Iron</u>	<u>Manganese</u>	<u>Copper</u>	<u>Cadmium</u>	<u>Lead</u>	<u>Zinc</u>
Low Flow Load (lbs/day)	550	820	340	0.5	0.5	1.2	160
High Flow Load (lbs/day)	6000	9000	1800	33	4.7	62	1200

Approximately ½ a small car at low flow and three full-size pickups at high flow.

5

LOW FLOW SYNOPTIC SAMPLING, OCT. 16, 2019

- Samples taken at A72, Elk Park footbridge, A73RB, Cascade, and Bakers Bridge.
- Given the increase is dilution, one would expect metal concentrations at Cascade to be 63% of they were at A72.

With flow difference expect concentrations to be 63%	<u>Cadmium</u>	<u>Manganese</u>	<u>Zinc</u>	<u>Aluminum</u>	<u>Iron</u>	<u>Tot. Lead</u>
	62%	54%	67%	37%	31%	36%

Note: Because of low hardness at Bakers Bridge, it is possible to meet zinc stds at Cascade but not at Bakers Bridge.

6

EFFECT OF RED & BONITA BULKHEAD CLOSURE AT CASCADE

	Flow	Zinc Load	Aluminum Load	Iron Load	Lead Load
Date	(cfs)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)
9/6/2019	243	212	684	700	3.4
8/3/2020	296	192	602	523	1.6
Difference		20	82	177	1.8
10/3/2019	136	163	501	574	1.9
9/2/2020	138	118	310	340	1
Difference		45	191	234	0.9
11/2/2019	99	157	550	817	1.2
10/9/2020	94.8	128	416	430	0.7
Difference		29	134	387	0.5

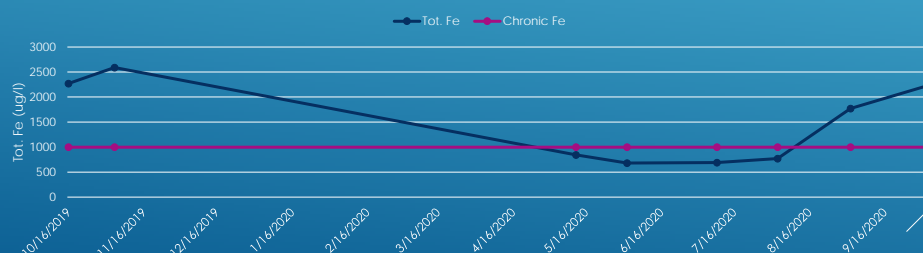
7

IRON BELOW CASCADE CR. AND BELOW ELK CR.


TOTAL IRON BELOW CASCADE CONFLUENCE WITH ANIMAS RIVER



TOTAL IRON BELOW ELK CREEK CONFLUENCE WITH ANIMAS RIVER

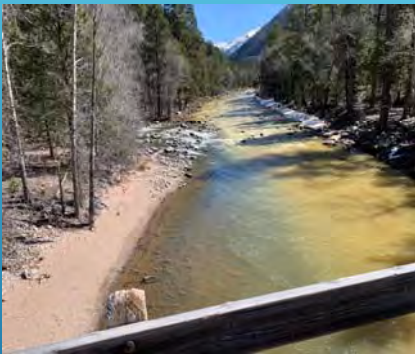


8




ICE IN FEBRUARY BELOW CASCADE

Confluence with Cascade in April




At Crazy Woman in April



9

ASSESSING IRON AND TVS

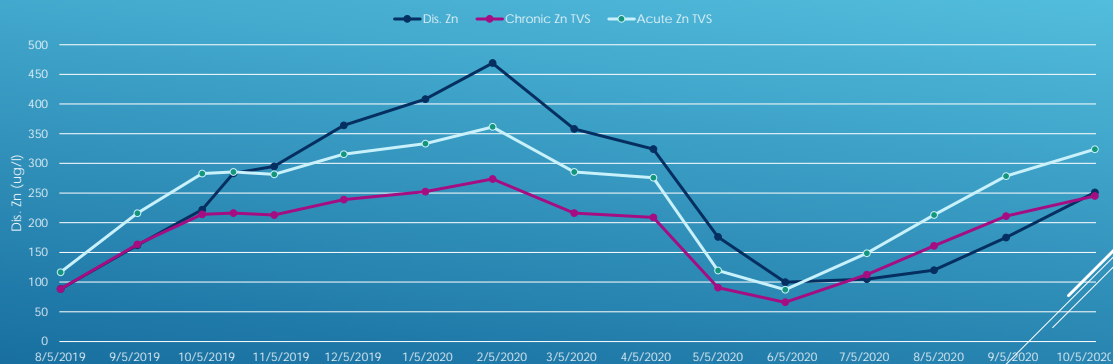
<u>Below Cascade</u>		<u>Below Elk Creek</u>	
<u>Date</u>	<u>Tot. Iron (ug/l)</u>	<u>Date</u>	<u>Tot. Iron (ug/l)</u>
8/5/2019	303		
9/6/2019	534		
10/3/2019	783		
10/16/2019	919	10/16/2019	2270
11/2/2019	1530	11/4/2019	2590
12/1/2019	1230		
1/4/2020	379		
2/1/2020	2810		
3/6/2020	2120		
4/8/2020	3290		
5/5/2020	1190	5/12/2020	884
6/2/2020	773	6/2/2020	681
7/6/2020		7/9/2020	691
8/3/2020	328	8/3/2020	771
9/2/2020	457	9/2/2020	1770
10/9/2020	841	10/8/2020	2290
50th percentile =	841		1327
TVS=	1000		1000



10

ZINC BELOW CASCADE CREEK

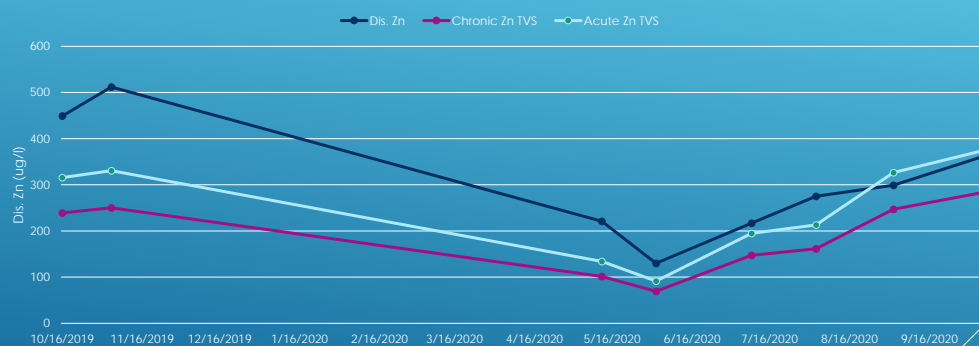
DISSOLVED ZINC BELOW CASCADE CONFLUENCE WITH ANIMAS RIVER



11

ZINC BELOW ELK CREEK

DISSOLVED ZINC BELOW ELK CREEK CONFLUENCE WITH ANIMAS RIVER



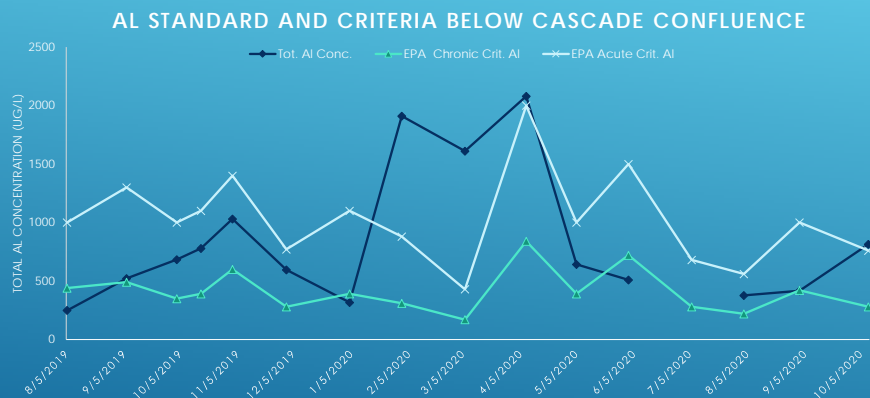
12

ALUMINUM STANDARD AND CRITERIA

- ▶ Colorado's Aluminum Standard uses a 50th percentile of Total Aluminum
- ▶ ~If pH is less than 7.0, the chronic standard is 87 ug/l.
- ▶ ~If pH is 7.0 or greater, the chronic standard is a hardness-based equation capped at a top hardness of 220 mg/l CaCO₃.
- ▶ EPA's Recent Aluminum Criteria uses Total Aluminum
- ▶ ~Both acute and chronic are based on equations using pH, hardness, and DOC.
- ▶ ~Colorado has not adopted EPA's Criteria.
- ▶ New Mexico uses a hardness based equation standard but filters the sample with a 10 microfilter first.
- ▶ ~NM argues that aluminum attached to clay particles is not bioavailable.
- ▶ ~The filtering can remove 70% - 90% of the total aluminum.
- ▶ ~Generally this standard is much more lenient than Colorado's or EPA's Criteria.

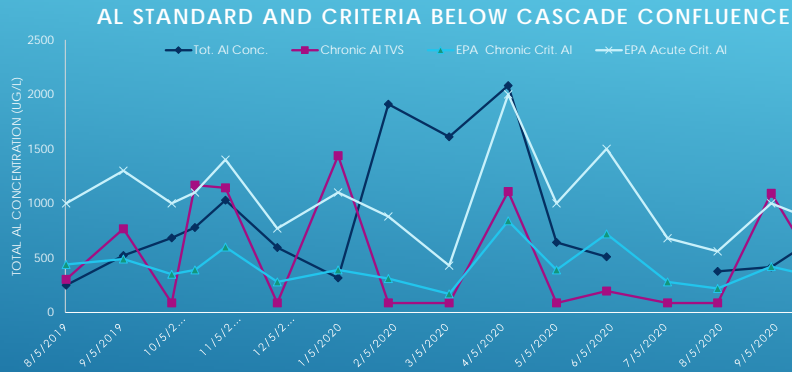
15

ALUMINUM BELOW CASCADE CREEK



16

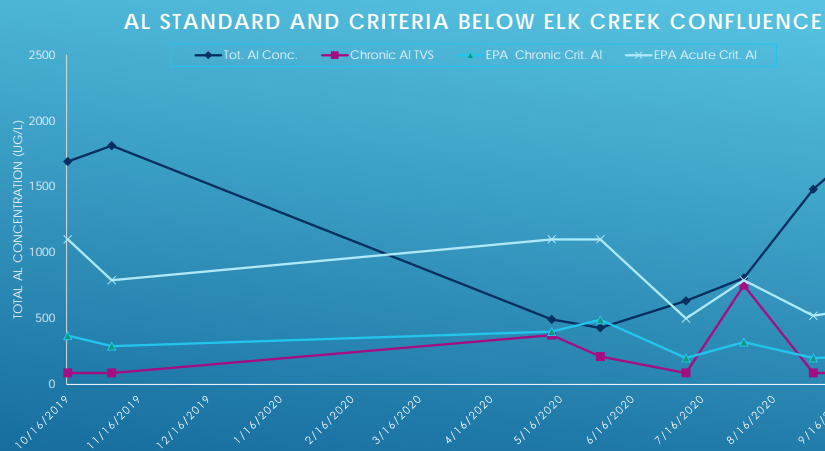
ALUMINUM BELOW CASCADE CREEK



At low hardness, Colo.'s equation std is more stringent than EPA's criteria.
At high hardness, Colo.'s equation std is less stringent than EPA's criteria.

17

ALUMINUM BELOW ELK CREEK



18

ASSESSING ALUMINUM AND TVS

Below Cascade		Below Elk Creek	
Date	Tot. Aluminum (ug/l)	Date	Tot. Aluminum (ug/l)
8/5/2019	249		
9/6/2019	522		
10/3/2019	683		
10/16/2019	779	10/16/2019	1690
11/2/2019	1030	11/4/2019	1810
12/1/2019	595		
1/4/2020	317		
2/1/2020	1910		
3/6/2020	1610		
4/8/2020	2080		
5/5/2020	642	5/12/2020	492
6/2/2020	510	6/2/2020	429
7/6/2020		7/9/2020	633
8/3/2020	377	8/3/2020	807
9/2/2020	416	9/2/2020	1480
10/9/2020	814	10/8/2020	2030
50th percentile =	642		1144
TVS=	926		955

pH below Elk Creek on average is lower than 7.0, so standard is 87 ug/l.
Only showing what an assessment of Al would look like if pH were > 7.0.

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QUESTIONS ?



20

BONITA PEAK COMMUNITY ADVISORY GROUP

SAMPLE AND ANALYSIS PLAN FOR TEMPORAL SURFACE WATER MONITORING

ANIMAS RIVER BASIN

BONITA PEAK MINING DISTRICT SUPERFUND SITE

SAN JUAN COUNTY, COLORADO

AUGUST 2020

Prepared by: Peter Butler, Ph.D.

Chair, Bonita Peak CAG

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1.0 INTRODUCTION

The Bonita Peak Community Advisory Group (CAG) was formed in 2019 to provide local communities in San Juan and La Plata counties a forum in which to engage U.S. Environmental Protection Agency (EPA) and its partnering agencies with regards to activities pertaining to the Bonita Peak Mining District (BPMD) Superfund site in Colorado. CAGs are specifically recognized under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as a mechanism for community engagement at Superfund sites, and the Bonita Peak CAG has been officially recognized by EPA as a CAG for the BPMD site. The CAG has representatives from a wide variety of local constituencies in the Animas River watershed within Colorado including environmental, recreational, agricultural, and mining. It also has representatives appointed by San Juan and La Plata counties, and the City of Durango and Town of Silverton. Some of the representatives have twenty-five years of experience with water quality and mine site remediation in the Animas River watershed.

The CAG is planning on collecting monthly surface water data at four locations in the BPMD to give a temporal water quality picture that is currently not available. For example, because of its relative inaccessibility, little water quality data has been collected in the thirty-mile-long Animas Canyon between Silverton and Bakers Bridge near Hermosa. There have been sporadic sampling events in the canyon conducted by the Animas River Stakeholders Group (ARSG) and by EPA, but those events occurred at least a year or several years apart. In addition, EPA and U.S. Geological Survey (USGS) deployed mini-sippers at several locations in the canyon a few years ago which collected daily metal concentration data. While useful as a screening tool, the mini-sippers use a 10-micron filter, so results are classified as neither total or dissolved metal concentrations and cannot be compared to water quality standards. The CAG plans to sample three locations in the Animas Canyon.

The other location the CAG plans to sample monthly is upper Mineral Creek, a tributary to the Animas River. Monthly samples will be taken at Burro Bridge. Data has been collected at this location by the Colorado Water Quality Control Division (WQCD) in the early 1990's, USGS in the late 1990's (Runkel and Kimball) and ARSG in 2017. Data shows very significant reductions in zinc, cadmium, and copper over the time period coinciding with a number of upstream mine remediation projects, including approximately a dozen 319 projects funded through WQCD.

This sampling effort was initiated by the CAG and sample collection is done by volunteers. Lab costs are covered by the Colorado Department of Public Health and Environment. While the data should be useful in EPA's remedial investigations at the Superfund site, this effort is separate from EPA's work.

2.0 OBJECTIVES

The objective of this Sample and Analysis Plan is to collect sufficient monthly water quality data in priority stream reaches identified by EPA (Introducing EPA Goals) where water quality potentially could be improved by mine remediation to support additional aquatic life, but for which little spatial and temporal data is available, to determine if aquatic life water quality standards are being attained.

Generally, the CAG plans to collect data measuring pH, conductivity, dissolved organic carbon (DOC), hardness, flow (if feasible), zinc, copper, cadmium, lead, iron, aluminum, and manganese, although other metals could be added to the list. These are the metals that potentially could exceed aquatic life water quality standards in these reaches. This temporal and spatial data will:

- allow the comparison of ambient water quality to water quality standards that are protective of classified uses in particular stream reaches,
- facilitate identifying metal loading reductions that would be necessary upstream to allow Colorado Table Value Standards to be met (Aquatic Life Use Attainment).

3.0 BACKGROUND INFORMATION

3.1 SITE LOCATION AND DESCRIPTION

The boundaries of the BMPD site have never been fully determined, but the focus of the site is the metal loading emanating from mining activity in the upper portion of the Animas River watershed in San Juan County, Colorado. Metals from this area prevent attainment of all Colorado aquatic life water quality standards downstream to Bakers Bridge in La Plata County. Approximately 150 draining mines have been identified and sampled over the years (Use Attainability Analysis). EPA identified 46 priority mine sites and two study areas as its focus during the 2016 Superfund designation. (Support Docs for Superfund)

3.2 SITE HISTORY AND PREVIOUS WORK

Although the Superfund site was designated in 2016, there had already been 25 years of water quality studies and mine remediation in the basin. Over 60 mine remediation projects had already been completed by ARSG and its participants by 2016. Monthly water quality data collection began at four gaging stations around Silverton and at Bakers Bridge in the early 1990's and continues today through the Colorado River Watch program (Colorado River Watch). A large, temporal water quality database exists at either end of the Animas River Canyon and at the mouth of Mineral Creek, a major tributary of the Animas River with a confluence at Silverton.

