



Last Updated: November 2018

Colorado Water Conservation Board

Water Plan Grant Application

Instructions

To receive funding for a Water Plan Grant, applicant must demonstrate how the project, activity, or process (collectively referred to as “project”) funded by the CWCB will help meet the measurable objectives and critical actions in the Water Plan. Grant guidelines are available on the CWCB website.

If you have questions, please contact CWCB at (303) 866-3441 or email the following staff to assist you with applications in the following areas:

Water Storage Projects	Anna.Mauss@state.co.us
Conservation, Land Use Planning	Kevin.Reidy@state.co.us
Engagement & Innovation Activities	Ben.Wade@state.co.us
Agricultural Projects	Alexander.Funk@state.co.us
Environmental & Recreation Projects	Chris.Sturm@state.co.us

FINAL SUBMISSION: Submit all application materials in one email to waterplan.grants@state.co.us in the original file formats [Application (word); Statement of Work (word); Budget/Schedule (excel)]. Please do not combine documents. In the subject line, please include the funding category and name of the project.

Water Project Summary	
Name of Applicant	Valley Floor Preservation Partners
Name of Water Project	Telluride Valley Floor River Restoration Phase Two
CWP Grant Request Amount	\$ 215,000
Other Funding Sources - <u>Idarado Consent Decree/State of Colorado</u>	\$ 1,731,340
Other Funding Sources - <u>CWCB/WSRA Funds</u>	\$ 275,000
Other Funding Sources - <u>Town of Telluride & Trout Unlimited</u>	\$ 712,560
Applicant Funding Contribution	\$ 400,000
Total Project Cost	\$ 3,333,900



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Applicant & Grantee Information	
Name of Grantee(s): Valley Floor Preservation Partners	
Mailing Address: PO Box 202, Telluride, CO 81435	
FEIN: 20-4889403	
Organization Contact: Hilary Cooper	
Position/Title: Program Manager	
Email: hilary@mountainfreak.com	
Phone: 970-729-2321	
Grant Management Contact: Same	
Position/Title	
Email	
Phone	
Name of Applicant (if different than grantee)	
Mailing Address	
Position/Title	
Email	
Phone	
Description of Grantee/Applicant	
Provide a brief description of the grantee's organization (100 words or less).	
<p>Valley Floor Preservation Partners, a 501c3, was formed as a partnership of the Town of Telluride, Sheep Mountain Alliance, National Trust for Historic Preservation and the Telluride Institute. VFPP was established in March 2006 to support the Valley Floor acquisition and preservation efforts of the Town of Telluride and to launch a final fundraising and education campaign. After successfully completing the fundraising campaign and securing the Valley Floor as Open Space, VFPP now seeks to foster stewardship and ecological restoration projects for the Valley Floor property.</p>	



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Type of Eligible Entity (check one)	
	Public (Government): Municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities. Federal agencies are eligible, but only if they can make a compelling case for why a local partner cannot be the grant recipient.
	Public (Districts): Authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises.
	Private Incorporated: Mutual ditch companies, homeowners associations, corporations.
X	Private Individuals, Partnerships, and Sole Proprietors: Private parties may be eligible for funding.
	Non-governmental organizations (NGO): Organization that is not part of the government and is non-profit in nature.
	Covered Entity: As defined in Section 37-60-126 Colorado Revised Statutes .

Type of Water Project (check all that apply)	
	Study
X	Construction
X	Identified Projects and Processes (IPP)
	Other

Category of Water Project (check the primary category that applies and include relevant tasks)	
	Water Storage - Projects that facilitate the development of additional storage, artificial aquifer recharge, and dredging existing reservoirs to restore the reservoirs' full decreed capacity and Multi-beneficial projects and those projects identified in basin implementation plans to address the water supply and demand gap. <i>Applicable Exhibit A Task(s):</i>
	Conservation and Land Use Planning - Activities and projects that implement long-term strategies for conservation, land use, and drought planning. <i>Applicable Exhibit A Task(s):</i>
	Engagement & Innovation - Activities and projects that support water education, outreach, and innovation efforts. Please fill out the Supplemental Application on the website. <i>Applicable Exhibit A Task(s):</i>
	Agricultural - Projects that provide technical assistance and improve agricultural efficiency. <i>Applicable Exhibit A Task(s):</i>
X	Environmental & Recreation - Projects that promote watershed health, environmental health, and recreation. <i>Applicable Exhibit A Task(s): Tailings Remediation, River Restoration, Construction Operations & Project Management</i>



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	Other	Explain:
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Location of Water Project

Please provide the general county and coordinates of the proposed project below in **decimal degrees**. The Applicant shall also provide, in Exhibit C, a site map if applicable.

County/Countries	San Miguel
Latitude	37.939237 degrees N
Longitude	-107.824902 degrees W

Water Project Overview

Please provide a summary of the proposed water project (200 words or less). Include a description of the project and what the CWP Grant funding will be used for specifically (e.g., studies, permitting process, construction). Provide a description of the water supply source to be utilized or the water body affected by the project, where applicable. Include details such as acres under irrigation, types of crops irrigated, number of residential and commercial taps, length of ditch improvements, length of pipe installed, and area of habitat improvements, where applicable. If this project addresses multiple purposes or spans multiple basins, please explain.

The Applicant shall also provide, in Exhibit A, a detailed Statement of Work, Budget, Other Funding Sources/Amounts and Schedule.



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Telluride’s Valley Floor is the 600-acre preserved open space located at the headwaters of the San Miguel River. This project will restore approximately 35-acres impacted by mine tailings, which contain toxic heavy metals and realign approximately 4,600 feet of river. Restoration and remediation will result in a naturally functioning river system. Specifically, the project goals include:

1. Reduce the threat to public health and the environment by consolidating and capping in place heavy-metal-laden mine tailings.
2. Realign the river away from tailings and through clean, native soils.
3. Eliminate artificial channelization and re-establishing natural channel dimensions, patterns and floodplains.
4. Re-establish instream riffle-pool aquatic habitat, connection with the riparian floodplain and restoration of ecological habitats, including critical habitat for cold-water fish.
5. Maintain existing mature native vegetation.

The project design and budgeting are complete. Requested funding will be applied to the construction of the project.

