

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 21, 2019
Agenda Item 24(o)**

Applicant & Grantee: Valley Floor Preservation Partners

Water Activity Name: Telluride Valley Floor River Restoration Phase Two

Water Activity Purpose: Environmental & Recreational Implementation

County: San Miguel

Drainage Basin: Southwest

Water Source: San Miguel

Amount Requested: \$25,000 Southwest Basin Account
\$250,000 Statewide Account

Matching Funds: Basin Account Match = \$25,000

- 10% of the statewide request (meets 10% min)

Applicant Match (cash & in-kind) = \$3,059,000

- 1223% of the statewide request (meets 10% min)

Total Match (Basin & Applicant) = \$3,084,000

- 1224% of the statewide request (meets 50% min)
- 93% of the total project cost of \$3,334,000

Staff Recommendation:
Staff recommends approval of up to \$25,000 from the Southwest Basin Account and \$250,000 from the Statewide Account to fund the project titled: Telluride Valley Floor River Restoration Phase Two.

Water Activity Summary: WSRF grant funds, if approved, will assist the Valley Floor Preservation Partners restore a naturally functioning river system by removing toxic mine tailings and rerouting 3,300 feet of 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.

The 566-acre Valley Floor property is located immediately west of the developed boundary of the Town of Telluride along the San Miguel River. The property, owned and managed by the Town of Telluride, is protected as public Open Space in perpetuity with a Conservation Easement. The River flows through the entire length of the property and is joined by surface and ground water flows from four headwater tributaries within the property. The River within the project area is heavily impacted by approximately 23 acres of deposited tailings and 900 feet of channelization. Currently in Reach 6, the river cuts directly through eroding tailings on both banks which contributes to water quality degradation and poor aquatic life conditions due to the presence of heavy metals. The intent of the Reach 5-6 River Restoration and Tailing Remediation is to consolidate, stabilize and cover existing tailings, remove River interaction with tailings, create a naturally functioning river system and mitigate past channelization impacts through hydrology, channel morphology and water quality improvements.

WSRF funds will be used for the River Restoration Tasks of this project, which will address improvements to environmental, recreational, flooding risk mitigation and education purposes.

Discussion: As described in the Southwest Roundtable (SWBRT) chair's recommendation letter, this project was supported and recommended for approval on January 9, 2019. Colorado Water Plan *Objective 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 *Objective H*: 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.

Issues/Additional Needs: No additional needs have been identified.

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Summary / Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-Kind</u>	<u>Total</u>
Town of Telluride/State of Colorado (Idarado Mining Co Consent Decree)	\$2,434,000	\$0	\$2,434,000
Valley Floor Preservation Partners	\$400,000	\$0	\$400,00
CWCB Water Plan Implementation Funds	\$215,000	\$0	\$215,000
Trout Unlimited	\$10,000	\$0	\$10,000
Subtotals	\$3,059,000	\$0	\$3,059,000
WSRF Statewide Account	\$250,000	n/a	\$250,000
WSRF Southwest Basin Account	\$25,000	n/a	\$25,000
Totals	\$3,334,000	\$0	\$3,334,000

CWCB Project Manager: Chris Sturm

SOUTHWEST BASINS ROUNDTABLE

Michael Preston, Chair

c/o Dolores Water Conservancy District

P.O. Box 1150

Cortez, Colorado 81321

970-565-7562

January 17, 2019

Megan Holcomb

Water Supply Management Section

Colorado Water Conservation Board

1580 Logan Street, Suite 600

Denver, Colorado 80203

SUBJECT: Telluride Valley Floor River Restoration, Phase II - \$25,000 Southwest Basin Fund, and \$250,000 from WSRF Statewide Fund

Dear Megan:

The Southwest Basin Roundtable has approved funding in the amount of \$25,000 from the Southwest Basin fund and \$250,000 from WSRF Statewide Fund for the Telluride Valley Floor River Restoration, Phase II. The application was considered in detail at the January 9, 2019 meeting of the Southwest Basin Roundtable. There was a quorum of Roundtable members present.

The Project addresses Southwest Basin IPP 14-SM, and BIP Measurable Goals and Outcomes A2 and A5: Balancing Needs and Reducing Conflicts, D1: Protect and Enhance Recreational Values, E1, E2: Meet Environmental Water Needs, and F1: Preserve Water Quality.

Phase 1 of the Valley Floor Restoration is considered innovative and successful by those who have seen it first-hand. Phase II builds on this success, in conjunction with mine tailings clean up work funded from other sources.