Water quality standards were recommended by ARSG through its Use Attainability Analysis (UAA) for a number of stream segments in the basin upstream of Bakers Bridge in 2001. The Colorado Water Quality Control Commission adopted standards based upon ARSG's recommendations. Subsequently, WQCD developed 27 Total Maximum Daily Loads (TMDL's) needed to meet for standards the next year. While standards in the basin have been changed in several minor ways since that time, no new comprehensive review of the standards has been conducted.

3.3 SITE CHARACTERISTICS

3.3.1 Physical Geography

The topography of the sample locations is quite mountainous and difficult to access. There is snow on the ground at least five months of the years.

3.3.2 Geology and Hydrogeology

Volcanic activity within the Silverton Caldera deposited high concentrations of metals through much of San Juan County. Those deposits attracted miners who developed hundreds of mine sites in the region. Metals from those mining sites were the driving factor for designating the Bonita Peak Mining District Superfund site (Support Docs for Superfund). The surface water sample locations within this SAP are downstream of many, if not all, of these mining sites and are known to have metal concentrations that are above state water quality standards designed to be protective of most aquatic life. (Final Aquatic Baseline Ecological Risk Assessment, Bonita Peak Mining District Superfund Site, San Juan County, Colorado (BERA))

3.3.3 Hydrology

The headwaters of the Animas River begin at elevations above 13,000 feet above sea level and are located in the heavily mineralized area of the Silverton Caldara. Sources of metals to the river system include a number of natural and mining-related sources such as groundwater flows, seeps and springs, mine drainage and erosion of mine waste piles.

Below Silverton, Colorado, the river leaves the mineralized area and enters a thirty-mile canyon where large tributaries, mostly within wilderness areas, swell the Animas River with clean water, substantially diluting metal concentrations. Water quality in the

Animas River meets all state aquatic life water quality standards approximately 8.5 miles below the canyon at Trimble Lane. (Colorado River Watch Database)

4.0 PATHWAY ANALYSIS

High concentrations of metals in the water column, especially dissolved metals, can be toxic to aquatic life. Metals concentrations at the sample locations in this SAP exceed toxicity thresholds for impairment (BERA).

5.0 DATA QUALITY OBJECTIVES

The EPA Data Quality Objectives (DQO's) Process is a seven-step systematic planning approach to develop acceptance or performance criteria for EPA-funded projects (although this project is not EPA funded). These DQO's were developed by the CAG based on the lack of available temporal and spatial data needed to better characterize two of EPA's priority reaches.

5.1 STEP 1 – THE PROBLEM STATEMENT

EPA has identified four priority reaches to improve water quality within the BPMD.

While EPA has collected an enormous amount of data in the upper part of the Animas River Basin, most of it is synoptic data. They have not collected much temporal data *i.e.* monthly samples at one location although they plan to do so in the future. Only in Priority Area 2 (the Animas River from Eureka to above Silverton) is temporal data being collected. That data collection is part of the Colorado River Watch program. The CAG's objective is to collect temporal data from two other priority reaches to help better characterize current water quality throughout the year.

While a large data set for water quality exists at either end of the thirty mile long Animas River Canyon below Silverton which has been designated by EPA as its top priority reach (Priority Area 1), little data has been collected from within the canyon itself that can be compared to standards because of difficult access. There is also a lack of publicly available temporal data for Priority Area 4, Mineral Creek between Mill Creek and Burro Bridge. Temporal data is needed from these priority areas to better characterize water quality in order to develop future water quality goals within the BPMD.

5.2 STEP 2 – IDENTIFYING THE DECISION

The purpose of this step is to define the decision statements that this study will attempt to

resolve. There are two primary study questions for this investigation, which include the following:

Principal Study Question (PSQ) 1: What are water quality conditions (both metal load and concentration) in Priority Area 1 throughout the year, in particular with regard to metals that may have concentrations above state water quality standards? If standards are exceeded, what amount of metal load reductions would be needed upstream to meet standards? PSQ 2: What are water quality concentrations in Priority Area 4 throughout the year, in particular with regard to metals that may have concentrations above state water quality standards?

5.3 STEP 3 – IDENTIFYING THE DECISION INPUTS

The information that is required to arrive at a decision for PSQ 1 includes:

Monthly water quality samples, targeting specific metals and metal-related constituents, collected year-round at specific locations where feasible in the Animas River Canyon, Priority Area 1. Flow data exists from the USGS gauging stations at A72 (at beginning of the canyon where a large water quality data set already exists) and Tall Timbers (just below the confluence of Cascade Creek and the Animas River) from which metal loads can be calculated.

The information that is required to arrive at a decision for PSQ 2 includes:

Monthly water quality samples, targeting specific metals and metal-related constituents, collected year-round where feasible in Priority Area 4.

5.4 STEP 4 – DEFINING THE STUDY BOUNDARIES

Boundaries Area: PSQ 1: Water quality samples will be collected monthly, year-round from the Animas River about 1/3 of mile below the confluence with Cascade Creek (approximately 18.7 miles below A72, the beginning of the canyon). During months when snow doesn't inhibit access, samples will be collected from the Animas River above the confluence with Crazy Woman Gulch (approximately 17.6 miles below A72) and from the Animas River below the confluence with Elk Creek where the rail bridge crosses the Animas River (approximately 5.5 miles below A72). PSQ 2: Water quality samples will be collected monthly, year-round from Mineral Creek at Burro Bridge, the bottom end of Priority Area 4. This site has the easiest year-round access for this priority area, although it still requires a short ski in the winter.

5.5 STEP 5 – DEVELOPING A DECISION RULE

The Decision Rule that is required for PSQ 1 is:

Three years of data collection should be enough to determine if metal concentrations are generally greater than state water quality standards which might degrade or inhibit aquatic life at different times of year in Priority Area 1. If metal concentrations are greater than water quality standards, calculate the load reductions that would be necessary to meet those standards at the one location where discharge is available. If the data indicates a similar pattern in seasonal variability in to monthly data from sites upstream and downstream of the canyon, discontinue data collection.

The Decision Rule that is required for PSQ 2 is:

Three years of data collection should be enough to determine if metal concentrations are greater than state water quality standards which might degrade or inhibit aquatic life at different times of year in Priority Area 4. If other temporal data collected at the Burro Bridge site which demonstrates seasonal variability becomes publicly available, discontinue data collection.

5.6 STEP 6 – DEFINING TOLERANCE LIMITS ON DECISION ERRORS

The Colorado Water Quality Control Commission has approved a methodology for determining if water quality data attains water quality standards. That methodology explicitly and implicitly factors in tolerance limits for the amount and type of data needed for determining attainment. That methodology will be used in this study.

The CAG will follow EPA's sampling procedures as described in the standard operating procedures (SOP's) in EPA's 2019 Final Field Sampling Plan 2019 Sampling Events Bonita Peak Mining District San Juan County, Colorado (SAP) and 2018 Bonita Peak Mining District Quality Assurance Project Plan, Revision 3 (QAPP) to ensure the sampling is as representative of water quality conditions as possible given limited resources. The more months samples are collected, the more representative the sampling will be of on-going water quality conditions.

5.7 STEP 7 – OPTIMIZING THE SAMPLE DESIGN

The purpose of this step is to identify the most resource-effective data collection design for

generating data that are expected to satisfy the DQOs specified in the preceding six steps.

The locations chosen for sampling for PSQ1 are determined by access, a stream gauge, and the influence of major tributaries. Water quality in the Animas Canyon improves down the canyon as some metals attenuate and as major tributaries with low metal concentrations add more dilution to the Animas River. Starting from the top of the canyon, the first sampling site captures the changes in water quality after the confluence with Elk Creek, the first major tributary in the canyon. The site requires about a nine-mile round-trip hike from near Molas Lake.

The second and third sites are accessed across Highway 550 from Purgatory Ski Area and require a ten-mile round-trip hike. The second location, the Animas River above the confluence with Crazy Woman Gulch, should give an approximation of water quality below the confluence with Needle Creek, another major tributary entering the Animas River, approximately 4.4 miles upstream of the sample site. There are no named surface tributaries and not much land drainage to the Animas River between Needle Creek and Crazy Woman Gulch.

The third location on the Animas River is about a third of a mile below the confluence of Cascade Creek and the Animas River. Cascade Creek is the largest tributary by watershed area in the canyon. This location should provide the most useful data because there is gauging station on the Animas River between the confluence and the sampling location, and this location is accessible in the winter via the Silverton Durango Narrow Gauge Railway.

For PSQ2, the sampling location was chosen because:

- it is at the bottom of Priority Area 4,
- it is accessible in winter,
- and there is historical data at this location that can be used for comparison.

Sampling at this location provides as good a representation of this stream reach as possible given the amount of resources available. See Table 1 and Figures 1-3 for more information on sample locations.

6.0 FIELD PROCEDURES

6.1 CONCEPT OF OPERATIONS

6.1.1 Schedule

Sampling activities began at some locations in the fall of 2019. Sampling will continue monthly through 2020 and beyond when sites are accessible and provided that resources are available. If possible, sampling of sites two and three in the Animas Canyon will occur on the same day as site A72 and Bakers Bridge are sampled by Colorado Riverwatch to allow for same day metal load calculations at A72 and the Tall Timbers gauging stations.

6.1.2 Safety

Given the distances to hike, samples at all sites in the canyon will be collected by two trained volunteers for safety purposes.

6.2 SAMPLE LOCATIONS

Sample locations are described above in section 5.7 and are shown in Table 1 and Figures 1–3 below.

6.3 SAMPLING METHODS

All samples will be collected in accordance with protocols using EPA's Standard Operating Procedures (SOP) included in the Bonita Peak Mining District SAP. Surface water sample collection will be performed in accordance with SOP #FLD-01, *Surface Water Sampling*. In brief, sampling will be performed from the most downstream to the most upstream sampling locations to avoid cross-contamination. Surface water samples will be collected prior to field flow or water quality measurements to minimize disturbance of sediment and potential contamination. Prior to collecting the sample, the sample container will be rinsed three times with stream water from the sample location. Surface water samples will be collected by immersing the sample container several inches beneath the water surface with the mouth of the sample bottle facing upstream.

If surface water samples cannot be collected directly into the sample container, a smaller (less than one-liter) bottle will be used to collect the sample. This bottle will be rinsed three times with water from the sample location prior to collecting the sample. Care will be taken to avoid excessive agitation when transferring samples to the sample containers.

Sample container and preservation requirements for each type of analysis are specified in *BPMD QAPP Worksheet #19* and *30*. All water samples will be collected as one-liter grab samples, which will then be poured into three glass 60 ml vials for DOC and one 250-milliliter (mL) unfiltered sample. Water from the grab container will also be filtered using a .45 micro filter into another 250 ml container. Filtration of the sample for dissolved metals analysis will be performed in the field in accordance with the procedures described in SOP #FLD-01, *Surface Water Sampling*. Any excess water remaining in the one-liter container after generating the four samples for analysis submittal can be returned to the stream.

Surface water samples collected for analysis of total recoverable metals and dissolved metals will be acidified in the field using ultra-pure nitric acid to a pH less than 2.0. Samples will be preserved in accordance with SOP #FLD-03, *Sample Preservation*.

6.4 ANALYTICAL PARAMETERS

Generally, the metal contaminants of concern for this SAP are total lead, iron, and aluminum, and dissolved copper, cadmium, lead, zinc, and manganese. Samples will also be processed for dissolved organic carbon and hardness because these constituents can affect the toxicity of certain metals. Field parameters pH, specific conductance and temperature will be collected at all sample sites. Certified standards and reagents will be used for calibration of the In-Situ Multi-Parameter Meter. pH calibration will be completed using three buffer solutions at pH 4, 7, and 10. Specific conductance will be calibrated with one point at 1,000 microsiemens per centimeter ($\mu\text{S}/\text{cm}$)."

7.0 FIELD QUALITY CONTROL/QUALITY ASSURANCE

The EPA's SW-QAPP will serve as a guide in all sample efforts. Sample bottles will meet EPA specifications (including glass bottles for DOC), and will be part of the quality control program. For every ten samples collected under this SAP, one duplicate and one blank sample shall be added for processing at the lab. Samples will be transported the day of collection to Green Analytical in Durango, Colorado, an EPA approved lab.

8.0 CHAIN OF CUSTODY

All samples will be handled using "Chain of Custody" forms through the collection of samples to their

delivery to an EPA approved laboratory. (See Appendix A for a representative form.)

9.0 DATA REDUCTION, VALIDATION, AND REPORTING

Records will be kept of actual sample locations, and sample points will be accurately located on appropriate topographic maps and via GPS. Procedures will provide documentation of changes in sample locations as they occur in the field due to unanticipated site conditions. Sample locations and sample collection procedures will be documented through the keeping of a field notebook, including sampling date and time, location, sampler name, comments on weather and river conditions, conductivity, pH, and water temperature. Photographs will be taken if any unusual coloring or conditions exist. After data has been evaluated for QA/QC, it will be reported on an Excel spreadsheet which will reside on the Bonita Peak CAG website.

10.0 REFERENCES

Aquatic Life Use Attainment: Methodology to Determine Use Attainment for Rivers and Streams, Policy Statement 10-1, Colorado Water Quality Control Commission, Colorado Dept. of Public Health and Environment, August 7, 2017.

Bonita Peak Mining District, Introducing EPA Goals. March 2019.

<https://semspub.epa.gov/work/08/100005970.pdf>

Bonita Peak Mining District Quality Assurance Project Plan, Revision 3. Prepared by CDM Smith for the U.S. Environmental Protection Agency. May 2018.

Colorado River Watch Database. <https://coloradoriverwatch.org/>

Evaluating Remedial Alternatives for an Acid Mine Drainage Stream: Application of a Reactive Transport Model, Robert L. Runkel and Briant A. Kimball, *Environ. Sci. Technol.* 2002, 36, 5, 1093–1101

Final Aquatic Baseline Ecological Risk Assessment, Bonita Peak Mining District Superfund Site, San Juan County, Colorado. Prepared by TechLaw, Inc. for the U.S. Environmental Protection Agency. February 2019.

Support Document for the Revised National Priorities List Final Rule, Bonita Peak Mining District. U.S. Environmental Protection Agency. September 2016.

Use Attainability Analysis for the Animas River Watershed, Animas River Stakeholders Group, January 2001.

Table 1 – Coordinates for Sampling Locations

Location	ID	Latitude	Longitude	Elevation (ft)
Below Elk Creek	A73RB	37.71678	107.65287	8843
Above Crazy Women Gulch	A75CW	37.60081	107.76368	7781
Below Cascade Creek	A75Da	37.59290	107.77775	7666
Burro Bridge	M13A	37.85008	107.72598	9985