The overall purpose of the Telluride River Restoration and Tailings Remediation Phase Two is to improve the environmental quality of the San Miguel River, surrounding riparian habitat, and enhance recreation opportunities such as hiking, biking, fishing and boating. The Valley Floor is used for multiple educational purposes including watershed science for regional schools.

Measurable Results

To catalog measurable results achieved with the CWP Grant funds, please provide any of the following values as applicable:

0	New Storage Created (acre-feet)	
0	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Non-consumptive	
0	Existing Storage Preserved or Enhanced (acre-feet)	
4,600	Length of Stream Restored or Protected (linear feet)	
0	Efficiency Savings (indicate acre-feet/year OR dollars/year)	
35	Area of Restored or Preserved Habitat (acres)	
0	Quantity of Water Shared through Alternative Transfer Mechanisms	
0	Number of Coloradans Impacted by Incorporating Water-Saving Actions into Land Use Planning	
100/year	Number of Coloradans Impacted by Engagement Activity	
	Other	Explain:



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Water Project Justification
<p>Provide a description of how this water project supports the goals of Colorado's Water Plan, the most recent Statewide Water Supply Initiative, and the applicable Roundtable Basin Implementation Plan and Education Action Plan. The Applicant is required to reference specific needs, goals, themes, or Identified Projects and Processes (IPPs), including citations (e.g. document, chapters, sections, or page numbers).</p> <p>The proposed water project shall be evaluated based upon how well the proposal conforms to Colorado's Water Plan Framework for State of Colorado Support for a Water Project (CWP, Section 9.4, pp. 9-43 to 9-44;)</p>
<p>This Project supports the Goals of the Colorado Water Plan, SWSI and Southwest Basin Roundtable's BIP and Education Action Plan.</p> <p>Colorado Water Plan, Chapter 10: Critical Action Plan. The project addresses Goal F of promoting Watershed Health, Environment and Recreation by improving water quality, recreation opportunities, aquatic life and wetlands. This project will remediate a mining legacy Superfund site and improve riparian habitat at the headwaters of the San Miguel River Basin. It will also address Goal H of Education, Outreach and Innovation by improving current educational opportunities for the Watershed Education Program, San Miguel Watershed Coalition, Telluride Institute and regional schools. Colorado's Foundation for Water Education conducted a tour of the successfully complete Reach One of the Valley Floor River Restoration in 2017 for water leaders and State lawmakers and would be welcome to conduct a follow up tour. A film, Meander, was produced about the Reach One project that reached audiences around the world on a documentary film tour. The Valley Floor is being evaluated as a climate change mitigation opportunity for the Telluride Region to determine the amount of carbon sequestration and vegetation productivity. This project will add valuable understanding to how our natural landscapes can be managed productively to reduce our carbon footprints into the future.</p> <p>2010 Statewide Water Supply Initiative Pg 8 The Overall Recommendation states that "CWCB, the IBCC, and basin roundtables should now enter an implementation phase to determine and pursue projects and methods to help meet the state's consumptive and non-consumptive water supply needs".</p> <p>This project will address multiple purposes including environmental, recreational and risk management.</p> <p>It will also meet Colorado's non-consumptive water needs by promoting the recovery and sustainability of the endangered Southwest Willow Flycatcher, protecting and enhancing environmental and recreational values benefiting the local and statewide economies, benefit water users and native species and improve habitat that will benefit aquatic and riparian habitat and stream recreation.</p> <p>This project will also continue to provide an important educational and stewardship opportunity for all Coloradoans.</p> <p>BIP Page 13, Table 1</p>



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The Project meets multiple Goals outlined in this section of the BIP including A2, A5, D1, E1, E2 and F1. These are detailed in the language above. In addition, the project will enhance recreational water uses such as fishing, boating, wildlife watching, hiking and biking.

Restoration of the San Miguel River on the Valley Floor is listed on the Basin's Identified Projects and Processes list.

The Project meets a majority of the CWP Framework for a Water Plan Project. This project addresses multiple needs and involves multiple participants. Any management decision that is approved for the Valley Floor must go through a thorough stakeholder process and be approved by the Town of Telluride. The Valley Floor River Restoration is included as a BIP to address multiple values. The project has been developed by a partnership of Ecological Resources Consultants, San Miguel Conservation Foundation and the Town of Telluride, and meets stringent conservation values, best management practices and cost-effective measures established through this long-term successful collaboration. The majority of the river restoration project will be funded through secure local public and private contributions as well Trout Unlimited. The tailings remediation will be funded through a settlement Consent Decree established by the State of Colorado.

Related Studies

Please provide a list of any related studies, including if the water project is complementary to or assists in the implementation of other CWCB programs.

San Miguel Pilot Project: Recreational and Environmental Needs Assessment and San Miguel River Stream Management Planning

Previous CWCB Grants, Loans or Other Funding

List all previous or current CWCB grants (including WSRF) awarded to both the Applicant and Grantee. Include: 1) Applicant name; 2) Water activity name; 3) Approving RT(s); 4) CWCB board meeting date; 5) Contract number or purchase order; 6) Percentage of other CWCB funding for your overall project.



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2016 WSRF Funds = \$444,021

Name: Valley Floor Preservation Partners

Project: Valley Floor River Restoration Reach One

RT: Southwest

Date: March 2016

CWCB funding was 25% of the total project

Contact: Chris Sturm

2019 WSRF Funds = \$25,000 approved SWBRT/\$275,000 requested Statewide WSRF

Name: Valley Floor Preservation Partners

Project: Valley Floor Restoration Phase Two

RT: Southwest

Date: March 2019

WSRF funding will be 8% of total project. CWP & WSRF funding will be 15% of total project.

Taxpayer Bill of Rights

The Taxpayer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect your application.

No TABOR issues



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Submittal Checklist	
X	I acknowledge the Grantee will be able to contract with CWCB using the Standard Contract .
Exhibit A	
X	Statement of Work ⁽¹⁾
X	Budget & Schedule ⁽¹⁾
X	Engineer's statement of probable cost (projects over \$100,000)
X	Letters of Matching and/or Pending 3 rd Party Commitments ⁽¹⁾
Exhibit C	
X	Map (if applicable) ⁽¹⁾
	Photos/Drawings/Reports
X	Letters of Support (Optional)
	Certificate of Insurance (General, Auto, & Workers' Comp.) ⁽²⁾
	Certificate of Good Standing with Colorado Secretary of State ⁽²⁾
	W-9 ⁽²⁾
	Independent Contractor Form ⁽²⁾ (If applicant is individual, not company/organization)
Engagement & Innovation Grant Applicants ONLY	
	Engagement & Innovation Supplemental Application ⁽¹⁾

(1) Required with application.