The completed Grant Application will be forwarded directly to you by the applicant. Please contact the applicant directly or me at 970-565-7562, mpreston@frontier.net, if you have questions or wish to discuss this application in more detail.

Sincerely,



Michael Preston

Southwest Basin Roundtable Chair



Last Update: July 31, 2018

Colorado Water Conservation Board

Water Supply Reserve Fund Grant Application

Instructions

All WSRF grant applications shall conform to the current [2016 WSRF Criteria and Guidelines](#).

To receive funding from the WSRF, a proposed water activity must be approved by a Roundtable(s) **AND** the Colorado Water Conservation Board (CWCB). The process for Roundtable consideration and recommendation is outlined in the 2016 WSRF Criteria and Guidelines. The CWCB meets bimonthly according to the schedule on page 2 of this application.

If you have questions, please contact the current CWCB staff Roundtable liaison:

Arkansas

Ben Wade
ben.wade@state.co.us
303-866-3441 x3238

Gunnison | North Platte | South Platte | Yampa/White

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

Colorado | Metro | Rio Grande | Southwest

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

WSRF Submittal Checklist (Required)

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

(1) Click "Grant Agreements". For reference only/do not fill out or submit/required for contracting

(2) Required with application if applicable.

(3) Additional documentation providing a Detailed/Itemized Budget maybe required for contracting. Applicants are encouraged to coordinate with the CWCB Project Manager to determine specifics.

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

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

Desired Timeline	
Desired CWCB Hearing Month:	March
Desired Notice to Proceed Date:	March/April

Water Activity Summary		
Name of Applicant	Valley Floor Preservation Partners	
Name of Water Activity	Telluride Valley Floor River Restoration Phase Two	
Approving Roundtable(s)	Basin Account Request(s) ⁽¹⁾	
Southwest	25,000	
Basin Account Request Subtotal	\$25,000	
Statewide Account Request ⁽¹⁾	\$250,000	
Total WSRF Funds Requested (Basin & Statewide)	\$275,000	
Total Project Costs	\$3,333,882	

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



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Grantee and Applicant Information	
Name of Grantee(s)	Valley Floor Presevation Partners
Mailing Address	PO Box 202, Telluride, CO 81435
FEIN	20-4889403
Grantee's Organization Contact ⁽¹⁾	Hilary Cooper
Position/Title	Program Manager
Email	hilary@mountainfreak.com
Phone	9707292321
Grant Management Contact ⁽²⁾	<u>Same</u>
Position/Title	
Email	
Phone	
Name of Applicant (if different than grantee)	
Mailing Address	
Position/Title	
Email	
Phone	

(1) Person with signatory authority

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

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



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

Type of Water Activity (check one)	
	Study
X	Implementation

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

Location of Water Activity	
Please provide the general county and coordinates of the proposed activity below in decimal degrees . The Applicant shall also provide, in Exhibit C, a site map if applicable.	
County/Countries	San Miguel County
Latitude	37.939237 degrees N
Longitude	-107.824902 degrees W

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Water Activity Overview
<p>Please provide a summary of the proposed water activity (200 words or less). Include a description of the activity and what the WSRF funding will be used for specifically (e.g. studies, permitting, construction). Provide a description of the water supply source to be utilized or the water body affected by the activity. Include details such as acres under irrigation, types of crops irrigated, number of residential and commercial taps, length of ditch improvements, length of pipe installed, area of habitat improvements. If this project addresses multiple purposes or spans multiple basins, please explain. The Applicant shall also provide, in Exhibit A, a detailed Statement of Work, Budget, and Schedule.</p>
<p>The 566-acre Valley Floor property is located immediately west of the developed boundary of the Town of Telluride along the San Miguel River (River). The property, owned and managed by the Town of Telluride (Town), is protected as public Open Space in perpetuity with a Conservation Easement. The River flows through the entire length of the property and is joined by surface and ground water flows from four headwater tributaries within the property. The River within the project area is heavily impacted by approximately 23 acres of deposited tailings and 900 feet of channelization. Currently in Reach 6, the river cuts directly through eroding tailings on both banks which contributes to water quality degradation and poor aquatic life conditions due to the presence of heavy metals. The intent of the Reach 5-6 River Restoration and Tailing Remediation is to consolidate, stabilize and cover existing tailings, remove River interaction with tailings, create a naturally functioning river system and mitigate past channelization impacts through hydrology, channel morphology and water quality improvements. WSRF funds will be used for the River Restoration Tasks of this project, which will address improvements to environmental, recreational, flooding risk mitigation and education purposes.</p>

Measurable Results		
To catalog measurable results achieved with WSRF funds please provide any of the following values.		
0	New Storage Created (acre-feet)	
0	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive	
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	Length of Pipe/Canal Built or Improved	
	Other	Explain:

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Water Activity Justification

Provide a description of how this water activity supports the goals of [Colorado's Water Plan](#), the most recent [Statewide Water Supply Initiative](#), and the respective [Roundtable Basin Implementation Plan and Education Action Plan](#) ⁽¹⁾. The Applicant is required to reference specific needs, goals, themes, or Identified Projects and Processes (IPPs), including citations (e.g. document, chapters, sections, or page numbers).