Figure 1 – Location of Below Elk Creek Site

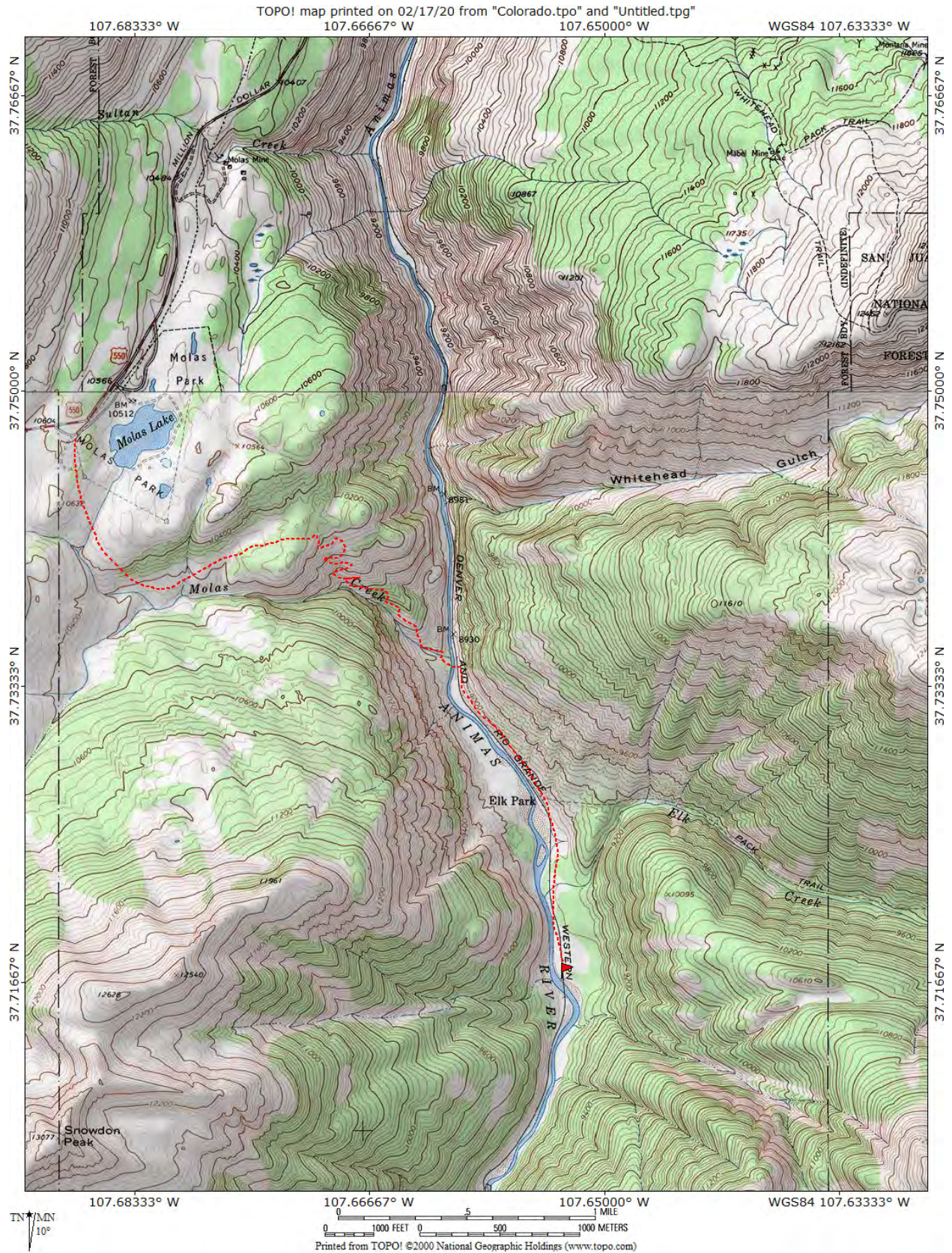


Figure 2 – Location of Above Crazy Woman Gulch and Below Cascade Creek Sites

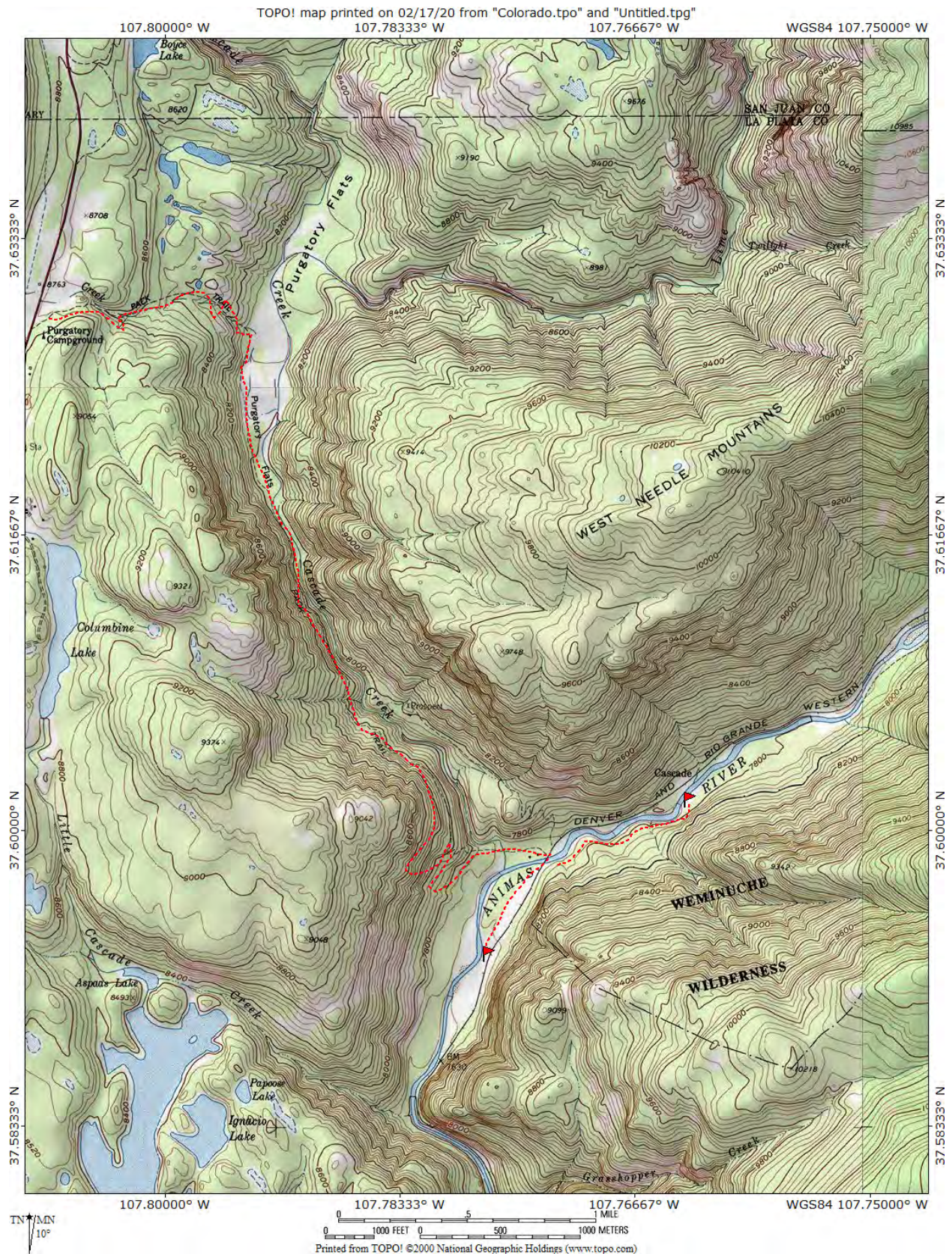
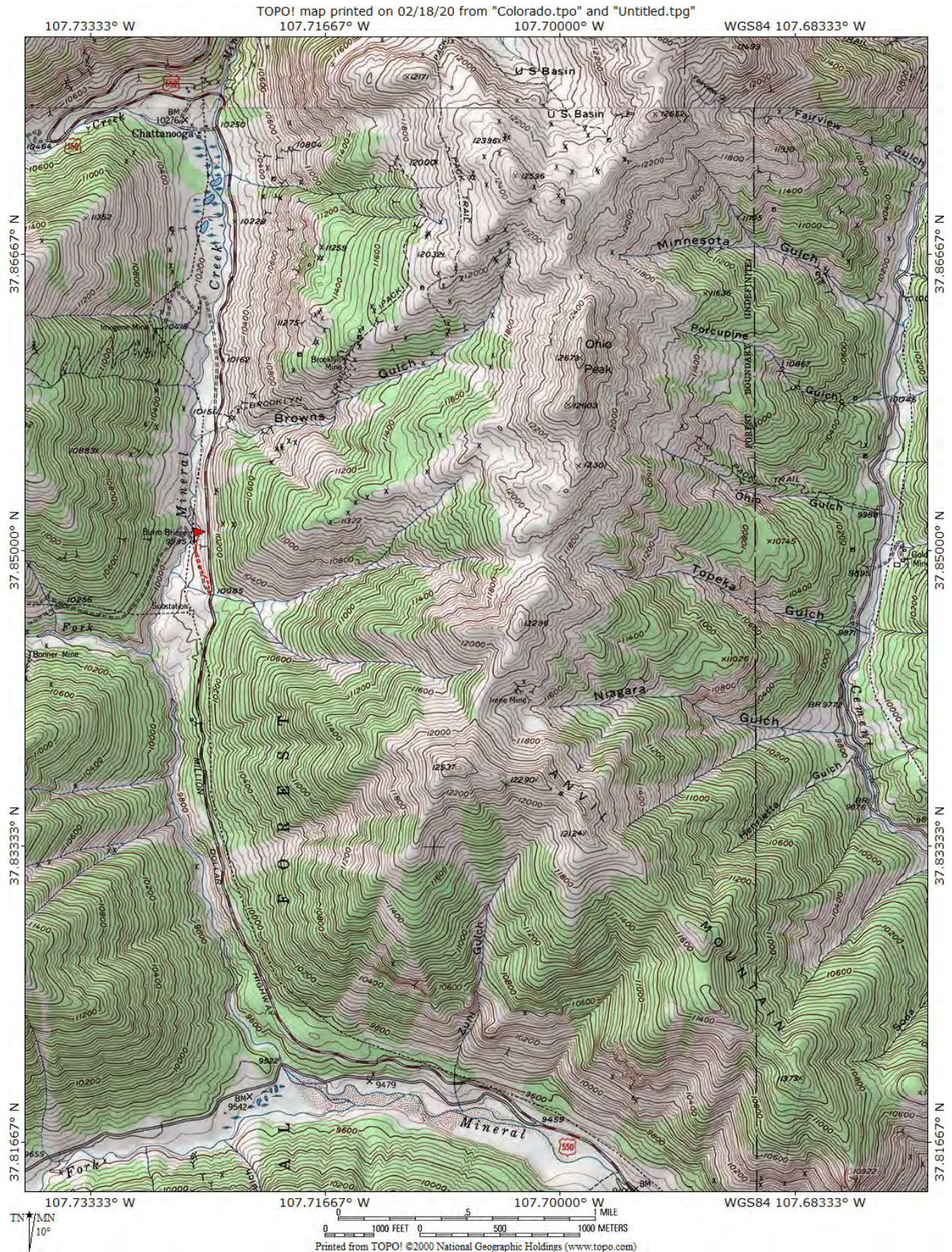


Figure 3 – Location of Burro Bridge Site



ATI
GREEN
Analytical
Laboratories

(970) 247-4220

jenna.emerick@greenanalytical.com or
dzufelt@greenanalytical.com
75 Suttle St Durango, CO 81303

FORM-006
COC - Revision 6.0

Company or Client:						Bill to (if different):								ANALYSIS REQUEST																				
Address:						P.O. #:																												
City:						Company:																												
State:						Zip:																												
Phone #:						Attn:																												
Contact Person:						Address:																												
Email Report to:						City:																												
Project Name(optional):						State:																												
						Zip:																												
						Phone #: _____																												
						Fax: _____																												
Sampler Name (Print):						Matrix (check one)								# of containers																				
For Lab Use Sample Name or Location						Collected				GROUNDWATER SURFACEWATER WASTEWATER PRODUCED WATER SOIL DRINKING WATER OTHER :				No preservation (general) HNO ₃ HCl H ₂ SO ₄ Other: Other:																				
						Date Time																												

2021 SWCD Grant Program – Staff Application Review (Date: **1-12-21** Follow-up Date: **1-14-21**)

Applicant/Project: **Trout Unlimited – San Juan Integrated Water Management Planning, Phase III**

<u>Total Project/Phase Cost</u>	<u>Amount of Request SWCD funds</u>	<u>Applicant Match (Cash / In-Kind)</u>	<u>Other Funding Sources</u>
\$122,407	\$8,897	\$39,672	CWCB Watershed \$49,225; WRSF \$22,151; Various other partners
	(less than 50% of total)	(at least 25% of total)	

<u>Project Type</u>	<u>Limits (Annual Max/5 Year Max Since 2018)</u>	<u>SWCD Request</u>
Education	\$5,000 / \$10,000	
Water Supply/Restoration	\$75,000 / \$150,000	
Public Forums/Workgroups	\$20,000 / \$40,000	\$8,897/\$40,000
Emergency	No limit specified	

Statutory Purposes of SWCD (C.R.S. 37-47-101)

Conservation of San Juan & Dolores rivers for storage, irrigation, mining, or manufacturing Purposes; Construction of reservoirs, ditches and works of irrigation and reclamation of lands not yet irrigated, as well as supplemental supply; Promotion of the health and general welfare of State of Colorado; and Safeguarding of water to which Colorado is equitably entitled.

If educational, does the project/program complement SWCD's existing efforts? **N/A**

Pre-Compact Water Right	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
--------------------------------	------------------------------	--

<u>Application Information</u>	<u>Criteria Met:</u>
Date Received	X
Eligible Entity	X
Required Match	X
Less than 50% of Total Project Cost	X
Project Type, Description, Location	X
Anticipated Project Timeline	X
Detailed Project Expense Budget	X
No Legal, Payroll, or Grant Admin Costs supported by SWCD	X
Identification of Project Beneficiaries & Partners	X
Summary of Previous SWCD Funding Requests and Awards	X
Not For a Project That Was Already Completed	X
Use of Funds in 2021	X
Has Secured Remaining Project Funding	X
Purposes of District	X
-Pre-Compact	
-Compact Development & Entitlement	X
-Health & Welfare	X
-Irrigation & Storage	X

Staff Recommendation: **Approve in the reduced amount of \$8,100. The reduction in recommended funding for this grant is due to the overall exceedance of grant requests in the Public Forums/Workshops/Studies category.**

Applicant Grant History

Date	Name	Notes	Amount
2021	Trout Unlimited	San Juan Integrated Water Management Plan, Phase III <i>(Requested)</i>	<i>\$8,897</i>
2020	Trout Unlimited	San Juan Integrated Water Management Plan, Phase II	\$17,158
2018	Trout Unlimited	San Juan Stream Management Plan, Phase I	\$13,945
			\$40,000

Director Notes/Questions:

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



THE SOUTHWESTERN WATER CONSERVATION DISTRICT

Developing and Conserving the Waters of the
SAN JUAN AND DOLORES RIVERS AND THEIR TRIBUTARIES
IN SOUTHWESTERN COLORADO

GENERAL APPLICATION FOR FINANCIAL ASSISTANCE

SWCD SUBMITTAL CHECKLIST	
Required, Please Initial	
X	I acknowledge I have read and understand the 2021 SWCD Grant Program Guidelines .
X	The financial request to SWCD does not exceed 50% of the total project cost.
X	The applying organization is funding at least 25% of the total project cost.
X	The request is for funds to be used in 2021, for a project to be completed in 2021.
X	I understand that SWCD does not fund payroll, legal, or grant administration costs.
X	I have included a <u>detailed</u> project expense budget.
X	I have included a <u>detailed</u> project funding budget.
X	I have consulted with SWCD staff to ensure all minimum criteria has been met.
Optional	
	Feasibility and/or Engineering Studies
X	Maps
	Photos
X	Letters of Support

WATER ACTIVITY SUMMARY			
Date of Submittal	December 10, 2020		
Type of Request	Grant X	Loan	Grant/Loan Package
Project Name	San Juan Integrated Water Management Planning, Phase III		
Applicant	Trout Unlimited		
Project Location (River Basin)	Upper San Juan		
Amount of Request	\$8,897		
Total Project Cost	\$122,407		
Applicant Match	\$39,672		
Year for Use of Funds	2021		

WATER ACTIVITY CATEGORY		
X	Limit	Category
	\$75,000	Water Supply/Watershed Restoration: Water supply or watershed restoration projects, including design, engineering, and construction
X	\$20,000	Public Forums/Studies: Public forums, work groups, studies, planning efforts
	\$5,000	Education: Teaching seminars, workshops, and related programs
	N/A	Emergency: Situations arising from catastrophic or unforeseen events
Note: The amount of funding each applicant may receive is further limited by the funding received in any given five-year period, as well as the total amount allocated to each category by the board. Review the guidelines carefully and consult staff if needed (970-247-1302).		

APPLICANT INFORMATION	
Name of Authorized Entity	Trout Unlimited
Type of Qualified Entity (See Guidelines)	Non-profit organization
Mailing Address	PO Box 1544, Pagosa Springs, CO 81147
Federal ID Number	# 38-1612715
Contact Person	Mely Whiting
Position/Title	Legal Counsel
Phone Number	720-470-4758
Email	mwhiting@tu.org

APPLICANT DESCRIPTION
<p>Please provide a brief description of the applying entity. For ditch companies, please provide the number of shareholders, acres served, and annual assessment.</p>
<p>Trout Unlimited (TU) is a non-profit organization with over 150,000 members nationwide, over 12,000 members in Colorado. Our mission is to protect, conserve and restore North America's cold-water fisheries and their watersheds. Through its locally based staff, TU has been integrally involved in Southwest Basin Roundtable activities and in the roundtable's effort to develop community-based stream management plans and integrated water supply plan assessments, including the San Miguel Partnership effort and the Upper San Juan Watershed Enhancement Partnership effort. For this project, TU has partnered with Mountain Studies Institute (MSI) and other local entities ("Project Proponents") to develop an Integrated Water Management Plan for the upper San Juan River Basin. TU is applying for this grant and, if awarded, will manage this grant on behalf of the Project Proponents.</p>

WATER ACTIVITY DESCRIPTION
<p>Please provide a narrative description of the activity's physical location, as well as its purpose and benefits. Provide a description of the water supply source to be utilized or the water body affected by the project.</p>
<p>Please explain how the project assists SWCD in furthering its statutory mission to protect, conserve, use, and develop the water resources of southwestern Colorado, as well as safeguard all waters to which Colorado is entitled. Specifically, if you project enhances or preserves any pre-compact water rights, please describe the quantities, appropriation dates, and adjudication dates of those rights. For help acquiring water rights information, call DWR (970-247-1845).</p>
<p>The project area is situated in the Upper San Juan River Basin from the Continental Divide to downstream of the Town of Pagosa Springs. The agricultural infrastructure analysis portion of the project will expand beyond this area and into the Rio Blanco and Navajo Basins.</p> <p>The overall purpose of the project is to develop an understanding of the community's water-related values, agricultural irrigation structural needs, and environmental and recreational (E&R) water supply needs in the area, and to identify and evaluate opportunities for projects to meet the diversity of water-related needs present in the upper San Juan River basin. In so doing, the project furthers the goals expressed in the Southwest Basin Roundtable's Basin Implementation Plan (BIP).</p>

Thanks to the generous contributions of the Colorado Water Conservation Board, the SWCD and other entities, in Phase I the Project Proponents succeeded in bringing together a diverse stakeholder group to guide the process and in gathering input from the larger community.

Informed by the outputs from the coordinated efforts of Phase I (2018-2019), Phase II is nearing completion (summer 2021) of an assessment of environmental and recreational (E&R) water supply needs, agricultural infrastructure, and initial identification of opportunities for multiple-use water projects. Phase III (this proposal) will complete a three-phased process to develop a community-driven Integrated Water Management Plan (IWMP) for the upper San Juan River Basin.