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



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Colorado Water Conservation Board
Water Plan Grant - Exhibit A

Statement Of Work	
Date:	January 16, 2019
Name of Grantee:	
Name of Water Project:	Telluride River Restoration and Tailings Remediation Phase Two
Funding Source:	Colorado Water Plan Environmental & Recreation Projects
Water Project Overview:	
<p>The San Miguel River within the project area is heavily impacted by about 23 acres of deposited mine tailings and about 900 feet of channelization. Both these factors contribute to the degradation of water quality and lead to poor conditions for aquatic life. The mine tailings contain heavy metals, which pose a threat to human health and the environment. A section of the river was channelized in the early 1900s, which resulted in negative impacts to the surrounding riparian habitat. The goals of the project are to remove and remediate the mine tailings and realign 3,300 feet of river. The project will restore a naturally functioning river system by removing toxic mine tailings and rerouting the river away from the tailings. The project will abandon and revegetate a 900-foot channelized section of river and create a new 1,300-foot meandering channel with riffles, which will reconnect the river to its floodplain, establish critical habitat for cold-water fish and restore additional riparian habitat.</p>	
Project Objectives:	
<ol style="list-style-type: none"> 1. Reduce the threat to public health and the environment by consolidating and capping in place heavy-metal-laden mine tailings 2. Realign the river away from tailings and through clean, native soils 3. Eliminate artificial channelization and re-establish natural channel dimensions, patterns and floodplains 4. Re-establish instream riffle-pool aquatic habitat, connection with the riparian floodplain and restore ecological functions 5. Maintain existing mature native vegetation to the greatest extent possible 	



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Tasks	
Task 1 - Tailings remediation	
Description of Task:	
<p>Within the project area is a roughly 23-acre historic mine tailings deposit, referred to as Society Turn Tailings Pile Number 1 (ST-1), on the north and south sides of the river. Most of the tailings originated from the Idarado Mine upstream on the east end of Telluride. Sediment samples indicate the tailings are high in lead, cadmium, copper and zinc, and are therefore a threat to human health and the environment. Remediation for these tailings will include excavating 23,000 cubic yards of tailings in close contact with the river, hauling them to a consolidation area, constructing a cap of one foot of clean soil (26,000 cubic yards of clean soil required) over all tailings and revegetating 16 acres of the tailings cap with native vegetation.</p>	
Method/Procedure:	
<p>The tailings will be excavated to an average depth of five feet below ground surface and transported to a tailing consolidation area, which will be contoured into a naturalized landform. A cap of 26,000 cubic yards of natural soils will be placed over the tailings to a depth of one foot. The area the tailings were removed from will be backfilled with 3,900 cubic yards of clean soil. Once the tailings cap is in place, it will be revegetated with native plants. Because of the toxicity of the tailings, the project will include special precautions for onsite personnel. The project will also include collecting and testing of soil samples to confirm the contamination has been removed.</p>	
Deliverable:	
<p>Improved water quality, aquatic habitat and native vegetation</p>	



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Tasks	
Task 2 — River Restoration - Reach 6	
Description of Task:	
<p>Task 2 will realign the river to the south and away from tailings consolidation area and through clean, native soils. The active stream and flood plain will be kept farther away from any tailings, minimizing the leaching and transport of tailings into the river. The project will excavate 16,000 cubic yards of native materials to create the new 3,300-foot length of river. Twelve riffle/pool features, which will be designed to maintain a minimum flow depth during low-flow periods, will be constructed in the new channel to establish critical habitat for cold-water fish.</p>	
Method/Procedure:	
<p>Salvaged material will be excavated for the new channel and transported to the abandoned channel backfill area and new channel. The new channel will be graded and gravel/cobbles placed to form riffles. Five hundred cubic yards of Type M riprap will be placed across the abandoned channel to prevent the river from re-establishing in the abandoned channel. The abandoned channel will be revegetated using a custom, native seed mix, hydrologically applied wood fiber mulch and erosion-control blanket.</p>	
Deliverable:	
<p>Improved water quality, aquatic habitat, native vegetation and recreational opportunities including water activities and increased trail opportunities.</p>	



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Tasks	
Task 3 — River Restoration - Reach 5	
Description of Task:	<p>Reach 5 has been extensively affected by past human actions. In the early 1900s, this section of river was removed from its natural alignment and channelized along a railroad grade to the north. This has resulted in degradation to the natural form and function of the river system, as well as altered the ecological characteristics of the valley. The channelization has eliminated the ability of the river to access its floodplain, negatively altering the surrounding environment, including wetlands. Task 3 will establish a more natural channel and reconnect the river to its floodplain. The existing 900-foot channelized section of river will be abandoned and a new 1,300-foot meandering channel with five riffle/pool features will be created.</p>
Method/Procedure:	<p>About 950 cubic yards of gravel and cobbles will be salvaged and stockpiled to be reused to form the substrate of the new channel. About 6,400 cubic yards of native materials will be excavated to create the new channel. Five-thousand two hundred cubic yards of spoils will be backfilled into the abandoned channel, contoured into a natural landform and covered with salvaged topsoil material. The new channel will be graded to form riffles. About 200 cubic yards of Type M riprap will be placed across the abandoned channel to prevent the river from re-establishing the old channel. The old channel area will be seeded with a custom native seed mix and stabilized with hydrologically applied wood fiber mulch.</p>
Deliverable:	<p>Improved water quality, aquatic habitat, native vegetation and recreational opportunities including water activities and increased trail opportunities.</p>



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Tasks	
Task 4: Construction Operations and Project Management	
Description of Task:	
<p>The project will be completed through a design-build contract between the Town of Telluride with Ecological Resources Consultants Inc. and Tezak Heavy Equipment.</p>	
Method/Procedure:	
<p>This task will include construction water control and best management practices in accordance with federal, state and local jurisdictions, mobilization/demobilization, expenses associated with equipment and personnel, project management and three years of annual monitoring reporting. This task has assumed that Tasks 1 (Tailings Remediation), 2 (Reach 6 Restoration) and 3 (Reach 5) will be completed simultaneously as a single and complete project.</p>	
Deliverable:	
<p>A successful project</p>	