For applications that include a request for funds from the Statewide Account, the proposed water activity shall be evaluated based upon how well the proposal conforms to Colorado's Water Plan criteria for state support (CWP, Section 9.4, pp. 9-43 to 9-44;) (Also listed pp. 4-5 in [2016 WSRF Criteria and Guidelines](#)).

This Project supports the Goals of the Colorado Water Plan, SWSI and Southwest Basin Roundtable's BIP and Education Action Plan.

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.

2016 WSRF Criteria and Guidelines

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 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 by through a Consent Decree

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Water Activity Justification

established by the State of Colorado.

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 nonconsumptive water supply needs”.

This project will address multiple purposes including environmental, recreational and risk management.

It will also meet Colorado’s nonconsumptive 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.

This project will also continue to provide an important educational and stewardship opportunity for all Coloradoans.

BIP Page 13, Table 1

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.

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

Matching Requirements: Basin Account Requests

Basin (only) Account grant requests require a 25% match (cash and/or in-kind) from the Applicant or 3rd party and shall be accompanied by a **letter of commitment** as described in the 2016 WSRF Criteria and Guidelines (submitted on the contributing entity's letterhead). Attach additional sheet if necessary.

Contributing Entity	Amount and Form of Match (note cash or in-kind)



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Matching Requirements: Basin Account Requests	
Total Match	\$
If you requested a Waiver to the Basin Account matching requirements, indicate the percentage you wish waived.	

Matching Requirements: Statewide Account Requests	
Statewide Account grant requests require a 50% match as described in the 2016 WSRF Criteria and Guidelines. A minimum of 10% match shall be from Basin Account funds (cash only). A minimum of 10% match shall be provided by the applicant or 3rd party (cash, in-kind, or combination). The remaining 30% of the required match may be provided from any other source (Basin, applicant, or 3 rd party) and shall be accompanied by a letter of commitment . Attach additional sheet if necessary.	
Contributing Entity	Amount and Form of Match (note cash or in-kind):
Town of Telluride/State of Colorado (Idarado Mining Co Consent Decree)	2,434,000 cash
Valley Floor Preservation Partners	400,000 cash
CO Water Plan Implementation Funds	215,000 cash
Trout Unlimited	10,000 cash
Total Match	\$3,059,000
If you requested a Waiver to the Statewide Account matching, indicate % you wish waived. (Max 50% reduction of requirement).	

Related Studies
Please provide a list of any related studies, including if the water activity is complimentary to or assists in the implementation of other CWCB programs.

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Related Studies

San Miguel Pilot Project: Recreational and Environmental Needs Assessment

Previous CWCB Grants

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

Name: Valley Floor Preservation Partners
Project: Valley Floor River Restoration Reach One
RT: Southwest Basin Roundtable
Date: March 2016
Contact: Chris Strum

Tax Payer Bill of Rights

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

None



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Colorado Water Conservation Board	
Water Supply Reserve Fund	
<u>Exhibit A - Statement of Work</u>	
Date:	January 1, 2019
Water Activity Name:	Valley Floor River Restoration and Tailings Remediation – Phase Two
Grant Recipient:	Valley Floor Preservation Partners/Town of Telluride
Funding Source:	WSRA Basin and State Accounts
Water Activity Overview: (Please provide brief description of the proposed water activity (no more than 200 words). Include a description of the overall water activity and specifically what the WSRF funding will be used for.)	
<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>	
Objectives: (List the objectives of the project)	
<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 tailings2. Realign the river away from tailings and through clean, native soils3. Eliminate artificial channelization and re-establish natural channel dimensions, patterns and floodplains4. Re-establish instream riffle-pool aquatic habitat, connection with the riparian floodplain and restore ecological functions5. Maintain existing mature native vegetation to the greatest extent possible	



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Tasks
Provide a detailed description of each task using the following format:
<u>Task 1 – Tailings Remediation</u>
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>
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
Improved water quality, aquatic habitat and native vegetation
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
There is a six-month construction timeline planned for the tasks. The applicant is prepared to provide the CWCB with a monthly progress report beginning with the anticipated start of construction in May 2019. The progress report shall describe the completion or partial completion of tasks identified in the statement of work, including any major issues and corrective action to address these issues.