The primary objective of Phase III (this proposal) is to utilize community feedback and technical information from Phase II's assessment to understand where opportunities and constraints exist and, ultimately, facilitate a prioritization of proposed cooperative projects or management actions to address water uses and needs in the San Juan River Basin. Primary outcomes will include:

- 1) Completion of a well-coordinated process that informs and incorporates input from stakeholders and the community as a whole;
- 2) Current data, models, and inventories incorporating the project areas' hydrology, E&R water needs, agriculture infrastructure, forest health, and climate change scenarios to enhance understanding of existing and potential future water resource conditions;
- 3) Identification of cooperative projects to address multiple water needs, including environmental, recreational, agricultural, and municipal;
- 4) Prioritized actions or projects based on community values and evaluation of benefits (e.g. ecological, economic, recreational, agricultural efficiency), direct or indirect consequences, and feasibility; and
- 5) A comprehensive plan that describes the goals, objectives, and results from this process for other organizations or agencies to utilize, reference, and leverage for project implementation.

The proposed project will increase SWCD's ability to fulfill its mission of advocating for southwestern Colorado's water interests by providing critical understanding of the watershed, evaluate resource demands, and engage local communities in dialogue around shared values. Through its agricultural infrastructure assessment in the upper San Juan River Basin, the project will also fulfill SWCD's mission of supporting agriculture in Southwest Colorado.

Further, this project will advance implementation of the Colorado Water Plan and the Southwest Basin Roundtable's Basin Implementation Plan. The Colorado Water Plan includes an objective to have Stream Management Plans/Integrated Water Management Plans for 80% of Colorado's important rivers and streams, and allocates \$1 million or more per year to support this planning effort. The BIP identifies a significant gap in information necessary to understand environmental and recreational (E&R) water needs and establishes a process to develop the needed information, as well as to identify opportunities to address the gaps identified. This project will address the identified information gap and begin the process of identifying potential cooperative projects to meet multiple needs.

WATER PROJECT TIMELINE

Please provide a narrative description of the timeline for the project's major tasks and/or a detailed outline.

Phase II tasks and funding will end in May 2021, with the target start date for Phase III beginning June 2021 to continue momentum with stakeholders, planning and project development over a 12-month period. Currently, the Upper San Juan Watershed Enhancement Partnership (WEP) is planning on hosting all meetings remotely, unless special circumstances require an in-person site visit, in which case all state COVID-19 guidelines would be upheld to reduce risk for all involved parties.

Tasks 1 & 3:

- Trout Unlimited will advise and assist Mountain Studies Institute (MSI), Western Wildscapes (WW), Lotic Hydrological, and San Juan Conservation District (SJCD) will coordinate project management/steering committee meetings on a flexible schedule based on project needs, but these will likely occur every month for the first six months, break over winter holidays, and return for three remaining meetings to finalize project priorities and the IWMP.
- Public stakeholder meetings will be broken down into two focused workshops within the first six months of Phase III, to gather key community decision makers and managers for initial discussions on IWMP goals, objectives and potential actions. This will provide initial example plans and lists to share with the general public for feedback on prioritization and alterations during the two remaining scheduled public meetings within the last six months of Phase III.
- Outreach resources will be developed and communicated by MSI and Western Wildscapes throughout this final phase. In the first three months, MSI will work with Fort Lewis College to create an ArcGIS StoryMap education tool by collecting content, photos, and maps; organize into a draft in the fall/winter; and finalize by spring/early summer of 2022.
- Lotic and the WEP will work with stakeholders to develop an Integrated Water Management Plan throughout Phase III, completing the document by early summer 2022.

Task 2: SJCD will conduct field work to evaluate agricultural infrastructure over the first four months of Phase III, during the summer/early fall of 2021. Crews will start work in the Rio Blanco and move down to the upper Navajo River, depending on time and budget. SJCD will also participate in steering committee and public meetings to help articulate project opportunities and priorities.

Trout Unlimited will submit a project final report that includes task deliverables, budget accounting, and supporting technical assessments to the SWCD in December 2021.

Table 1.5: Estimated Schedule, Phase III

Tasks	Month (After Contract Initiation)												Total # of Meetings
	1	2	3	4	5	6	7	8	9	10	11	12	
Project Management/Steering Committee Meetings	X	X	X	X	X	X			X		X	X	9
Public Meetings		X		X						X		X	4
Education/Outreach Resources	X	X	X	X	X	X	X	X	X	X	X	X	
Agricultural Infrastructure/Water Needs Analysis	X	X	X	X	X	X				X		X	
Finalize Integrated Water Management Plan	X	X	X	X	X	X	X	X	X	X	X	X	

ENGINEERING AND LEGAL FEASIBILITY
Will the Project require the acquisition of an additional water right or change of existing water rights? If yes, please explain.
No.
Will the Project require state or federal regulatory permits of any type? If yes, please explain.
No.
Please list below and attach to this application any feasibility studies or investigations that have been completed or are now in progress for the proposed project.
N/A

WATER ACTIVITY BUDGET																																																											
Please provide any narrative description of the project expense and funding budget that is necessary. Please describe in-kind contributions, if any, and the anticipated decision date for those funding requests that have not already been approved.																																																											
Please see Attachment B and excel spreadsheet for detailed budget.																																																											
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SIMPLE BUDGET							
Task	Description	CWCB WRP Funds	CWCB Statewide WSRF Funds	CWCB Basin WSRF Funds	Other Funding Cash	Other Funding In-Kind	Total
1	Program Coordination & Stakeholder Engagement	\$ 17,375	\$ 7,819	\$ 869	\$ 8,688	\$ 18,206	\$ 52,956
2	Agricultural Infrastructure Analysis	\$ 14,875	\$ 6,694	\$ 744	\$ 7,438	\$ 5,750	\$ 35,500
3	Finalize Integrated Water Management Plan	\$ 12,500	\$ 5,625	\$ 625	\$ 6,250		\$ 25,000
	Subtotal	\$ 44,750	\$ 20,138	\$ 2,238	\$ 22,375	\$ 23,956	\$ 113,456
	Project/Grant Management	\$ 4,475	\$ 2,014	\$ 224	\$ 2,238		\$ 8,950
	TOTAL	\$ 49,225	\$ 22,151	\$ 2,462	\$ 24,613	\$ 23,956	\$ 122,406

MATCHING REQUIREMENTS	
<p>Applicants must demonstrate that they are actively contributing to the project for which they are requesting funding. Any grant approval will be contingent upon the recipient ultimately demonstrating that they have secured funding for the full project cost.</p> <p>In addition, applicants must also demonstrate that they will provide, through a cash contribution and/or the performance of in-kind services, at least 25% of the total project costs. See the guidelines and speak to staff for further clarification. Attach additional information if necessary.</p>	
Contributing Entity	Amount and Form of Match (note cash or in-kind)
Archuleta County Board of County Commissioners	\$ 2,500 (cash, committed)
CWCB Colorado Watershed Restoration Program (Stream Management Planning)	\$ 49,225 (cash, requested)
Forever Our Rivers Foundation	\$ 4,216 (cash, requested)
Mountain Studies Institute	\$ 500 (cash, committed)
Pagosa Tourism Board	\$ 2,500 (cash, requested)
San Juan Water Conservancy District	\$ 2,000 (cash, committed)
Southwest Basin Roundtable Water Supply Reserve Fund (Basin Account)	\$ 2,462 (cash, committed)
Southwest Basin Roundtable Water Supply Reserve Fund (Statewide Account)	\$ 22,151 (cash, requested)
The Nature Conservancy	\$ 1,000 (cash, committed)
Town of Pagosa Springs	\$ 1,000 (cash, requested)
Trout Unlimited	\$ 2,000 (cash, committed)
In Kind	\$ 23,956 (committed & anticipated)
Total Applicant Match (At Least 25%)	\$ 39,672
Total Other Funding	\$ 73,838
SWCD Request (Up to 50% of Project Cost)	\$ 8,897
Total Project Cost	\$ 122,407

WATER PROJECT BUDGET		
<p>Please provide a detailed project budget. You can use the template below or provide a more detailed table in an attachment.</p> <p>Please see Attachment B for detailed budget. This funding request for the Southwestern Water Conservation District would be used for direct project costs. All grant administration costs for this project are covered by other funding sources.</p>		
Task/Materials Description	Funded By (Applicant, SWCD, Other)	Amount
Total Project Cost		\$
Grant Administration Costs as a Percentage of Total Project Cost		%

PREVIOUS SWCD AWARDS AND REQUESTS
<p>Please list all previous request and awards from SWCD by year, amount, and project title. Please ensure that your entity does not exceed the five year limits on awards outlined in the guidelines.</p>
<p>Upper San Juan Basin Stream Management Plan Phase I (2018) \$13,945</p> <p>Upper San Juan Basin Integrated Water Management Plan, Phase II (2020) \$17,158</p>

APPLICANT LIABILITY OR INDEBTEDNESS

Please list any existing long-term liability (multi-year) or indebtedness that exceeds one thousand dollars. This might include bank loans, government agency loans, or bond issues. Please provide the lender name, address, remaining principal, annual payment, and maturity date. If any of these liabilities are currently in default or have been in default at any time in the past, please provide a detailed explanation. Attach a separate schedule as necessary.

N/A

FOR LOAN REQUESTS

Please identify all revenue sources for the applicant that would be available to repay SWCD should financial assistance be offered in the form of a loan.

N/A

APPLICANT SIGNATURE

By signing below, I acknowledge I have read the SWCD Grant Program guidelines, I understand the program requirements, and I submit this application, which is complete and true to the best of my knowledge.

Should the grant funds be awarded, I commit to requesting funds when they are needed, and using them only for the specific purpose and amount indicated in my application. SWCD requires written documentation of all committed project funds prior to disbursement.

I understand that if the project is under budget, there is an expectation that grant funding will be returned to SWCD in the proportion the project was under budget.

I understand that if the intended use of grant funds changes, board approval will be necessary. I also understand that SWCD may require additional documentation regarding the use of the funds at its discretion.

I acknowledge SWCD's requirement for a final written report, including a description of work completed and a detailed accounting of the use of funds.



December 10, 2020

Signature

Date

Printed Name Amelia (Mely) Whiting

Please sign and submit the completed application and any supplemental information via email to lauras@swwcd.org or mail it to SWCD 841 E. 2nd Ave., Durango, CO 81301.

Do not hesitate to contact staff with any questions as you develop your application:
Laura Spann, 970-247-1302, lauras@swwcd.org

ATTACHMENT A: SCOPE OF WORK

<u>Scope of Work</u>	
Water Activity Name:	San Juan Basin Integrated Water Management Planning, Phase III
Grant Recipient:	Trout Unlimited on behalf of Upper San Juan Watershed Enhancement Partnership
Funding Source:	Southwestern Water Conservation District Grant Program
Water Activity Overview:	
<p>The project area is situated in the San Juan Basin on a subset of rivers and streams in Archuleta and Mineral counties, focusing primarily on the upper San Juan River from the Continental Divide to the confluence with Mill Creek. Additionally, assessment of agricultural infrastructure and limited environmental and recreational (E&R) needs analysis will expand to the Rio Blanco and Navajo Rivers.</p> <p>The overarching purpose of this three-phased project is to foster community-driven processes that support water-related values and issues identified by local stakeholders, evaluate water needs and knowledge gaps, and identify opportunities to meet those needs in the San Juan River Basin.</p> <p>Based on community feedback, watershed assessments, and modeling efforts from Phases I and II (2018-2021), Phase III (this proposal) will complete the final steps of a Stream Management Plan (SMP)/Integrated Water Management Plan (IWMP) process. Specifically, the Upper San Juan Watershed Enhancement Partnership will: 1) ensure stakeholder input and scientific analysis guide the planning and decision-making process, 2) expand an inventory of agricultural infrastructure and limited E&R needs analysis to the Rio Blanco and Navajo Rivers, and 3) identify and prioritize multi-benefit water projects in an Integrated Water Management Plan.</p>	
Objectives:	
<p>The primary objective of Phase III (this proposal) is to utilize community feedback and technical information from Phase II's assessment to understand where opportunities and constraints exist and, ultimately, facilitate a prioritization of proposed projects or actions to address water uses and needs in the San Juan River Basin. Primary outcomes will include:</p> <ol style="list-style-type: none">1. Completion of a well-coordinated process that informs and incorporates input from stakeholders and the community as a whole;2. Current data, models, and inventories incorporating the project areas' hydrology, E&R water needs, agriculture infrastructure, forest health, and climate change scenarios to enhance understanding of existing and potential future water resource conditions;3. Identification of cooperative projects to address multiple water needs, including environmental, recreational, agricultural, and municipal;4. Prioritize actions or projects based on community values and evaluation of benefits (e.g. ecological, economic, recreational, agricultural efficiency), direct or indirect consequences, and feasibility;5. A comprehensive plan that describes the goals, objectives, and results from this process for other organizations or agencies to utilize, reference, and leverage for project implementation.	

Task 1

Task 1 – Project Coordination & Stakeholder Engagement

Description of Task:

Mountain Studies Institute (MSI), in close coordination with Western Wildscapes (WW) and support of Trout Unlimited (TU), will act as the Project Management Team. The MSI-led Project Management Team (Team) will be primarily responsible for managing the work of the partners Lotic Hydrological and San Juan Conservation District (SJCD), and coordinating Steering Committee, stakeholder, and community involvement in Phase III. Proactive outreach and feedback collection to finalize the goals, objectives, actions, and priorities of the Integrated Water Management Plan will be essential to completing the community-driven SMP/IWMP process.

Method/Procedure:

- **Subtask 1.1 and 1.2: Project Management, Stakeholder Engagement, Facilitation**

The Team will lead 9 meetings with steering committee members and partners and host 4 public meetings with stakeholders. Meetings will discuss Integrated Water Management Plan development and funding project implementation.

- **Subtask 1.2: Education Resources**

MSI will utilize their partnership with Fort Lewis College to supervise a college level, GIS-focused internship to create an ArcGIS StoryMap for the Upper San Juan Watershed Enhancement Partnership (WEP), including collaborative content from San Juan Headwaters Forest Health Partnership and other local partners. This will offer interactive learning tools for college students and the public to learn more about state and regional water issues, the San Juan Basin, the WEP, and the Integrated Water Management Plan and projects under development. Materials from the StoryMap can also be reformatted into printable or other digital formats to reach stakeholders with outreach preferences and/or access.

- **Subtask 1.3: Community Outreach & Long-term Plan**

Western Wildscapes will assist SJCD with outreach materials (media announcements, flyers) and communication to landowners about agriculture infrastructure inventory process on Rio Blanco and Navajo River. WW will also work with steering committee members to develop long-term organization and funding strategies for the Upper San Juan Watershed Enhancement Partnership.

Deliverables:

- 1.1:** Coordinated stakeholder events to collect feedback and build community support for the Integrated Water Management Plan.
- 1.2:** Collaborative online and printable education resources, including an ArcGIS StoryMap, booklets or flyers highlighting IWMP partners, process, and plans; local, state, and regional water initiatives; interactions between forest and watershed health; and mitigation actions for stakeholders.
- 1.3:** Long-term plan for Upper San Juan Watershed Enhancement Partnership and project funding/implementation.

Task 1
CWCB Deliverable:
<p>MSI will provide CWCB with a progress report after the first six months, beginning from the date of the executed contract. The progress report shall describe the fully or partially completed tasks identified in the statement of work, including a description of accomplishments, issues if any occurred, and any corrective actions taken. Upon project completion, MSI will provide CWCB a final report that summarizes the project and documents how the project was completed. The final Integrated Water Management Plan and compilation of cutsheets for priority projects created by Lotic will also be included in the report and shared with our other funding supporters. This report will be informed by the entire project team.</p>

Task 2
Task 2 – Agricultural Infrastructure Analysis
Description of Task:
<p>Following similar strategies used on the upper San Juan River in Phase II, San Juan Conservation District (SJCD) will be responsible for conducting data collection, field surveys and analysis of agricultural infrastructure for the Rio Blanco. This work will extend to the Navajo River, depending on time and budget. These analyses will compliment and be incorporated into Lotic Hydrological's modeling and project development for the Integrated Water Management Plan.</p>
Method/Procedure:
<ul style="list-style-type: none"> Subtask 2.1: Data Review, Inventory, Prioritize Projects SJCD will compile and review existing information and data relevant to characterizing agricultural infrastructure in the Rio Blanco and Navajo River. Then SJCD will work with agricultural water users, ditch representatives, and water rights holders to inventory current conditions of irrigation systems within the project area. This inventory will evaluate irrigation infrastructure to determine deficiencies within each system, identify candidate and priority areas, and develop potential water efficiency improvements and cost estimates. Subtask 2.2: Data Access and Inventory Oversight SJCD supervisors will oversee access to databases and other resources, assist with outreach before field surveys, coordinate site visits, compile appropriate data and information to assist Lotic's analysis of watershed conditions and map priority areas for future improvement projects.
Deliverable:
<p>2.1: General report of existing information and data gaps. An evaluation report, tables, and maps summarizing agricultural water user preferences, priorities, alternatives, and potential funding mechanisms to be considered in the IWMP. These reports and findings may require general calculations and locations to respect landowner and ditch company privacy.</p> <p>2.2: Participation and/or presentations of agricultural inventory results for public meetings. Data tables, maps, and narratives suitable for use with stakeholder engagement, public meetings, and CWCB reporting.</p>

CWCB Deliverable:

Appropriate data and mapping from this inventory will be included in technical analyses and project exploration, developed by Lotic Hydrological, and submitted in the project's final report from Mountain Studies Institute to the CWCB.