Tasks	
Task 5 - Miscellaneous Project Expenses	
Description of Task:	



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Tasks	
	<p>This task will include a 1% Project Bond to the Town, Final Design-Build Plans, US Army Corps of Engineers Clean Water Act Section 404 permit (assumed Nationwide Permit 27 only) as well as Town floodplain and wetland authorizations. A 10% project contingency has been included in this task to be utilized at the Town's discretion. This task has assumed that Tasks 1 (Tailings Remediation), 2 (Reach 6 Restoration) and 3 (Reach 5 Restoration) will be completed simultaneously as a single and complete project.</p>
Method/Procedure:	<p>See above</p>
Deliverable:	<p>A successfully managed project and budget. The Town of Telluride and Ecological Resource Consultants will provide a 6-month report, which will be a final project report if the project schedule is met. In addition, we will provide annual monitoring reports which we hope will inform future river restoration and tailings remediation project across the State.</p>

Reporting Requirements
<p>Progress Reports: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of issuance of a purchase order, or the execution of a contract. The progress report shall describe the status of the tasks identified in the statement of work, including a description of any major issues that have occurred and any corrective action taken to address these issues.</p>



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Reporting Requirements

Final Report: At completion of the project, the applicant shall provide the CWCB a Final Report on the applicant's letterhead that:

- Summarizes the project and how the project was completed.
- Describes any obstacles encountered, and how these obstacles were overcome.
- Confirms that all matching commitments have been fulfilled.
- Includes photographs, summaries of meetings and engineering reports/designs.

The CWCB will pay out the last 10% of the budget when the Final Report is completed to the satisfaction of CWCB staff. Once the Final Report has been accepted, and final payment has been issued, the purchase order or grant will be closed without any further payment.

Payment

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

Costs incurred prior to the effective date of this contract are not reimbursable. The last 10% of the entire grant will be paid out when the final deliverable has been received. All products, data and information developed as a result of this contract must be provided to CWCB in hard copy and electronic format as part of the project documentation.

Performance Measures

Performance measures for this contract shall include the following:

(a) Performance standards and evaluation: Grantee will produce detailed deliverables for each task as specified. Grantee shall maintain receipts for all project expenses and documentation of the minimum in-kind contributions (if applicable) per the budget in Exhibit B. Per Water Plan Grant Guidelines, the CWCB will pay out the last 10% of the budget when the Final Report is completed to the satisfaction of CWCB staff. Once the Final Report has been accepted, and final payment has been issued, the purchase order or grant will be closed without any further payment.

(b) Accountability: Per Water Plan Grant Guidelines full documentation of project progress must be submitted with each invoice for reimbursement. Grantee must confirm that all grant conditions have been complied with on each invoice. In addition, per Water Plan Grant Guidelines, Progress Reports must be submitted at least once every 6 months. A Final Report must be submitted and approved before final project payment.

(c) Monitoring Requirements: Grantee is responsible for ongoing monitoring of project progress per Exhibit A. Progress shall be detailed in each invoice and in each Progress Report, as detailed above. Additional inspections or field consultations will be arranged as may be necessary.

(d) Noncompliance Resolution: Payment will be withheld if grantee is not current on all grant conditions. Flagrant disregard for grant conditions will result in a stop work order and cancellation of the Grant Agreement.



Colorado Water Conservation Board
Water Plan Grant - Detailed Budget Estimate
Fair and Reasonable Estimate

Prepared Date:
 Name of Applicant:
 Name of Water Project:

EXAMPLE A: Study or Project Coordination

Task 1 - [TASK NAME]

Sub-task	Item	Hourly Rate	# Hours	Sub-total	Item			Total	CWCB Funds	Matching Funds
					Item Cost	Quantity	Sub-total			
Focus Groups										
	Participant Stipend			\$ -	\$ 50.00	20.00	\$ 1,000.00	\$ 1,000.00	\$ 250.00	\$ 750.00
	Catering			\$ -	\$ 15.00	20.00	\$ 300.00	\$ 300.00	\$ 75.00	\$ 225.00
	Feedback Survey			\$ -	\$ 0.50	20.00	\$ 10.00	\$ 10.00	\$ 2.50	\$ 7.50
	Staff Time	\$ 40.00	10	\$ 400.00				\$ 400.00	\$ 100.00	\$ 300.00
Develop Exhibit										
	Exhibit Designer	\$ 50.00	100	\$ 5,000.00			\$ -	\$ 5,000.00		
	Staff Time Project Manager	\$ 50.00	30	\$ 1,500.00			\$ -	\$ 1,500.00		
	Staff Time Administrative	\$ 35.00	20	\$ 700.00			\$ -	\$ 700.00		
	Film Production (filming, editing, production)			\$ -	\$ 5,000.00	1.00	\$ 5,000.00	\$ 5,000.00		
				\$ -			\$ -	\$ -		
				\$ -			\$ -	\$ -		
				\$ -			\$ -	\$ -		
TOTAL								\$ 13,910.00		
Other Direct Costs (see below)								\$ 2,469.00		
OVERALL TOTAL								\$ 16,379.00		

Other Direct Costs

Item:	Copies & Printing (Black & White)	Copies & Printing (Color)	Materials and Final Report Production Lump Sum	Lodging and Meals Per Diem	Travel Expenses (Airfare and Car Rental) Lump Sum	Mileage Miles	Total
Units:	No.	No.					
Unit Cost:	\$0.10	\$0.50		\$ 100.00		\$0.535	
Project Initiation	150	100		2		400	\$479
Report, Conclusions and Recommendations	150	150	\$ 1,900	0		0	\$1,990
Total Units:	300	250	1,900	2	0	400	
Total Cost:	\$30	\$125	\$1,900	\$200	\$0	\$214	\$2,469