Task 3

Task 3 – Finalize Integrated Water Management Plan

Description of Task:

Lotic will provide WEP and the larger stakeholder group with data interpretations, visualizations, and predictive assessments to aid in cost-benefit assessments of contemplated actions. Lotic will assess the degree to which an action is likely to meet ecological or recreational planning goals and objectives. Lotic will also help stakeholders understand secondary positive or negative impacts of any action on the delivery and/or consumptive use of water. This approach will help stakeholders understand where opportunities and constraints exist and, ultimately, facilitate prioritization of proposed projects and management actions. See Attachment D for more details on method/procedure for each subtask.

Method/Procedure:

- **Subtask 3.1: Develop Management Goals and Objectives**

Over the course of several meetings, Lotic will work with stakeholders to articulate specific management goals and objectives that respond to the high-priority issues identified in Phase II. This effort will include discussions of morphologically-based, biologically-based, or flow-based management goals used as a direct or indirect measure of riparian area health, health of aquatic biota, recreational use opportunity, or receipt of ecosystem services. The characterization of multiple water use planning goals and objectives is necessary to direct the type of focused study needed to identify and evaluate the feasibility and effectiveness of alternative management actions or projects.

- **Subtask 3.2: Identify candidate actions, projects and processes**

Lotic will work with WEP to identify several candidate structural projects, collaborative processes, or actions that respond to the planning goals and objectives. Lotic will initially identify opportunities through internal assessment of hydrological conditions, water use and administration, water delivery infrastructure condition, and ecological or recreational needs. Structural projects, collaborative processes or actions may include, but will not be limited to, protection measures for high-value riparian areas, diversion structure improvements with fish bypass structures, agricultural efficiency improvements, in-channel habitat restoration, invasive species control, and recreational channel structures.

- **Subtask 3.3: Evaluate and prioritize alternatives**

Lotic will utilize process-based conceptual models, environmental flow analysis results, and recreational use preferences to predict ecological and recreational use outcomes of each candidate alternative action. These outcomes will be assessed against stakeholder-identified goals and objectives. Actions will then be ranked against each other based on their predicted ability to meet stated goals and objectives. Lotic will subsequently work with project coordinators and local stakeholders to rank alternatives according to their relative feasibility.

Task 3

- **Subtask 3.4: Plan for implementation**

Lotic will integrate the results from the effectiveness and feasibility assessments above to develop conceptual-level implementation cutsheets. Each implementation cutsheet will identify information needed to advance projects including, but not limited to, recommendations for overcoming technical, financial, or legal constraints, anticipated outcomes, and a monitoring plan for assessing long-term effectiveness. All cutsheets will be formatted to allow for straightforward incorporation into future drafts of the Southwest Basin Implementation Plan as Identified Projects and Processes (IPPs) for the upper San Juan River drainage.

- **Subtask 3.5: Develop final planning document**

Lotic will produce a final report integrating all maps, graphics, memoranda, and technical reports produced by Phases I-III of the planning process. The report will additionally include identification of high-priority recommendations and corresponding discussions for implementation of each recommendation.

Deliverable:

- 3.1:** Report detailing planning goals and objectives identified by stakeholders.
- 3.2:** Table identifying candidate structural projects, collaborative processes, or management actions that respond to the planning goals and objectives. The table will reference candidate actions against high-priority planning reaches and the issues present on those reaches.
- 3.3:** Technical report discussing the employed methodologies and assessment results characterizing the effectiveness of each proposed alternative. The technical report will be accompanied by a table indicating the relative effectiveness and feasibility rankings assigned to each alternative.
- 3.4:** Compilation of IPP cutsheets characterizing each high-priority project or collaborative action identified by stakeholders.
- 3.5:** Publication-quality final report.

CWCB Deliverable:

The final Integrated Water Management Plan and compilation of cutsheets for priority projects created by Lotic will be included in Mountain Studies Institute's reports to CWCB and shared with other funding supporters and partners.

ATTACHMENT B: BUDGET

Please see the budget tables below outlining project costs and funding sources for Phase III of this project, on behalf of the Upper San Juan Watershed Enhancement Partnership (WEP). Following the funding strategy used in Phases I and II of this Stream Management Plan/Integrated Water Management Plan process, the WEP hopes to take advantage the opportunity to combine multiple grants from the Colorado Water Conservation Board (CWCB) up to 75% of project costs. By applying for Watershed Restoration Program (WRP) and Water Supply Reserve Fund (WSRF) grants through the CWCB and Southwest Basin Roundtable, this group hopes to receive approval at the CWCB March 2021 Board meeting for \$73,838 total. If successful, the Upper San Juan Watershed Enhancement Partnership would be required to provide 25% matching funds (cash and in-kind) to cover remaining project costs.

In both Phases I and II, the support and contributions from the Southwestern Water Conservation District (SWCD) have helped the WEP fulfill this 25% CWCB grant requirement, thereby demonstrating commitment from local communities and entities to investigate multiple use and beneficial projects in the Southwest Basin. We hope the SWCD continues to support these efforts in Phase III (this proposal).

This project's funding request of the SWCD would be used only for direct project costs. All grant administration costs for Phase III of this project would be covered by other funding sources, including Colorado Water Conservation Board grants and local partners contributing cash match.

Table 1. Project costs for San Juan Integrated Water Management Planning, Phase III

Tasks	Responsible Party	Task Details	Cost	Task Total
1. Project Coordination & Stakeholder Engagement	MSI Program Director	Project Oversight & Coordination	\$ 5,850	\$ 34,750
	MSI Project Lead	Facilitation, Outreach & Education Resources	\$ 15,750	
	MSI Team	Outreach Printing/Publishing Costs	\$ 1,000	
	Western Wildscapes	Community Outreach, Project support, Long Term Plan	\$ 12,150	
2. Agricultural Infrastructure Analysis	SJCD Team	Data Review, Inventory, Prioritize Projects	\$ 22,750	\$ 29,750
	SJCD Team	Data Access & Inventory Oversight	\$ 7,000	
3. Finalize Integrated Water Management Plan	Lotic Team	Develop Management Goals and Objectives	\$ 4,000	\$ 25,000
	Lotic Team	Identify Candidate Actions, Projects and Processes	\$ 4,000	
	Lotic Team	Evaluate and Prioritize Alternatives	\$ 8,500	
	Lotic Team	Plan for Implementation	\$ 5,000	
	Lotic Team	Develop Final Planning Document	\$ 3,500	
Subtotal				\$ 89,500
Project/Grant Management	MSI Finance Team	Project/Grant Management Indirect Fee	Subtotal x 10%	\$ 8,950
			TOTAL	\$ 98,450

MSI = Mountain Studies Institute, SJCD = San Juan Conservation District, Lotic = Lotic Hydrological

Detailed units and rates per task and project partner is included in Attachment B Excel spreadsheet.

Table 2. Phase III funding overview by project tasks

Task	Description	CWCB WRP Funds	CWCB Statewide WSRF Funds	CWCB Basin WSRF Funds	Other Funding Cash	Other Funding In-Kind	Total
1	Program Coordination & Stakeholder Engagement	\$ 17,375	\$ 7,819	\$ 869	\$ 8,688	\$ 18,206	\$ 52,956
2	Agricultural Infrastructure Analysis	\$ 14,875	\$ 6,694	\$ 744	\$ 7,438	\$ 5,750	\$ 35,500
3	Finalize Integrated Water Management Plan	\$ 12,500	\$ 5,625	\$ 625	\$ 6,250		\$ 25,000
	Subtotal	\$ 44,750	\$ 20,138	\$ 2,238	\$ 22,375	\$ 23,956	\$ 113,456
	Project/Grant Management	\$ 4,475	\$ 2,014	\$ 224	\$ 2,238		\$ 8,950
	TOTAL	\$ 49,225	\$ 22,151	\$ 2,462	\$ 24,613	\$ 23,956	\$ 122,406

Table 3. Phase III funding overview by percentage

Project Costs	\$	Percentage of Project Costs
CWCB- Watershed Restoration Program	\$ 49,225	50%
CWCB- Statewide Water Supply Reserve Fund	\$ 22,151	22.5%
CWCB-Basin Water Supply Reserve Fund	\$ 2,462	2.5%
Total CWCB Fund Request	\$ 73,838	75%
Cash Match	\$ 24,613	25.0%
In-kind Match	\$ 23,956	24.3%
Cash + In-kind Total	\$ 48,569	49.3%

In Tables 2 and 3, our funding request of SWCD for \$8,897 is included as part of the 25% match funding required to fulfill CWCB grant requirements. Including this SWCD funding request, we anticipate a total \$48,569 matching funds from cash and in-kind sources. This combination ensures remaining direct project costs (\$24,613, 25%) not funded by CWCB are covered and additional capacity is supported through advising and volunteer services (additional \$23,956 in-kind funds/support).

Table 4. SWCD funding request overview and previous SWCD awards/grants

SWCD Request Only		Previous SWCD Awards/Grants for "participation in public forums and the performance of studies" within past 5 years	
\$	8,897	SWCD Request	
\$	39,672	Total Applicant Match	2018
\$	73,838	Total Other Funding	2020
\$	122,407	Total Project Cost	2021 (proposal)
		Total SWCD Project Awards	\$ 40,000

Table 5. Cash and in-kind match funding sources and status

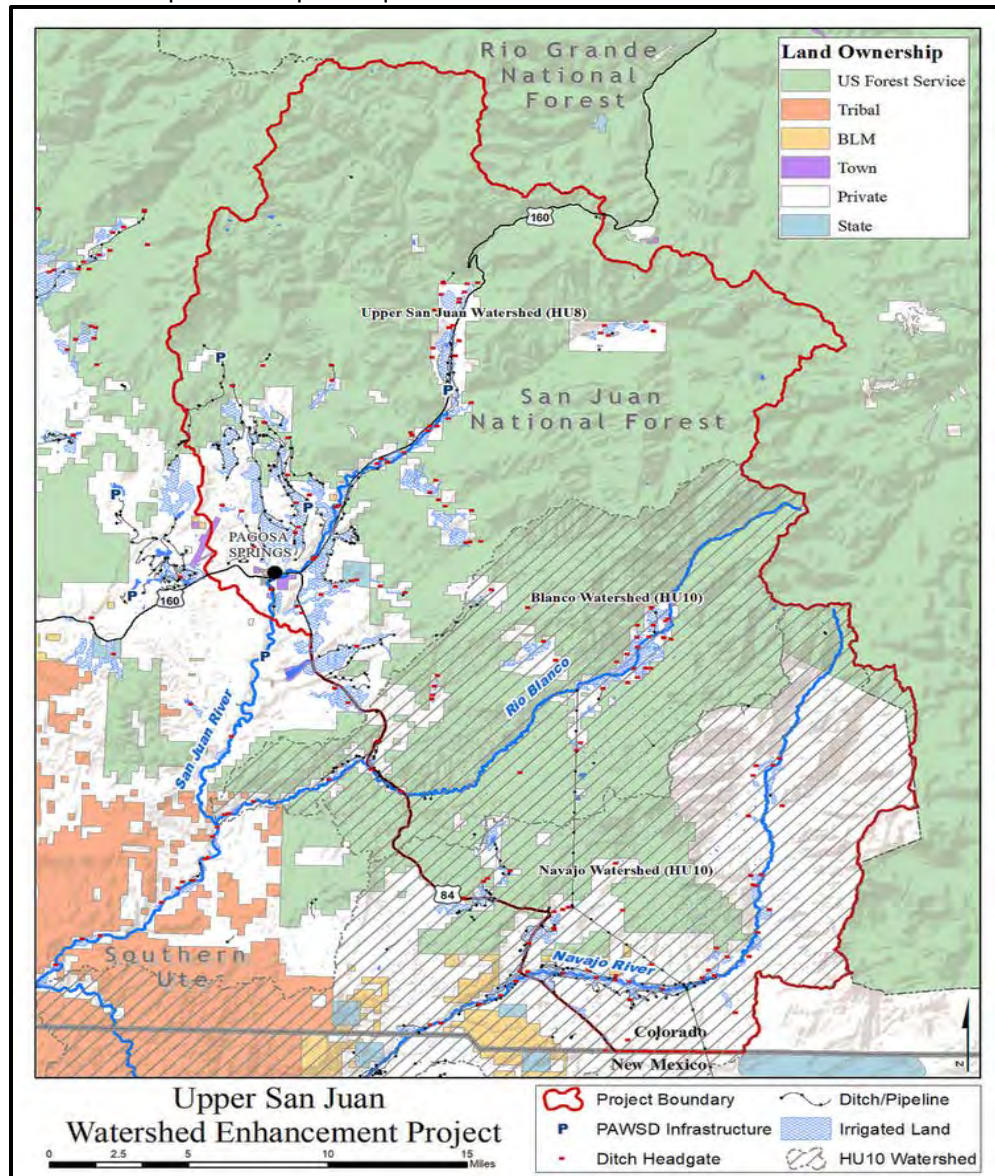
Cash Match	Amount	Status
Archuleta County BOCC	\$ 2,500	Committed
Forever Our Rivers Foundation	\$ 4,216	Requested
Mountain Studies Institute	\$ 500	Committed
Pagosa Tourism Board	\$ 2,500	Requested
San Juan Water Conservancy District	\$ 2,000	Committed
Southwestern Water Conservation District	\$ 8,897	Requested
The Nature Conservancy	\$ 1,000	Committed
Town of Pagosa Springs	\$ 1,000	Requested
Trout Unlimited	\$ 2,000	Committed
Cash Match Total	\$ 24,613	

In-kind Match	Amount	Status
Trout Unlimited Advising Services (160 hrs @ \$50/hr)	\$ 8,000	Committed
Steering Committee/Partner Meetings (2 hrs x 28.02 CO volunteer rate = \$56.04 x 12 pax = \$672.48 x 9 meetings)	\$ 6,052	Anticipated
Public meetings (2 hrs x 25.96 volunteer rate = \$51.92 x 20 pax = \$1,038.4 x 4 meetings)	\$ 4,154	Anticipated
San Juan Conservation District Staff Time (50 hrs @ \$35/hr)	\$ 1,750	Committed
Natural Resources Conservation Service Staff Time (100 hrs @ \$40/hr)	\$ 4,000	Committed
In-kind Total	\$ 23,956	

ATTACHMENT C: MAP

Figure 1: Project area for San Juan Basin Integrated Water Management Plan, Phase III

The map below illustrates the geographic scope of Steering Committee representation, assessment locations, and project areas to be considered in the IWMP (red boundary). The scope for the IWMP has been developed through stakeholder and Steering Committee input during Phases I & II. GIS shapefiles and coordinates can be provided upon request.



Streams and waterways include the San Juan River mainstem including and above the Town of Pagosa Springs, East Fork of the San Juan River, West Fork of the San Juan River, Rio Blanco River, and Navajo River. Phase II's assessment primarily focuses on the upper San Juan from the Continental Divide to the confluence with Mill Creek; with some analysis in the Navajo and Rio Blanco area. Phase III will extend the agricultural infrastructure inventory to Rio Blanco, as well as the Navajo River if time and budget permit. The IWMP will capture assessments and consider management priorities for all three watersheds.

ATTACHMENT D: LETTERS OF SUPPORT

Letters of commitment from contributing entities, regarding matching funds, are currently being gathered and will be submitted as soon as possible. Trout Unlimited and the Upper San Juan Watershed Enhancement Partnership understand letters of commitment are required and must be submitted before contracting with the Southwestern Water Conservation District and Colorado Water Conservation Board.

Please find attached letters of support from the following organizations/partners:

- 1) Archuleta County Board of County Commissioners
- 2) Banded Peak Ranch
- 3) Colorado Parks & Wildlife
- 4) Colorado State University Archuleta County Extension Office/Resilient Archuleta
- 5) Pagosa Outside
- 6) San Juan Headwaters Forest Health Partnership
- 7) San Juan Water Conservancy District
- 8) Southwest Basin Roundtable
- 9) Southwest River Engineering
- 10) Town of Pagosa Springs
- 11) Trout Unlimited Five Rivers Chapter
- 12) The Nature Conservancy



**BOARD OF COUNTY COMMISSIONERS
ARCHULETA COUNTY, COLORADO**

P.O. Box 1507 / 398 Lewis Street / Pagosa Springs, Colorado 81147
Tel (970) 264-8300

November 17, 2020

Mr. Edward Tolen
Chairman
Southwest Basin Roundtable
c/o La Plata Archuleta Water District
P.O. Box 1377
Ignacio, Colorado 81137

Dear Mr. Tolen:

Please accept this letter of support for the Mountain Studies Institute and the Upper San Juan Watershed Enhancement Partnership's (WEP) grant application for **Phase 3** of the Upper San Juan Basin Integrated Water Management Plan. Phase 3 will entail planning, design and implementation of the projects identified in Phase 2 of the Plan.

The BoCC is very supportive of the efforts of the WEP and finds significant value in better understanding our community's water usage and needs for all water users, including recreational, municipal, environmental and agricultural.

The BoCC is pleased to continue our support of this project into the next phase. Thank you for your consideration of their application.

Sincerely,

Ronnie Maez
Chairman



BANDED PEAK RANCH
-----EST. 1894-----

PO Box 159
Chromo, CO 81128
970.264.9268

November 4, 2020

Mountain Studies Institute
ATTN: Mandy Eskelson, Aaron Kimple
679 East 4th Avenue, Suite 8
Durango, CO 81301

Dear Ms. Eskelson and Mr. Kimple,

The Banded Peak Ranch supports Mountain Studies Institute's (MSI) application on behalf of the Upper San Juan Watershed Enhancement Partnership's proposed project entitled "San Juan Basin Integrated Water Management Plan, Phase III."

This project assists in meeting state, regional, and local goals to increase understanding of Colorado's water needs, identify gaps, and promote projects and processes to address those needs. The San Juan Basin contains the headwaters of the San Juan River and other major tributaries that contribute to the larger Colorado River System. Understanding water resources in this project area provides critical information to improve current and prepare for future conditions.

Phases I and II began identifying opportunities to sustain and improve water sources in the San Juan Basin based upon inventories and modeling of environmental, agricultural, and recreational water uses. Phase III will complete this planning process by utilizing the results from Phase II's watershed assessment in conjunction with community values to outline goals, objectives, and project priorities in an Integrated Water Management Plan.

The WEP will also develop education resources and outreach events to ensure stakeholders can easily understand and apply the findings from this plan to fund and implement projects to meet multiple water uses in the San Juan Basin.

The Banded Peak Ranch sits in the Navajo River Basin. This project will lead to a better understanding of the San Juan Basin and allow us to make appropriate conservation-oriented management decisions.

Sincerely,

Tim Haarmann
Banded Peak Ranch Manager
970.264.9269



COLORADO

Parks and Wildlife

Department of Natural Resources

Southwest Region
415 Turner Drive
Durango, CO 81303
P 970.375.6732 | F 970.375.6705

November 4, 2020

Mountain Studies Institute
ATTN: Mandy Eskelson, Aaron Kimple
679 East 4th Avenue, Suite 8
Durango, CO 81301

Dear Ms. Eskelson and Mr. Kimple,

Colorado Parks and Wildlife (CPW) supports Mountain Studies Institute's (MSI) application on behalf of the Upper San Juan Watershed Enhancement Partnership's proposed project entitled "San Juan Basin Integrated Water Management Plan, Phase III."

This project helps meet state, regional, and local goals to identify the Upper San Juan River's water needs and gaps, and with stakeholder direction, will promote projects and/or processes to address important issues. The San Juan Basin contains the headwaters of the San Juan River and other major tributaries that contribute to the larger Colorado River System. Understanding agricultural, environmental and recreational needs in this project area, all three significant economic drivers for the Town of Pagosa Springs and southwest Colorado, is to understand how to prioritize projects that benefit the community and environment.

Phases I and II began identifying opportunities to sustain and improve water resources in the San Juan Basin based upon inventories and modeling of environmental, agricultural, and recreational water uses. Phase III will complete this planning process by utilizing the results from Phase II's watershed assessment in conjunction with community values to outline goals, objectives, and project priorities in an Integrated Water Management Plan.

The WEP will also develop educational resources and outreach events to ensure stakeholders can easily understand and apply the findings from this plan to fund and implement projects to meet multiple water uses in the San Juan Basin.

CPW is an active member of the steering committee. The steering committee is effective and representative of the myriad interests in water resources in the upper San Juan River. The early progress and diverse partnerships led CPW leadership to select a pilot project to partner with a national non-profit organization called The Great Outdoors Fund to crowdfund improvements to preserve and enhance primitive recreational access to a signature reach of the river. CPW is hopeful this campaign will highlight the benefits that public/private partnerships could have to improve, support and promote outdoor recreation.



CPW has enjoyed the dedication and consistency of the WEP from its inception. Your organization continues to do an excellent job facilitating the various interests of the Partnership.

Sincerely,

A handwritten signature in black ink, appearing to read 'Ryan Unterreiner', with a stylized, cursive script.

Ryan Unterreiner
SW Region Water Resources Specialist



Archuleta County

Extension

P.O. Box 370
Pagosa Springs, Colorado 81147
(970) 264-5931
Robin.Young@colostate.edu

October 30, 2020

SOUTHWEST BASIN ROUNDTABLE

Edward Tolen, First Vice Chair
c/o La Plata Archuleta Water District
P.O. Box 1377
Ignacio, Colorado 81137
970-563-0320

Colorado Water Conservation Board
ATTN: Ben Wade
1313 Sherman St. Room 721
Denver, CO 80203

Dear Southwest Basin Roundtable and Dear CWCB Board Members ,

I am writing today in support of Mountain Studies Institute's (MSI) application on behalf of the Upper San Juan Watershed Enhancement Partnership's proposed project entitled "San Juan Basin Integrated Water Management Plan, Phase III."

This project assists in meeting state, regional, and local goals to increase understanding of Colorado's water needs, identify gaps, and promote projects and processes to address those needs. The San Juan Basin contains the headwaters of the San Juan River and other major tributaries that contribute to the larger Colorado River System.

Understanding water resources in this project area provides critical information to improve current and prepare for future conditions.

Phases I and II began identifying opportunities to sustain and improve water sources in the San Juan Basin based upon inventories and modeling of environmental, agricultural, and recreational water uses. Phase III will complete this planning process by utilizing the

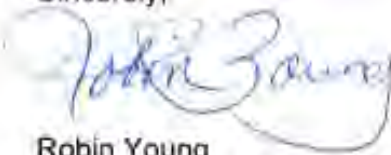
results from Phase II's watershed assessment in conjunction with community values to outline goals, objectives, and project priorities in an Integrated Water Management Plan.

The WEP will also develop education resources and outreach events to ensure stakeholders can easily understand and apply the findings from this plan to fund and implement projects to meet multiple water uses in the San Juan Basin.

This project will impact Resilient Archuleta because we have direct communication with the public and can disperse information first hand to the community.

Thank you for your consideration.

Sincerely,



Robin Young
Resilient Archuleta
CSU Extension Director Archuleta County

October 30, 2020

SOUTHWEST BASIN ROUNDTABLE

Edward Tolen, First Vice Chair
c/o La Plata Archuleta Water District
P.O. Box 1377
Ignacio, Colorado 81137
970-563-0320

Colorado Water Conservation Board
ATTN: Ben Wade
1313 Sherman St. Room 721
Denver, CO 80203

Dear Southwest Basin Roundtable and Dear CWCB Board Members,

Pagosa Outside supports Mountain Studies Institute's (MSI) application on behalf of the Upper San Juan Watershed Enhancement Partnership's proposed project entitled "San Juan Basin Integrated Water Management Plan, Phase III."

This project assists in meeting state, regional, and local goals to increase understanding of Colorado's water needs, identify gaps, and promote projects and processes to address those needs. The San Juan Basin contains the headwaters of the San Juan River and other major tributaries that contribute to the larger Colorado River System. Understanding water resources in this project area provides critical information to improve current and prepare for future conditions.

Phases I and II began identifying opportunities to sustain and improve water sources in the San Juan Basin based upon inventories and modeling of environmental, agricultural, and recreational water uses. Phase III will complete this planning process by utilizing the results from Phase II's watershed assessment in conjunction with community values to outline goals, objectives, and project priorities in an Integrated Water Management Plan.

The WEP will also develop education resources and outreach events to ensure stakeholders can easily understand and apply the findings from this plan to fund and implement projects to meet multiple water uses in the San Juan Basin.

My business, our local economy, and the entire community directly benefit from this project. I will continue to enthusiastically support the WEP's efforts to promote processes and projects that identify, protect and enhance agricultural, municipal, environmental, and recreational water needs in the Pagosa area.

Sincerely,

A handwritten signature in dark ink, appearing to read "Tobi Rohwer". The signature is fluid and cursive, with the first name "Tobi" and last name "Rohwer" clearly distinguishable.

Tobi Rohwer
Managing Partner
Pagosa Outside

November 2, 2020

Mountain Studies Institute
ATTN: Mandy Eskelson
679 E. 2nd Ave, Suite 8
Durango, CO 801301

Mountain Studies Institute and Upper San Juan Watershed Enhancement Partnership,

The San Juan Headwaters Forest Health Partnership (SJHFHP) supports Mountain Studies Institute's (MSI) application on behalf of the Upper San Juan Watershed Enhancement Partnership's (WEP) proposed project entitled "San Juan Basin Integrated Water Management Plan, Phase III."

This project assists in meeting state, regional, and local goals to increase understanding of Colorado's water needs, identify gaps, and promote projects and processes to address those needs. The San Juan Basin contains the headwaters of the San Juan River and other major tributaries that contribute to the larger Colorado River System. Understanding water resources in this project area provides critical information to improve current and prepare for future conditions.

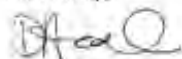
Phases I and II began identifying opportunities to sustain and improve water sources in the San Juan Basin based upon inventories and modeling of environmental, agricultural, and recreational water uses. Phase III will complete this planning process by utilizing the results from Phase II's watershed assessment in conjunction with community values to outline goals, objectives, and project priorities in an Integrated Water Management Plan.

The WEP will also develop education resources and outreach events to ensure stakeholders can easily understand and apply the findings from this plan to fund and implement projects to meet multiple water uses in the San Juan Basin.

The San Juan Headwaters Forest Health Partnership directly benefits from this project because the research, project prioritization, science-based decision making, and on-the-ground work in the San Juan River Basin and the forest existing on the same landscape are inherently connected. From its inception, the SJHFHP has prioritized projects and elected to work across jurisdictional boundaries by considering the impacts of our work on watersheds and the water resources that serve our community and countless others downstream. For this reason, the SJHFHP consistently prioritizes and supports forest restoration projects that directly influence watershed and forest resilience. The creation of an Integrated Water Management Plan by the WEP would help to further inform prioritization and project efforts. Furthering education and outreach efforts of both groups by working together is also an attractive and important opportunity for the SJHFHP.

The SJHFHP and its members gladly offer support for the WEP's proposed Phase III San Juan Basin Integrated Water Management Plan project.

Sincerely,



Dana Hayward, SJHFHP Partnership Coordinator

January 19, 2011



Colorado Water Conservation Board
ATTN: Chris Sturm, Ben Wade
1313 Sherman St. Room 721
Denver, CO 80203

SOUTHWEST BASIN ROUNDTABLE

Edward Tolen, First Vice Chair
c/o La Plata Archuleta Water District
P.O. Box 1377
Ignacio, Colorado 81137

Subject: Matching Funds for San Juan Basin Integrated
Water Management Plan, Phase III

Dear CWCB Board members and Southwest Basin Roundtable,

The purpose of this letter is to confirm matching contributions and support from the San Juan Water Conservancy towards Mountain Studies Institute's (MSI) proposed project, on behalf of the Upper San Juan Watershed Enhancement Partnership, for the "San Juan Basin Integrated Water Management Plan, Phase III."

The San Juan Water Conservancy has committed **\$2,000 in matching cash funds** from our 2021 budget to support the Phase III goals and objectives for this project. The San Juan Water Conservancy also provided matching cash funds for Phases I and II of this project and is pleased to continue its support into Phase III. Please contact me should you need further information.

Sincerely,

A handwritten signature in black ink, appearing to read "Susan Nossaman".

Susan Nossaman
Vice President/Chair
San Juan Water Conservancy District
46 Eaton Drive, Suite 5
www.sjwcd.org

SOUTHWEST BASINS ROUNDTABLE

C/O La Plata Archuleta Water District

PO Box 1377

Ignacio, Colorado 81137

November 20, 2020

Colorado Water Conservation Board
Water Supply Planning Section
WSRF Application
1313 Sherman Street, Room 718
Denver, Colorado 80203

RE: Upper San Juan Watershed Enhancement Partnership
WSRF Grant Request

The Southwest Basins Roundtable approved funding of \$2,462 from the Southwest Basins Roundtable account for the Upper San Juan Watershed Enhancement Partnership. In addition, we are recommending that the Colorado Water Conservation Board approve their request for \$22,151 from the Statewide account. This application was considered fully and approved by the Southwest Basins Roundtable at the November 19, 2020 meeting. There was a quorum of members present at the meeting.

The proposed project falls under IPP 1-MB of the Southwest Basins Implementation Plan. It also meets Measurable Goals or Outcomes of the Southwest Basins BIPs A1) pursue a high success rate for identified specific and unique IPPS; A2) support specific and unique new IPPs important to maintaining the quality of life in the region; A4) promote dialogue, foster cooperation and resolve water interests among water interests; A5) maintain watershed health by protecting and/restoring watersheds; B2) implement efficiency measures to maximize beneficial use and production; D1) maintain, protect and enhance recreational values and economic values; E1) encourage and support restoration, recovery and sustainability of endangered, threatened, and imperiled aquatic and riparian dependent species; E2) Protect, maintain, monitor and improve the condition and natural function of streams, lakes, wetlands, and riparian areas; F1) monitor, protect, and improve water quality for all classified users; and G3) preserve Southwest Basin's ability to develop Colorado River compact entitlement.

The completed Grant Application will be forwarded directly to you by the applicant. Please contact the applicant directly or me at 970-563-0320, etolen@laplawd.org, if you have questions or wish to discuss this application in more detail.

Sincerely,



Edward Tolen
Southwest Basins Roundtable Chair

SOUTHWEST RIVER ENGINEERING

November 3, 2020

SOUTHWEST BASIN ROUNDTABLE
Edward Tolen, First Vice Chair
c/o La Plata Archuleta Water District
P.O. Box 1377
Ignacio, Colorado 81137
970-563-0320

Colorado Water Conservation Board
ATTN: Ben Wade
1313 Sherman St. Room 721
Denver, CO 80203

Dear Southwest Basin Roundtable and Dear CWCB Board Members,

Southwest River Engineering supports Mountain Studies Institute's (MSI) application on behalf of the Upper San Juan Watershed Enhancement Partnership's proposed project entitled "San Juan Basin Integrated Water Management Plan, Phase III."

This project assists in meeting state, regional, and local goals to increase understanding of Colorado's water needs, identify gaps, and promote projects and processes to address those needs. The San Juan Basin contains the headwaters of the San Juan River and other major tributaries that contribute to the larger Colorado River System. Understanding water resources in this project area provides critical information to improve current and prepare for future conditions.

Phases I and II began identifying opportunities to sustain and improve water sources in the San Juan Basin based upon inventories and modeling of environmental, agricultural, and recreational water uses. Phase III will complete this planning process by utilizing the results from Phase II's watershed assessment in conjunction with community values to outline goals, objectives, and project priorities in an Integrated Water Management Plan.

The WEP will also develop education resources and outreach events to ensure stakeholders can easily understand and apply the findings from this plan to fund and implement projects to meet multiple water uses in the San Juan Basin.

Southwest River Engineering looks forward to assisting in the implementation of the goals identified in Phase I and II for the improved efficiency of water use in the southwest portion of the state.

Sincerely,



Chris Pitcher P.E.





551 Hot Springs Boulevard
Post Office Box 1859
Pagosa Springs, CO 81147
Phone: 970.264.4151
Fax: 970.264.4634

October 30, 2020

Southwest Basin Roundtable
ATTN: Edward Tolen, First Vice Chair
c/o La Plata Archuleta Water District
P.O. Box 1377
Ignacio, Colorado 81137
970-563-0320

Colorado Water Conservation Board
ATTN: Ben Wade
1313 Sherman St. Room 721
Denver, CO 80203

Re: Grant Application Letter of Support

Dear Southwest Basin Roundtable Members:

On behalf of the Pagosa Springs Town Council, please accept this letter of support for the Mountain Studies Institute and the Upper San Juan Watershed Enhancement Partnership's (WEP) grant application for **Phase Three** of the Upper San Juan Basin Integrated Water Management Plan. Phase Three will entail planning, design and implementation of the projects identified in Phase Two of the Plan.

The Town Council is very supportive of the efforts of the WEP and finds much value in better understanding our community's water usage and needs for all water users, including recreational, municipal, and agricultural.

The Pagosa Springs Town Council is pleased to continue its support of this project into the next phase. Thank you for your consideration of this application.

Sincerely,

A handwritten signature in black ink, appearing to read "Don Volger", followed by a horizontal line.

Don Volger, Mayor



Five Rivers Chapter

October 30, 2020

Southwest Basin Roundtable
ATTN: Edward Tolen, First Vice Chair
c/o La Plata Archuleta Water District
P.O. Box 1377
Ignacio, Colorado 81137
970-563-0320

Colorado Water Conservation Board
ATTN: Ben Wade
1313 Sherman St. Room 721
Denver, CO 80203

Dear Southwest Basin Roundtable and CWCB Board:

On behalf of the Five Rivers Chapter of Trout Unlimited, I am writing to convey our support for Mountain Studies Institute's (MSI) proposed project "San Juan Basin Integrated Water Management Plan, Phase III."

As this project assists in meeting the Colorado Water Plan's goal of seeking to understand State water needs, identify gaps, and promote projects and processes to meet those needs, we feel this is an important next step to benefit all stakeholders.

We recognize that water use and availability in the San Juan River Basin are critical issues in maintaining the environmental and economic vitality of the area, and tourism and associated recreation are key elements of that vitality.

We understand this watershed assessment will identify opportunities to sustain and improve water resources in the San Juan Basin based upon inventories and modeling of environmental, agricultural, recreational, and municipal water uses. Current and future conditions and needs will be considered in conjunction with community values to develop a comprehensive and inclusive Integrated Water Management Plan.