COLORADO

Colorado Water Conservation Board

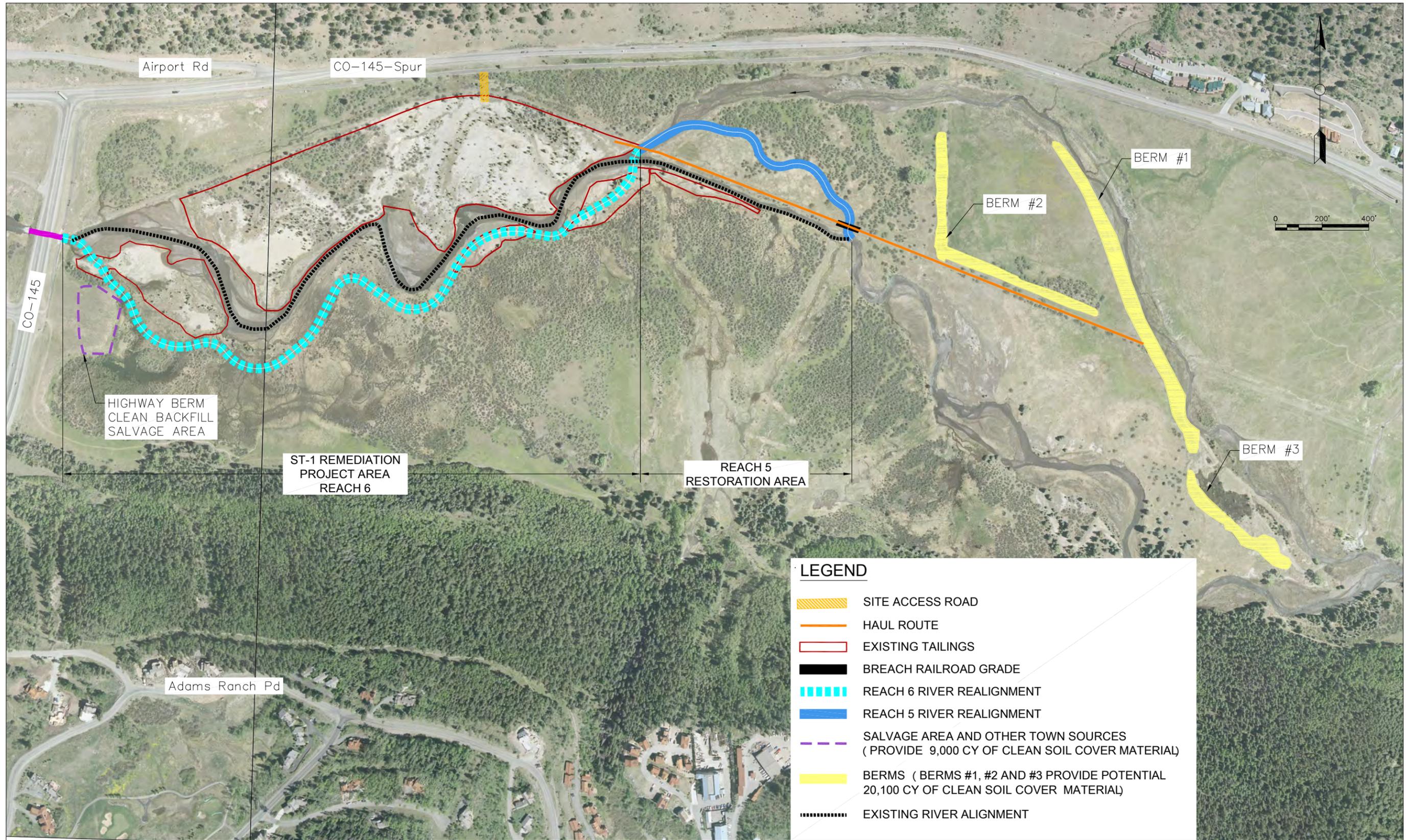
Department of Natural Resources

Colorado Water Conservation Board
Water Plan Grant - Detailed Budget Estimate
Fair and Reasonable Estimate

Prepared Date:
 Name of Applicant:
 Name of Water Project:

EXAMPLE B: Engineering

Sub-task	Water Consultants					Subtotal	Subcontracts			Project Total	CWCB Funds	Matching Funds
	Senior Principal Engineer	Senior Water Resources Engineer/Consultant	Water Resources Engineer	Geologist/Water Resources Analyst	Estimated Hours		Geotechnical Lump sum	Environmental and Cultural Resources Lump Sum	(Other)			
Project Initiation / Stakeholder identification	12	32		16	\$ 9,000				\$ -	\$9,000		
Water Rights Evaluation	24	24	80	30	\$ 21,800			\$ 12,000	\$ 12,000	\$33,800		
Geotechnical	24			36	\$ 8,160	\$ 27,000			\$ 27,000	\$35,160		
Permitting		32		40	\$ 9,120				\$ -	\$9,120		
Survey	4	24		8	\$ 5,400				\$ -	\$5,400		
Design of XXX	160	60	100		\$ 12,640				\$ -	\$12,640		
Preparation of construction documents (bid docs, specs)	40	10	30						\$ -			
Project Management	20	30		24	\$ 11,000				\$ -	\$11,000		
Report, Conclusions, & Recommendations	40	54	16	40	\$ 22,320			\$ 3,000	\$ 8,500	\$30,820		
TOTAL										\$146,940		



LEGEND	
	SITE ACCESS ROAD
	HAUL ROUTE
	EXISTING TAILINGS
	BREACH RAILROAD GRADE
	REACH 6 RIVER REALIGNMENT
	REACH 5 RIVER REALIGNMENT
	SALVAGE AREA AND OTHER TOWN SOURCES (PROVIDE 9,000 CY OF CLEAN SOIL COVER MATERIAL)
	BERMS (BERMS #1, #2 AND #3 PROVIDE POTENTIAL 20,100 CY OF CLEAN SOIL COVER MATERIAL)
	EXISTING RIVER ALIGNMENT