We believe this concept proposal will facilitate continued public involvement in the Upper San Juan Watershed Enhancement Partnership's (WEP) effort in meeting the State of Colorado's Water Plan goal of promoting projects and processes to meet identified needs.

Respectfully submitted:

Frank (Buck) Skillen
President, Five Rivers Trout Unlimited



The Nature Conservancy in Colorado
2424 Spruce Street
Boulder, CO 80302

tel (303) 444-2950
fax (303) 444-2985
nature.org/colorado

January 19, 2021

Colorado Water Conservation Board
ATTN: Chris Sturm, Ben Wade
1313 Sherman St. Room 721
Denver, CO 80203

SOUTHWEST BASIN ROUNDTABLE

Edward Tolen, Chair
c/o La Plata Archuleta Water District
P.O. Box 1377
Ignacio, Colorado 81137

Subject: Matching Funds for San Juan Basin Integrated Water Management Plan, Phase III

Dear CWCB board members and Southwest Basin Roundtable,

The purpose of this letter is to confirm matching contributions and support from The Nature Conservancy towards Mountain Studies Institute's (MSI) proposed project, on behalf of the Upper San Juan Watershed Enhancement Partnership, for the "San Juan Basin Integrated Water Management Plan, Phase III."

The Nature Conservancy will **commit \$1,000 in matching cash funds** from our 2021 budget to support the Phase III goals and objectives of this project.

The Nature Conservancy also provided matching funds for Phases I and II of this project and is pleased to continue its support into Phase III. Please contact me should you need further information.

Sincerely,

A handwritten signature in cursive script, appearing to read "Celene Hawkins".

Celene Hawkins
Western Colorado Water Project Director/Colorado River Tribal Water Project Manager
The Nature Conservancy in Colorado

SIMPLE BUDGET

Task	Description	Target Start Date	Target End Date*	CWCB WRP Funds	CWCB Statewide WSRF Funds	CWCB Basin WSRF Funds	Other Funding Cash	Other Funding In-Kind	Total
1	Program Coordination & Stakeholder Engagement	6/1/2021	6/30/2023	\$ 17,375	\$ 7,819	\$ 869	\$ 8,688	\$ 18,206	\$ 52,956
2	Agricultural Infrastructure Analysis	6/1/2021	6/30/2023	\$ 14,875	\$ 6,694	\$ 744	\$ 7,438	\$ 5,750	\$ 35,500
3	Finalize Integrated Water Management Plan	6/1/2021	6/30/2023	\$ 12,500	\$ 5,625	\$ 625	\$ 6,250		\$ 25,000
	Subtotal			\$ 44,750	\$ 20,138	\$ 2,238	\$ 22,375	\$ 23,956	\$ 113,456
	Project/Grant Management			\$ 4,475	\$ 2,014	\$ 224	\$ 2,238		\$ 8,950
	TOTAL			\$ 49,225	\$ 22,151	\$ 2,462	\$ 24,613	\$ 23,956	\$ 122,406

*Phase III target schedule is 12 months/1 years, but additional time added to Target End Date to accommodate potential delays.

Tasks	Responsible Party	Task Details	Cost	Task Total
1. Project Coordination & Stakeholder Engagement	MSI Program Director	Project Oversight & Coordination	\$ 5,850	\$ 34,750
	MSI Project Lead	Facilitation, Outreach & Education Resources	\$ 15,750	
	MSI Team	Outreach Printing/Publishing Costs	\$ 1,000	
	Western Wildscapes	Community Outreach, Project support, Long Term Plan	\$ 12,150	
2. Agricultural Infrastructure Analysis	SJCD Team	Data Review, Inventory, Prioritize Projects	\$ 22,750	\$ 29,750
	SJCD Team	Data Access & Inventory Oversight	\$ 7,000	
3. Finalize Integrated Water Management Plan	Lotic Team	Develop Management Goals and Objectives	\$ 4,000	\$ 25,000
	Lotic Team	Identify Candidate Actions, Projects and Processes	\$ 4,000	
	Lotic Team	Evaluate and Prioritize Alternatives	\$ 8,500	
	Lotic Team	Plan for Implementation	\$ 5,000	
	Lotic Team	Develop Final Planning Document	\$ 3,500	
			Subtotal	\$ 89,500
Project/Grant Management	MSI Finance Team	Project/Grant Management Indirect Fee	Subtotal x 10%	\$ 8,950
			TOTAL	\$ 98,450

MSI = Mountain Studies Institute, SJCD = San Juan Conservation District, Lotic = Lotic Hydrological

Project Costs	\$	Percentage of Project Costs
CWCB-Watershed Restoration Program	\$ 49,225	50%
CWCB- Statewide Water Supply Reserve Fund	\$ 22,151	22.5%
CWCB-Basin Water Supply Reserve Fund	\$ 2,462	2.5%
Total CWCB Fund Request	\$ 73,838	75%
Cash Match	\$ 24,613	25.0%
In-kind Match	\$ 23,956	24.3%
Cash + In-kind Total	\$ 48,569	49.3%

In-kind Match	Amount	Status
Trout Unlimited Advising Services (160 hrs @ \$50/hr)	\$ 8,000	Committed
Steering Committee/Partner Meetings (2 hrs x 28.02 CO volunteer rate =	\$ 6,052	Anticipated
Public meetings (2 hrs x 25.96 volunteer rate = \$51.92 x 20 pax = \$1,038.4 x 4 meetings)	\$ 4,154	Anticipated
San Juan Conservation District Staff Time (50 hrs @ \$35/hr)	\$ 1,750	Committed
Natural Resources Conservation Service Staff Time (100 hrs @ \$40/hr)	\$ 4,000	Committed
In-kind Total	\$ 23,956	

Cash Match	Amount	Status
Archuleta County BOCC	\$ 2,500	Committed
Forever Our Rivers Foundation	\$ 4,216	Requested
Mountain Studies Institute	\$ 500	Committed
Pagosa Tourism Board	\$ 2,500	Requested
San Juan Water Conservancy District	\$ 2,000	Committed
Southwestern Water Conservation District	\$ 8,897	Requested
The Nature Conservancy	\$ 1,000	Committed
Town of Pagosa Springs	\$ 1,000	Requested
Trout Unlimited	\$ 2,000	Committed
Cash Match Total	\$ 24,613	

SWCD Request Only	
\$ 8,897	SWCD Request
\$ 39,672	Total Applicant Match
\$ 73,838	Total Other Funding
\$ 122,407	Total Project Cost

Previous SWCD Awards/Grants for "participation in public forums and the performance of studies" within past 5 years	
2018	\$ 13,945
2020	\$ 17,158
2021 (proposal)	\$ 8,897
Total SWCD Project Awards	\$ 40,000

Estimated Schedule, Phase III

Estimated Schedule, Phase III													
Tasks	Month (After Contract Initiation)												Total # of Meetings
	June - December 2021						2022						
	1	2	3	4	5	6	7	8	9	10	11	12	
Project Management/Steering Committee Meetings	X	X	X	X	X	X			X		X	X	9
Public Meetings		X		X						X		X	4
Education/Outreach Resources	X	X	X	X	X	X	X	X	X	X	X	X	
Agricultural Infrastructure/Water Needs Analysis	X	X	X	X	X	X				X		X	
Finalize Integrated Water Management Plan	X	X	X	X	X	X	X	X	X	X	X	X	

Timeline

Phase II tasks and funding will end in May 2021, with the target start date for Phase III beginning June 2021 to continue momentum with stakeholders, planning and project development over a 12-month period. Currently, the Upper San Juan Watershed Enhancement Partnership (WEP) is planning on hosting all meetings remotely, unless special circumstances require an in-person site visit, in which all state COVID-19 guidelines would be upheld to reduce risk for all involved parties. The outlined target end date of 2023 in the budget accounts for potential delays and adaptations related to the COVID-19 pandemic to ensure this group abides state health guidelines and continues safe practices in the development and implementation of the IWMP.

Tasks 1 & 3:

- Mountain Studies Institute (MSI), Western Wildscapes (WW), Lotic Hydrological, and San Juan Conservation District (SJCD) will coordinate project management/steering committee meetings on a flexible schedule based on project needs, but these will likely occur every month for the first six months, break over winter holidays, and return for three remaining meetings to finalize project priorities and the IWMP.
- Public stakeholder meetings will be broken down into two focused workshops within the first six months of Phase III, to gather key community decision makers and managers for initial discussions on IWMP goals, objectives and potential actions. This will provide initial example plans and lists to share with the general public for feedback on prioritization and alterations during the two remaining scheduled public meetings within the last six months of Phase III.
- Outreach resources will be development and communication by MSI and Western Wildscapes throughout this final phase. In the first three months, MSI will work with Fort Lewis College to create an ArcGIS StoryMap education tool by collecting content, photos, and maps; organize into a draft in the fall/winter; and finalize by spring/early summer of 2022.
- Lotic and the WEP will work with stakeholders to develop an Integrated Water Management Plan throughout Phase III, completing the document by early summer 2022.

Task 2:

SJCD will conduct field work to evaluate agricultural infrastructure over the first four months of Phase III, during the summer/early fall of 2021. Crews will start work in the Rio Blanco and move down to the upper Navajo River, depending on time and budget. SJCD will also participate in steering committee and public meetings to help articulate project opportunities and priorities.

2021 SWCD Grant Program – Staff Application Review (Date: **1-12-21** Follow-up Date: **1-14-21**)

Applicant/Project: **Montezuma School to Farm Project – Colorado Water Plan Education Initiative Materials**

<u>Total Project/Phase Cost</u>	<u>Amount of Request SWCD funds</u>	<u>Applicant Match (Cash / In-Kind)</u>	<u>Other Funding Sources</u>
\$10,000	\$5,000	\$2,500	Montezuma Inspire Coalition (GOCO) \$2,500; CSCB \$2,500
	(less than 50% of total)	(at least 25% of total)	

<u>Project Type</u>	<u>Limits (Annual Max/5 Year Max Since 2018)</u>	<u>SWCD Request</u>
Education	\$5,000 / \$10,000	\$5,000
Water Supply/Restoration	\$75,000 / \$150,000	
Public Forums/Workgroups	\$20,000 / \$40,000	
Emergency	No limit specified	

Statutory Purposes of SWCD (C.R.S. 37-47-101)

Conservation of San Juan & Dolores rivers for storage, irrigation, mining, or manufacturing Purposes; Construction of reservoirs, ditches and works of irrigation and reclamation of lands not yet irrigated, as well as supplemental supply; Promotion of the health and general welfare of State of Colorado; and Safeguarding of water to which Colorado is equitably entitled.

If educational, does the project/program complement SWCD's existing efforts? **Yes.**

Pre-Compact Water Right	Yes <u> </u>	No <u> X </u>
--------------------------------	-------------------	------------------------

<u>Application Information</u>	<u>Criteria Met:</u>
Date Received	X
Eligible Entity	X
Required Match	X
Less than 50% of Total Project Cost	X
Project Type, Description, Location	X
Anticipated Project Timeline	X
Detailed Project Expense Budget	X
No Legal, Payroll, or Grant Admin Costs supported by SWCD	X
Identification of Project Beneficiaries & Partners	X
Summary of Previous SWCD Funding Requests and Awards	X
Not For a Project That Was Already Completed	X
Use of Funds in 2021	X
Has Secured Remaining Project Funding	X
Purposes of District	X
-Pre-Compact	
-Compact Development & Entitlement	X
-Health & Welfare	X
-Irrigation & Storage	X

Staff Recommendation: **Approve in full.**

Applicant Grant History

Date	Name	Notes	Amount
2021	MSTFP	Colorado Water Plan Education Initiative Materials <i>(Requested)</i>	<i>\$5,000</i>
			\$5,000

Director Notes/Questions:

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THE SOUTHWESTERN WATER CONSERVATION DISTRICT

Developing and Conserving the Waters of the
SAN JUAN AND DOLORES RIVERS AND THEIR TRIBUTARIES
IN SOUTHWESTERN COLORADO

GENERAL APPLICATION FOR FINANCIAL ASSISTANCE

SWCD SUBMITTAL CHECKLIST	
Required, Please Initial	
GR	I acknowledge I have read and understand the 2021 SWCD Grant Program Guidelines .
GR	The financial request to SWCD does not exceed 50% of the total project cost.
GR	The applying organization is funding at least 25% of the total project cost.
GR	The request is for funds to be used in 2021, for a project to be completed in 2021.
GR	I understand that SWCD does not fund payroll, legal, or grant administration costs.
GR	I have included a <u>detailed</u> project expense budget.
GR	I have included a <u>detailed</u> project funding budget.
GR	I have consulted with SWCD staff to ensure all minimum criteria has been met.
Optional	
	Feasibility and/or Engineering Studies
	Maps
	Photos
GR	Letters of Support

WATER ACTIVITY SUMMARY			
Date of Submittal	12/11/2020		
Type of Request	Grant <input checked="" type="checkbox"/>	Loan <input type="checkbox"/>	Grant/Loan Package <input type="checkbox"/>
Project Name	Montezuma CWP Education Initiative Materials		
Applicant	Montezuma School to Farm Project		
Project Location (River Basin)	Montezuma County (Dolores, Mancos, McElmo)		
Amount of Request	\$5,000		
Total Project Cost	\$10,000		
Applicant Match	\$5,000		
Year for Use of Funds	2021		

WATER ACTIVITY CATEGORY		
X	Limit	Category
	\$75,000	Water Supply/Watershed Restoration: Water supply or watershed restoration projects, including design, engineering, and construction
	\$20,000	Public Forums/Studies: Public forums, work groups, studies, planning efforts
x	\$5,000	Education: Teaching seminars, workshops, and related programs
	N/A	Emergency: Situations arising from catastrophic or unforeseen events
<p>Note: The amount of funding each applicant may receive is further limited by the funding received in any given five-year period, as well as the total amount allocated to each category by the board. Review the guidelines carefully and consult staff if needed (970-247-1302).</p>		

APPLICANT INFORMATION	
Name of Authorized Entity	Montezuma School to Farm Project
Type of Qualified Entity (See Guidelines)	501(3) non-profit
Mailing Address	P.O. Box 694 Mancos, CO 81328
Federal ID Number	84-4298006
Contact Person	Gretchen Rank
Position/Title	Executive Director
Phone Number	970-560-5638
Email	director.mstfp@gmail.com

APPLICANT DESCRIPTION
Please provide a brief description of the applying entity. For ditch companies, please provide the number of shareholders, acres served, and annual assessment.
<p>Montezuma School to Farm Project began in 2009 as a farm field trip. The goal was to encourage environmental stewardship and ignite pride in local agriculture. This effort grew to building and maintaining school gardens. The educational pieces were integrated into daily curriculum and expanded to public schools in the county. Currently, MSTFP works with the Mancos, Cortez, and Dolores School Districts on curriculum, providing hands-on experiential education for k-12 students. Programs include lessons on conservation, science, math, art, and literature, summer programming, high school FarmCorps cohorts, and paid internships.</p>

WATER ACTIVITY DESCRIPTION
Please provide a narrative description of the activity's physical location, as well as its purpose and benefits. Provide a description of the water supply source to be utilized or the water body affected by the project. If possible, include measureable results such as acres served, watersheds impact, types of crops, number of taps, length of ditch improvements, length of pipe installed, area of habitat improvements, or students impacted. Photos, maps, or other graphics can be inserted here or attached.
Please explain how the project assists SWCD in furthering its statutory mission to protect, conserve, use, and develop the water resources of southwestern Colorado, as well as safeguard all waters to which Colorado is entitled. Specifically, if you project enhances or preserves any pre-compact water rights, please describe the quantities, appropriation dates, and adjudication dates of those rights. For help acquiring water rights information, call DWR (970-247-1845).
<p>MSTFP seeks to utilize its existing capacity to implement detailed Colorado Water Plan curriculum with a focus on SW Colorado needs and water systems. The Montezuma CWP Education Initiative will develop K-12th curriculum centered around the CWP for over 2,100 students in the county. These lessons will take place on school grounds at MSTFP gardens and growing spaces. Our programming will focus on three age ranges: elementary, middle, and high school students. Montezuma School to Farm Project (MSTFP) will create a K-8th grade curriculum map with lessons that build on each other from one year to the next. Topics will cover conservation, water as a crucial resource, watershed health, soil and drought conditions, and human impacts. These lessons combined create a holistic picture of water importance for students, from the soil that facilitates plant growth to water in their own homes. These lessons will have specific focus on the three local southwest sub-basins: the Mancos, the Dolores, and</p>

McElmo Creek. Building on this curriculum, MSTFP will outline middle school lessons and programs focusing on hands-on applications of water conservation. This will include how MSTFP grows over 4,000lbs of produce annually utilizing water saving methods. Students will learn about, observe, and partake in growing thousands of pounds of produce using a one 1.5" "lay flat" mainline connected to 5/8" drip tape, agriculture practices that regenerate the soil, cover crop rotations to improve soil watering capacity, and the communication among local partners required to sustainably produce food. These lessons will incorporate more complex math and science ideas and topics. For high school students, MSTFP will expand its internship and FarmCorps programs to provide older students with water conservation and sustainable agricultural career pathways. It is crucial to start environmental education early to ensure the future generation is passionate about water conservation in Colorado. Local water sources will be used as examples to promote SW Water Conservation District's mission in protecting local water resources. This adaptable, holistic approach will equip our students with necessary knowledge and skills to better understand water conservation. Young leaders will have the education necessary to be passionate about water stewardship. Funding from the SW Water Conservation District Grant Program will be used for materials, such as agricultural water conservation supplies, manipulatives for STEM, infographics, etc., to bring CWP and water conservation curriculum to over 2,100 students in 2021.