REV	DATE	DESCRIPTION
A	01/02/19	



PREPARED BY
ECOLOGICAL RESOURCES CONSULTANTS, INC
 35715 US HIGHWAY 40, SUITE D204
 EVERGREEN, CO 80439

CLIENT
TOWN OF TELLURIDE

PROJECT
ST-1 REMEDIATION - REACH 5 AND 6

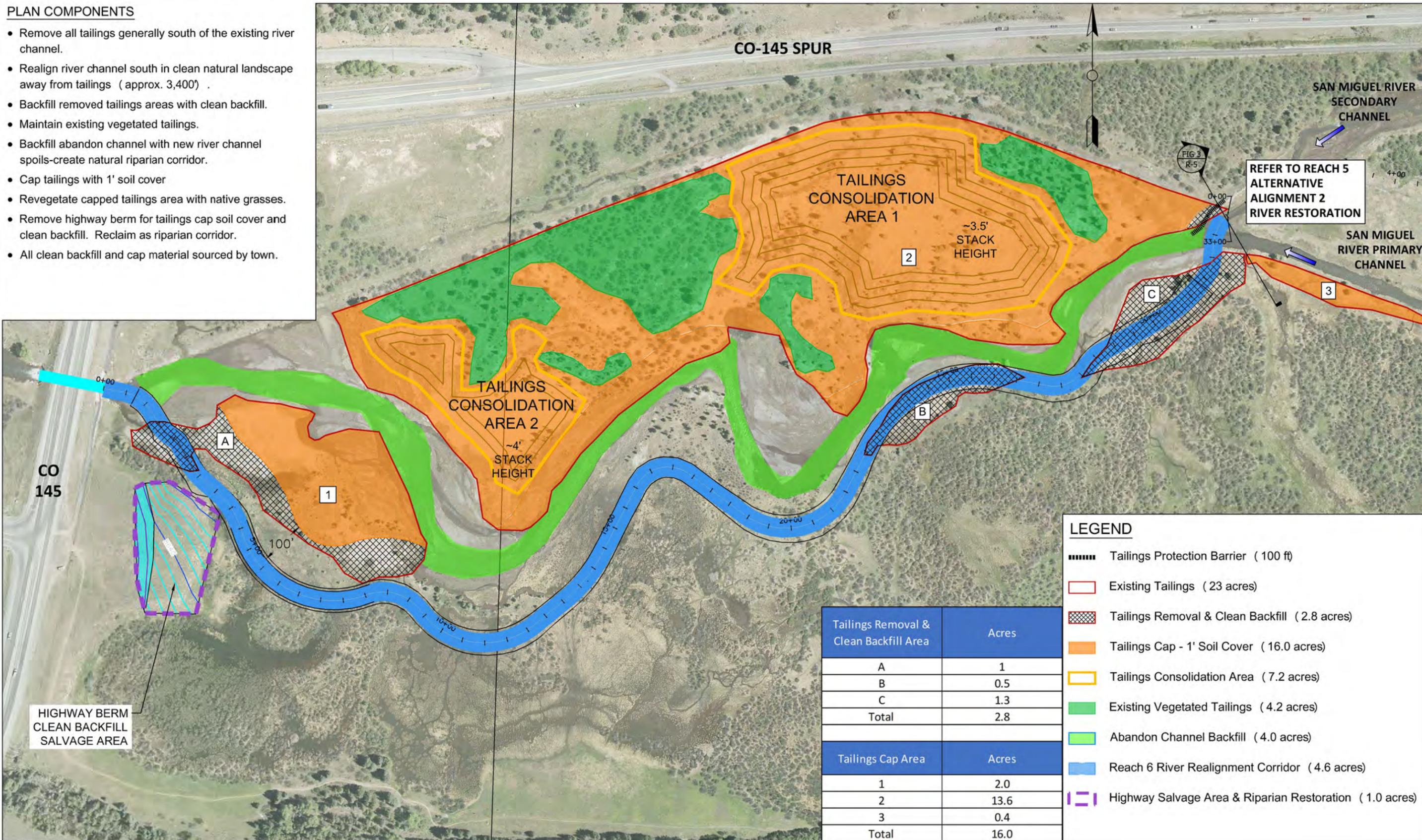
TITLE
OVERALL PLANVIEW

SHEET
01

G:\Dropbox (ERC Colorado)\ERC 01 PROJECTS\300 Telluride\300-1802 ST1 Remediation\02 ACAD\DWGS\02 - PLANVIEW\1.dwg, 12/28/2018 7:45:23 AM

PLAN COMPONENTS

- Remove all tailings generally south of the existing river channel.
- Realign river channel south in clean natural landscape away from tailings (approx. 3,400')
- Backfill removed tailings areas with clean backfill.
- Maintain existing vegetated tailings.
- Backfill abandon channel with new river channel spoils-create natural riparian corridor.
- Cap tailings with 1' soil cover
- Revegetate capped tailings area with native grasses.
- Remove highway berm for tailings cap soil cover and clean backfill. Reclaim as riparian corridor.
- All clean backfill and cap material sourced by town.



Tailings Removal & Clean Backfill Area	Acres
A	1
B	0.5
C	1.3
Total	2.8
Tailings Cap Area	
Acres	
1	2.0
2	13.6
3	0.4
Total	16.0

LEGEND

- ▬ Tailings Protection Barrier (100 ft)
- ▭ Existing Tailings (23 acres)
- ▨ Tailings Removal & Clean Backfill (2.8 acres)
- ▭ Tailings Cap - 1' Soil Cover (16.0 acres)
- ▭ Tailings Consolidation Area (7.2 acres)
- ▭ Existing Vegetated Tailings (4.2 acres)
- ▭ Abandon Channel Backfill (4.0 acres)
- ▭ Reach 6 River Realignment Corridor (4.6 acres)
- ▭ Highway Salvage Area & Riparian Restoration (1.0 acres)

REV	DATE	DESCRIPTION
A	01/02/19	



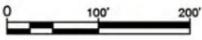
PREPARED BY
ECOLOGICAL RESOURCES CONSULTANTS, INC
 35715 US HIGHWAY 40, SUITE D204
 EVERGREEN, CO 80439