WATER PROJECT TIMELINE

Please provide a narrative description of the timeline for the project's major tasks and/or a detailed outline.

Overall, MSTFP's Montezuma CWP Education Initiative will include two years of programming in collaboration with the Colorado Water Conservation Board and Southwest Basins Roundtable. The funding requested from SW Water Conservation District specifically and its match will be utilized for materials during programming in 2021, which is 03/01/2021-11/30/2021. MSTFP will then adapt its curriculum to adjust to new water plans, updated state policies, and local changes. Major tasks include, 1) creating an intentional, comprehensive K-8th curriculum map around the Colorado Water Plan and Southwest Basin Implementation Plan with 5-7 lessons per grade; 2) engaging over 2,100 elementary and middle school students in water conservation topics specific to SW Colorado, including over 210 garden classes; 3) provide career pathway programs for middle and high school students relating to water conservation, sustainability, and environmental science; and 4) creating a water related section in the MSTFPkids.org, and at-home materials and activities in case of school closures due to the COVID-19 pandemic.

ENGINEERING AND LEGAL FEASIBILITY

Will the Project require the acquisition of an additional water right or change of existing water rights? If yes, please explain.

No

Will the Project require state or federal regulatory permits of any type? If yes, please explain.

No

Please list below and attach to this application any feasibility studies or investigations that have been completed or are now in progress for the proposed project.

In early 2020, MSTFP conducted its own study on local opinions and priorities related to the

county's educational system. Our surveys found that 80.6% of parents, 68.96% of county teachers, 91.93% of community members prioritize teaching conservation and drought resiliency to students. After communication with school districts and increasing school representation on our Board of Directors and Programs Committee, we found that teachers often have too much on their plates to prioritize outside curriculum inside their classrooms. Through this collaboration, MSTFP will be a supportive role in the endeavor to increase conservation awareness within students that live in a water-vulnerable community. This will relieve the burden on teachers and provide students with important educational resources and career pathways.

MSTFP also found that the garden classes impassion students to be environmental stewards. 90.32% of students said that garden classes increased their interest in agriculture and/or environmental science. 29.03% of students stated that garden classes increased the likelihood of them continuing environmental education in high school and of them planning a future career in the environmental industry. It is important to note that over 50% of students stated that this was not applicable to them since they have not started planning for high school or careers due to their age. This data shows that outdoor learning environments help foster environmental stewardship. With an increase in water conservation programming, it is likely that MSTFP's garden classes and career pathways will further impact students and their professional and educational goals.

WATER ACTIVITY BUDGET

Please provide any narrative description of the project expense and funding budget that is necessary. Please describe in-kind contributions, if any, and the anticipated decision date for those funding requests that have not already been approved.

MSTFP will provide 2,100 students lessons on water conservation annually. Each lesson will include projects, outreach, and other materials to engage students more effectively. The total projected materials budget for 2021 is \$10,000. MSTFP is requesting \$5,000 from SWCD for programming materials starting March 2021. Match includes \$2,500 secured from the Colorado State Conservation Board, which is comprised of Conservation District representatives from Colorado's 10 watersheds and provides guidance to the Department of Agriculture, and \$2,500 from MSTFP's AmeriCorps Cohort in-kind hours. The AmeriCorps Cohort will aid in acquiring supplies, lesson material organization, and planning. We did not include CWP Colorado Water Conservation Board in match because its programming budget schedule begins June 2021. Some of the material purchases would take place prior to that start date to allow for program planning and lesson prep. Additionally, the Colorado Water Conservation Board will decide funding allocations in March 2021. No matter that outcome, the SWCD funds will be used to start the Montezuma Colorado Water Plan Education Initiative. The CWCB funds will continue the work started in early 2021.

MATCHING REQUIREMENTS

Applicants must demonstrate that they are actively contributing to the project for which they are requesting funding. Any grant approval will be contingent upon the recipient ultimately demonstrating that they have secured funding for the full project cost.

In addition, applicants must also demonstrate that they will provide, through a cash contribution and/or the performance of in-kind services, at least 25% of the total project costs. See the guidelines and speak to staff for further clarification. Attach additional information if necessary.

Contributing Entity	Amount and Form of Match
---------------------	--------------------------

	(note cash or in-kind)
Montezuma to School Farm Project (In-Kind AmeriCorps Hours)	\$2,500.00 in-kind
Colorado State Conservation Board	\$2,500.00 cash
Total Applicant Match (At Least 25%)	\$2,500.00 in-kind
Total Other Funding	\$2,500.00 cash
SWCD Request (Up to 50% of Project Cost)	\$5,000.00
Total Project Cost	\$10,000.00

WATER PROJECT BUDGET

Please provide a detailed project budget. You can use the template below or provide a more detailed table in an attachment.

Note: Please describe any payroll or legal costs, as well as any costs for administering this and other grants. SWCD will not fund those portions of the project.

Task/Materials Description	Funded By (Applicant, SWCD, Other)	Amount
Materials for Elementary Garden Classes	CSCB	\$1,000.00
-	SWCD	\$2,000.00
Materials for Middle School Programs	CSCB	\$1,000.00
-	SWCD	\$2,000.00
Materials for Professional Pathway Programs	CSCB	\$500.00
-	SWCD	\$1,000.00
Time for Prep (In-Kind AmeriCorps)	Applicant	\$2,500.00
Total Project Cost		\$10,000.00
Grant Administration Costs as a Percentage of Total Project Cost		0%

PREVIOUS SWCD AWARDS AND REQUESTS

Please list all previous request and awards from SWCD by year, amount, and project title. Please ensure that your entity does not exceed the five year limits on awards outlined in the [guidelines](#).

N/A

APPLICANT LIABILITY OR INDEBTEDNESS

Please list any existing long-term liability (multi-year) or indebtedness that exceeds one thousand dollars. This might include bank loans, government agency loans, or bond issues. Please provide the lender name, address, remaining principal, annual payment, and maturity date. If any of these liabilities are currently in default or have been in default at any time in the past, please provide a detailed explanation. Attach a separate schedule as necessary.

N/A

FOR LOAN REQUESTS

Please identify all revenue sources for the applicant that would be available to repay SWCD should financial assistance be offered in the form of a loan.

N/A

APPLICANT SIGNATURE

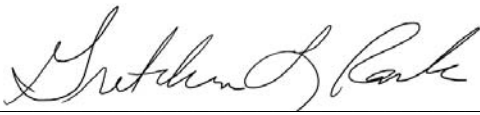
By signing below, I acknowledge I have read the SWCD Grant Program guidelines, I understand the program requirements, and I submit this application, which is complete and true to the best of my knowledge.

Should the grant funds be awarded, I commit to requesting funds when they are needed, and using them only for the specific purpose and amount indicated in my application. SWCD requires written documentation of all committed project funds prior to disbursement.

I understand that if the project is under budget, there is an expectation that grant funding will be returned to SWCD in the proportion the project was under budget.

I understand that if the intended use of grant funds changes, board approval will be necessary. I also understand that SWCD may require additional documentation regarding the use of the funds at its discretion.

I acknowledge SWCD's requirement for a final written report, including a description of work completed and a detailed accounting of the use of funds.



Signature

____12/11/2020____
Date

Printed Name __Gretchen Rank____

Please sign and submit the completed application and any supplemental information via email to lauras@swgcd.org or mail it to SWCD 841 E. 2nd Ave., Durango, CO 81301.

Do not hesitate to contact staff with any questions as you develop your application:
Laura Spann, 970-247-1302, lauras@swgcd.org



County Commissioners: Board of County Commissioners

Larry Don Suckla

Jim Candelaria

Keenan G. Ertel

County Administrator:

Shalako L. Powers

109 West Main, Room 260

Cortez, CO 81321

(970) 565-8317

(970) 565-3420 Fax

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

Re: Colorado Water Plan Grant

November 24, 2020

REF: Montezuma School to Farm Project

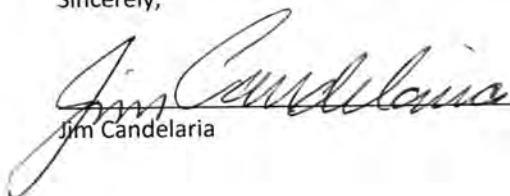
Dear Colorado State Conservation Board,

In our capacity as representatives of the Montezuma County Commissioners, we write this letter to voice support for the Montezuma School to Farm Project (MSTFP) and its intent to widely incorporate programming around the Colorado Water Plan and the Southwest Basin Implementation Plan. Water conservation is a top priority for Montezuma County and its Board of Commissioners. Drought, wildfires, increasing temperatures, and population growth all contribute to a greater strain on the county's water systems. The educational pieces MSTFP will deliver will help spread awareness of these issues and develop a professional pipeline for future county leaders.

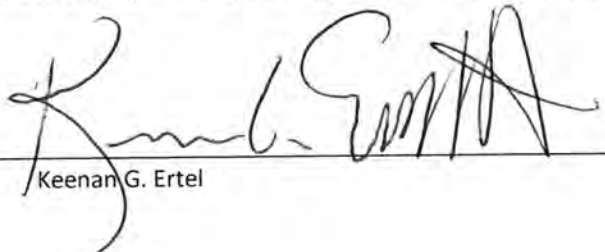
The Four Corners Region is perhaps the hardest hit area in the county in terms of increasing droughts. A significant portion of Montezuma County's economy relies on water, including agriculture, tourism, food services, and recreation. As the water supply is strained, these economic avenues are impacted. This picture is worrisome. However, Montezuma County is committed to being aware, educated, and innovative as our local landscapes change. We share these priorities of innovation with MSTFP. They have always adapted programming to fit Montezuma County needs. The County Commissioners believe they will take this innovative mindset and apply it to water conservation curriculum.

The Montezuma County Board of Commissioners wants to ensure all students in the county have access to high-quality education and programs. MSTFP helps us in this endeavor by providing tailored curriculum and engaging learning spaces throughout the county. MSTFP works in 6 elementary schools, 1 middle school, and 2 high schools in the county. Their impact goes far beyond the classroom. They help develop students to be forward thinkers and navigators. Montezuma County needs students who are prepared to confidently tackle modern-day problems. The Board of Commissioners for Montezuma County endorses MSTFP's efforts to support the next generation of water stewards. Our students are our legacy, and we approve of programming that helps them achieve success.

Sincerely,



Jim Candelaria



Keenan G. Ertel



**EVERY STUDENT.
EVERY DAY.**

P.O. Box R
400 North Elm Street
Cortez, Colorado 81321
Phone: (970) 565-7282
Fax: (970) 565-2161

www.cortez.k12.co.us

Colorado Water Conservation Board
1313 Sherman St., Denver, CO 80203
Re: Colorado Water Plan Grant

November 17, 2020

Colorado Water Conservation Board,

The Montezuma-Cortez School District writes to the Colorado Water Conservation Board to express sincere support for Montezuma School to Farm Project (MSTFP). The local non-profit has built four elementary school gardens in our district, developed a production plot at the local middle school, and partners with several high schools by providing free produce and growing spaces. These fixtures improve the community landscape while also allowing students to experience high quality education in an interactive environment. These learning environments have been phenomenally successful in impacting students, engaging them with holistic education, and deepening their learning of topics covered.

We are seeing that the students take great pride in the gardens, their local landscapes, and agriculture in general. Their environmental stewardship is now on the forefront of their minds. We have no doubt that MSTFP incorporating water conservation lessons in their curriculum will improve the students' overall education. Our kids need to comprehend the significance of water conservation and the importance of our natural resources. This education will better prepare them for the future problems, available jobs, and problem solving.

The partnership between MSTFP and the Montezuma--Cortez School District represents educational innovation, promotes healthy lifestyles, and increases efforts to protect our environment and resources. The production plot and garden spaces will provide the perfect backdrop for the critical education around water conservation in a drought prone community.

Sincerely,

Lori Haukeness
District Superintendent
lhaukeness@cortez.k12.co.us

SOUTHWEST BASINS ROUNDTABLE

C/O La Plata Archuleta Water District
PO Box 1377
Ignacio, Colorado 81137

November 23, 2020

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

Re: Colorado Water Plan Grant

Colorado Water Conservation Board,

The Southwest Basin Roundtable writes this letter to express support for Montezuma School to Farm Project (MSTFP) as it requests funding for implementing curriculum based on the Colorado Water Plan and the Southwest Basin Implementation Plan. This level of outreach and advocacy will help the Southwest Basin Roundtable and the Colorado Water Conservation Board reach its water system goals and objectives.

Montezuma County territory includes three of the nine distinct southwestern sub-basins: the Mancos, McElmo Creek, and the Dolores, all of which flow out of Colorado. Mesa Verde National Park, Canyons of the Ancients National Monument, and the Ute Mountain Ute Tribe are located within the county. Therefore, water conservation efforts in Montezuma County should be encouraged to support the complex water system and legal governing of water in the area, as well as meet gaps in water needs. This is especially true as Montezuma County's population, temperatures, and droughts increase.

Water conservation efforts are likely to not be as effective when there is not significant community awareness and support. Education and outreach are critical for success of the Colorado Water Plan. Objectives described in the Southwest Basin Roundtable Education Action Plan align with the work set forth by MSTFP. MSTFP's lessons and programming will equip thousands of students in the county with information on water conversation, sustainable agricultural, soil health as it relates to watersheds, and provide career pathways for students. This project will provide Montezuma County students with valuable education opportunities and create future leaders with a passion and advocacy for water conversation.

MSTFP will help the Southwest Basin Roundtable reach its future goals as the Colorado Water Plan and the Southwest Basin Implementation Plan change and adapt to ever-evolving landscapes. This is one reason the Southwest Basin Roundtable supports this educational campaign. We are confident that MSTFP will be an innovative, intentional, and impactful partner in our efforts to conserve water in the Southwest Basin. They will inform thousands of community members on critical topics and objectives set forth by the Southwest Basin Roundtable and Colorado Water Conservation Board.

Sincerely,



Edward Tolen
Southwest Basins Roundtable Chair

Mancos Elementary School

Cathy Epps, PK-5 Principal
cepps@mancosre6.edu

Alice Miller, Administrative Assistant
amiller@mancosre6.edu

Shanda Dalling, Behavior Analyst
sdalling@mancosre6.edu



301 West Grand Ave
Mancos, CO 81328
Ph: (970) 533-7744
Fx: (970) 533-1165

"In partnership with our community, we will foster safe, positive, and rigorous learning experiences."

Colorado Water Conservation Board
1313 Sherman St., Denver, CO 80203
Re: Colorado Water Plan Grant

11/16/2020

Colorado Water Conservation Board,

It's with great excitement that the Mancos School District supports Montezuma School to Farm Project. MSTFP has been in our schools for over ten years and has consistently improved our educational system. The Mancos School District is excited for MSTFP to expand its programming and provide lessons and programming relating to the Colorado Water Plan. MSTFP has been incredibly successful at incorporating important issues into the school system.

Teachers, staff, and administrators consistently voice support for MSTFP. At every grade level, teachers have stated that MSTFP programs improve their students' learning experiences, increases students' excitement towards attending schools, and helps them teach core curriculum. Additionally, students have stated that MSTFP programming made them more interested in high school programs and careers in environmental science industries. We have no doubt these outcomes will transfer to water conservation curriculum.

We have found that students are incredibly impassioned when in experiential learning environments, especially when it comes to environmental stewardship. Water conservation is a top priority in Mancos, CO. Equipping students with the ability to address resource depletion, specifically water depletion, and learning how to conserve water will prepare them for their futures. Students need to be prepared to tackle an ever-changing landscape. MSTFP's Colorado Water Plan curriculum will improve our educational system and prepare students for their futures, while providing interesting and focused learning.

Sincerely,

A handwritten signature in blue ink, appearing to read "C. Epps".

Cathy Epps
Mancos PK-5 Principal
cepps@mancosre6.edu
970-533-7744



Southwest Open School

P.O. Box DD, Cortez, Co 81321

Phone 970-565-1150

Fax 970-565-8770

September 20, 2020

Re: Support for Montezuma School to Farm Project

Dear Grants Committee:

It is my pleasure to write this letter of strong support and enthusiasm for the proposed work that the Montezuma School to Farm Project is wishing to undertake. The students benefiting from this project, particularly the students and students' families from Southwest Open School, will reap the rewards from the expansion of this work.

As the Director of the Southwest Open School, I can attest to the ongoing collaborative relationship with the Montezuma School to Farm Project. Together, we can provide youth development programming in the areas of service-learning, leadership development, and character development. We are thrilled to continue collaboration with MSTFP in order to provide support to the program in the following areas:

- Educational programming related to service learning, leadership and character development
- Strong academic enrichment and credit offerings outside of the school year
- Continued youth development programming in future endeavors

It is our sincere hope that you will give this proposal your most careful consideration. The impact of this future work is substantial. Our students will be able to interface with the Montezuma School to Farm Project in new and meaningful ways. Children in our rural community face many barriers to success and we believe that this proposal will provide opportunities to the children, their families and the community that they may not have otherwise.

Sincerely,

Matthew Keefauver

Director, Southwest Open School