CLIENT
TOWN OF TELLURIDE

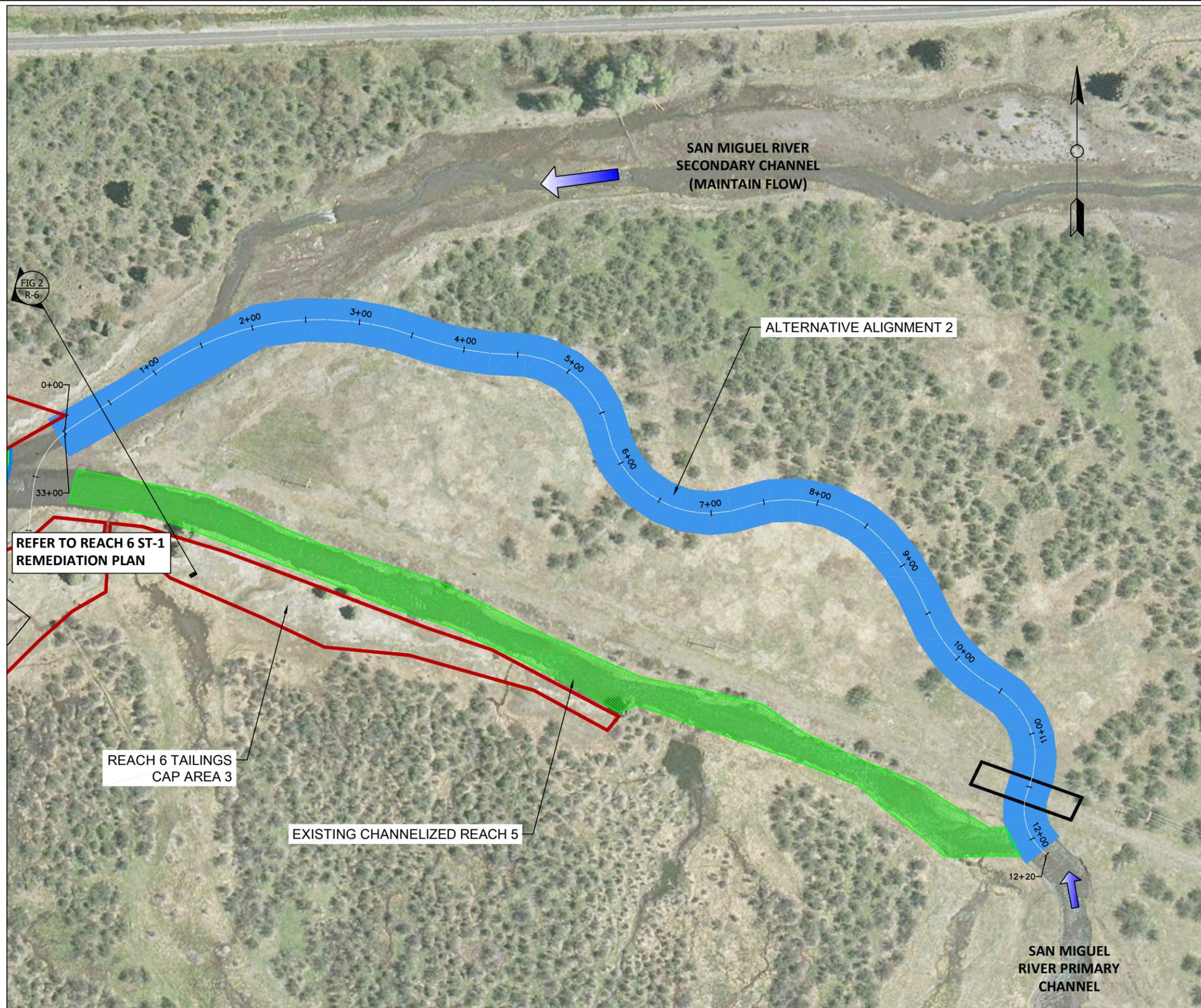
PROJECT
ST-1 REMEDIATION - REACH 5 AND 6

TITLE
REACH 6

SHEET
02

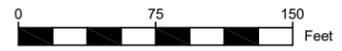


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LEGEND

- Existing Tailings
- Breach Railroad Grade
- Abandoned Channel Backfill
- Alternative 2 - River Improvement



REV	DATE	DESCRIPTION
A	01/02/19	



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ECOLOGICAL RESOURCES CONSULTANTS, INC
 35715 US HIGHWAY 40, SUITE D204
 EVERGREEN, CO 80439

CLIENT
TOWN OF TELLURIDE

PROJECT
ST-1 REMEDIATION - REACH 5 AND 6

TITLE
REACH 5

SHEET
03

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SAN MIGUEL
CONSERVATION



FOUNDATION

P.O. Box 2466

121 N. Pine St.

Telluride, CO 81435

tel: 970.728.1539

fax: 970.728.9080

Mike Preston, SWCD Chairperson
841 East Second Avenue
Durango, CO 81302

RE: Telluride Valley Floor Phase II River
Restoration Project WSRA Grant Application
DATE: December 28, 2018

Mr. Preston,

I am writing to express the San Miguel Conservation Foundation's support for the proposed Phase II River Restoration project and Superfund Tailings Remediation on the Telluride Valley Floor. I can confirm that the activities detailed in the grant application are consistent with the Purpose and Allowed Uses defined by the Deed of Conservation Easement (CE) we presently hold for the 560 acre property.

The environmental benefits of the proposed project are tied to a broad range of ecological systems on the property. Tailings cleanup associated with the Superfund settlement agreement with Idarado are essential for the long-term health of the property and the water quality of the San Miguel River. Direct improvement of the river channel will minimize the potential for erosion into the tailings deposits and will also improve the hydrologic regime of adjacent wetland communities.

Additionally, through the Town's required Valley Floor Management Plan, the site has long-term monitoring in place that will allow for the evaluation of the project area's baseline conditions and how they will change following the project's implementation. This presents a unique opportunity for continuing education both locally and for the greater Southwest Colorado water resource community.

I encourage you to support the Town of Telluride and the Valley Floor through a matching grant, and if I can answer any questions you have specific to the CE please feel free to contact me via telephone at 970/728-1539 or via email chris@smcf-landtrust.org.

Thank you for your consideration,

A handwritten signature in black ink, appearing to be 'Chris Hazen', enclosed within a circular scribble.

Chris Hazen
Executive Director, SMCF



BOARD OF COMMISSIONERS

KRIS HOLSTROM HILARY COOPER JOAN MAY

December 28, 2018

Southwest Basin Roundtable
Attn: Milke Preston, Chair
841 Second Avenue, West Building
P.O. Box 475
Durango, CO 81302

Dear Southwest Basin Roundtable Members,

The San Miguel County Board of Commissioners would like to express our support for Phase Two of the Valley Floor River Restoration project. After acquisition of the Valley Floor in 2007, the community was eager to initiate restoration of the San Miguel River flowing through the property. Phase One was successfully completed in 2016 and we support Phase Two as the next significant step. Restoration of this section of the San Miguel River is listed on the Southwest Basin Roundtable Non-consumptive Projects and Processes List, and therefore acknowledged by the SW Basin Roundtable as a critical project in the San Miguel sub-basin.

This project will have multiple benefits to the immediate upper watershed region as well as downstream watershed habitat and communities. Environmental benefits include improving and increasing wetland and riparian habitat, a naturally functioning flood plain, and improved in-stream habitat. Economic benefits include improved fishing, boating, trails and wildlife viewing opportunities and a critical risk management benefit for downstream residents of natural flood plain restoration. Educational benefits include additional opportunities for students of environmental sciences and wildlife biology within and outside the watershed. The Superfund tailings mitigation planned in this phase will improve water quality for the entire watershed, including downstream agricultural communities.

We fully support this project and encourage you to approve the funding request. Thank you for your consideration.

Sincerely,
SAN MIGUEL COUNTY, COLORADO
BOARD OF COUNTY COMMISSIONERS


Kris Holstrom, Chair



Southwest Basin Roundtable
Attn: Mike Preston, Chair
841 Second Avenue, West Building
P.O. Box 475
Durango, CO 81302

12/29/2018

Dear Southwest Basin Roundtable Members,

The San Miguel Watershed Coalition (SMWC) fully supports Phase II of the Valley Floor River Restoration project. SMWC, a 501c3 watershed group, has operated within the San Miguel Watershed for 20 years and is keen to lend its stamp of approval to a project that will improve an important section of the upper San Miguel River.

Completed in 2016, Phase I of the Valley Floor River Restoration project returned a channelized section of the upper San Miguel River to a natural, meandering course. The project was a great success and has improved both in-stream and riparian habitats. SMWC believes that it is important to continue this river restoration effort in order to achieve a biologically functioning lotic ecosystem throughout the entirety of the Valley Floor.

Phase II river and riparian restoration work on Reaches 4, 5, and 6 will improve the natural hydrology of the San Miguel River while tailings remediation work will have measurable impacts on the river's water quality. These benefits will not only improve the upper San Miguel, they will also have positive impacts far down stream in the watershed. The Valley Floor is an excellent location for community members and tourists to fish, boat, view wildlife, and experience environmental education opportunities. Phase II will ensure that these activities continue and that the Valley Floor remains a quality destination for locals and visitors.

SMWC is pleased to endorse a project that has both localized and immediate benefits to the upper San Miguel as well as long-lasting, positive impacts to the health of the entire river.

Sincerely,

Elizabeth Stuffings, Program Coordinator San Miguel Watershed Coalition



**SHEEP
MOUNTAIN
ALLIANCE**

PO Box 389, Telluride, CO 81435 • 970-728-3729 • www.sheepmountainalliance.org

December 30, 2018

Southwest Basin Roundtable
Attn: Mike Preston, Chair
841 Second Avenue, West Building
P.O. Box 475
Durango, CO 81302

Dear Southwest Basin Roundtable Members,

Sheep Mountain Alliance (SMA) would like to express our full support for Phase Two of the Valley Floor River Restoration and we ask for your support of the funding request.

SMA is a nonprofit representing both full and part-time residents, as well as visitors to the Telluride region. SMA initiated the effort to secure the Telluride Valley Floor as protected open space many years ago. We would like to see the natural valley floor riparian ecosystem on the property restored through both active management and over time by nature. Phase One of the river restoration was a huge success and we are eager to see Phase Two completed to further restore the natural floodplain and riparian habitat and improve water quality downstream through the long overdue tailings remediation along the river.

This project will provide environmental, economic and risk management benefits to the upper watershed region as well as downstream communities of the San Miguel River.

Thank you for your consideration of this letter.

Sincerely,

Lexi Tuddenham
Executive Director

December 30, 2018

Mayor Sean Murphy, Telluride Town Council
& Hilary Cooper, Valley Floor Preservation Partners Representative
Rebekah Hall
113 W. Columbia Ave.
Telluride, Co 81435

Via Email

Dear Mayor Murphy, Telluride Town Council Members and Valley Floor Preservation Partners,

Congratulations on the successful Phase 1 Valley Floor river restoration project of the Valley Floor. Trout Unlimited (TU) wants to communicate its clear support for the proposed Phase II of river restoration improvements on the Valley Floor that includes reaches 4, 5, and 6.

As a member of the former Valley Floor Preliminary River Restoration Committee, I am confident that the proposed Phase II river restoration effort will enhance the ecosystem. TU provided \$10,000 in seed capital to help fund this preliminary design of the project, and an additional \$10,000 in funding for Phase 1. TU can currently commit an additional \$10,000 for Phase II if Town Council endorses the project to move forward with satisfactory conditions, and once construction begins. There may be additional funding available at a later date.

Best Regards,

A handwritten signature in black ink, appearing to read "J. Christopher Chaffin". The signature is written in a cursive style and is positioned above the printed name.

J. Christopher Chaffin
Representative for Gunnison Gorge Angler Chapter of Trout Unlimited



THE SOUTHWESTERN WATER CONSERVATION DISTRICT

Developing and Conserving the Waters in the
SAN JUAN AND DOLORES RIVERS AND THEIR TRIBUTARIES
West Building – 841 East Second Avenue
DURANGO, COLORADO 81301
(970) 247-1302

January 9, 2019

Colorado Water Conservation Board
Board of Directors
1313 Sherman Street, Room 718
Denver, CO 80203

RE: Telluride Valley Floor Restoration Project, Phase II Funding Application

Dear CWCB Board of Directors:

On behalf of the Board of Directors of the Southwestern Water Conservation District (“District”), I would like to convey our support for Valley Floor Preservation Partners’ application to the Colorado Water Conservation Board’s Water Supply Reserve Fund and Colorado Water Plan Implementation Fund to leverage additional funding for Phase II of the Telluride Valley Floor Restoration Project.

Our District was formed to protect, conserve, use and develop the waters of the Dolores and San Juan river basins in southwestern Colorado. Following this mandate, the Board is supportive of this restoration effort on the San Miguel River, as it involves consolidating and capping away tailings from the 100-year flood plain of the river channel. Such efforts to improve water quality are consistent with the statutory charge of our District.

The District would also like to highlight for the CWCB the broad-based community effort pushing this three million dollar project forward. Partners such as the Town of Telluride, San Miguel County, Idarado Mining Company, and Trout Unlimited have come together to restore the river to a meandering path and improve riparian habitat.

We respectfully request that you give favorable consideration to the Valley Floor Preservation Partners’ proposal for Phase II of the restoration project. Thank you for your time and attention.

Warm regards,

Bruce Whitehead
Executive Director