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Tasks
Provide a detailed description of each task using the following format:
Task 2 – River Restoration — Reach 6
Description of Task: 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.
Method/Procedure: 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.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
Improved water quality, aquatic habitat and native vegetation.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
There is a six-month construction timeline planned for the tasks. The applicant is prepared to provide the CWCB with a monthly progress report beginning with the anticipated start of construction in May 2019. The progress report shall describe the completion or partial completion of tasks identified in the statement of work, including any major issues and corrective action to address these issues.

Repeat for Task 3, Task 4, Task 5, etc.



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Tasks
Provide a detailed description of each task using the following format:
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>
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
Improved aquatic and riparian habitat and native vegetation.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
At the completion of the project, the applicant will provide the CWCB with a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.



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Tasks
Provide a detailed description of each task using the following format:
<u>Task 4: Construction Operations and Project Management</u>
Description of Task: The project will be completed through a design-build contract between the Town of Telluride with Ecological Resources Consultants Inc. and Tezak Heavy Equipment.
Method/Procedure: 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.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
A successful project
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
At the completion of the project, the applicant will provide the CWCB with a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

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Tasks
Provide a detailed description of each task using the following format:
<u>Task 5: Miscellaneous Project Expenses</u>
Description of Task:
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.
Method/Procedure:
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
A successfully managed project and budget.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
At the completion of the project, the applicant will provide the CWCB with a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.



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Budget and Schedule

Exhibit B - Budget and Schedule: This Statement of Work shall be accompanied by a combined [Budget and Schedule](#) that reflects the Tasks identified in the Statement of Work and shall be submitted to CWCB in excel format. A separate excel formatted Budget is required for engineering costs to include rate and unit costs.

Reporting Requirements

Progress Reports: The grantee 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. The CWCB may withhold reimbursement until satisfactory progress reports have been submitted.

Final Report: At completion of the project, the grantee shall provide the CWCB a Final Report on the grantee'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.

Payments

Payment will be made based on actual expenditures, must include invoices for all work completed and must be on grantee's letterhead. 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.

The CWCB will pay the last 10% of the entire water activity 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 water activity and purchase order or contract will be closed without any further payment. Any entity that fails to complete a satisfactory Final Report and submit to CWCB within 90 days of the expiration of a purchase order or contract may be denied consideration for future funding of any type from CWCB.

Performance Requirements

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

(b) Accountability: Per the 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 the 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**Colorado Water
Conservation Board

Department of Natural Resources

Colorado Water Conservation Board**Water Supply Reserve Fund****EXHIBIT B - BUDGET AND SCHEDULE - Direct & Indirect (Administrative) Costs****Date: January 1, 2019****Water Activity Name: Valley Floor River Restoration Phase Two****Grantee Name: Valley Floor Preservation Partners**

Task No. ⁽¹⁾	Description	Start Date ⁽²⁾	End Date	Matching Funds (cash & in-kind) ⁽³⁾	WSRF Funds (Basin & Statewide combined) ⁽³⁾	Total
1	Tailings Remediation	June	September	1,362,000	0	1,362,000
2	River Corridor Restoration Reach 6	July	October	\$580,100	\$137,500	\$717,600
3	River Corridor Restoration Reach 5	July	August	\$134,000	\$137,500	\$271,500
4	Construction Operations and Project Mgmt	March	Nov	\$576,700	\$0	\$576,700
5	Miscellaneous Project Expenses	March	Nov	\$406,100	\$0	\$406,100
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
Total				\$3,058,900	\$275,000	\$3,333,900

(1) The single task that include costs for Grant Administration must provide a labor breakdown (see Indirect Costs tab below) where the total WSRF Grant contribution towards that task does not exceed 15% of the total WSRF Grant amount.

(2) Start Date for funding under \$100K - 45 Days from Board Approval; Start Date for funding over \$100K - 90 Days from Board Approval.

(3) Round values up to the nearest hundred dollars.

- Additional documentation providing a Detailed/Itemized Budget may be required for contracting. Applicants are encouraged to coordinate with the CWCB Project Manager to determine specifics.

- Reimbursement eligibility commences upon the grantee's receipt of a Notice to Proceed (NTP)

- NTP will not be accepted as a start date. Project activities may commence as soon as the grantee enters contract and receives formal signed State Agreement.

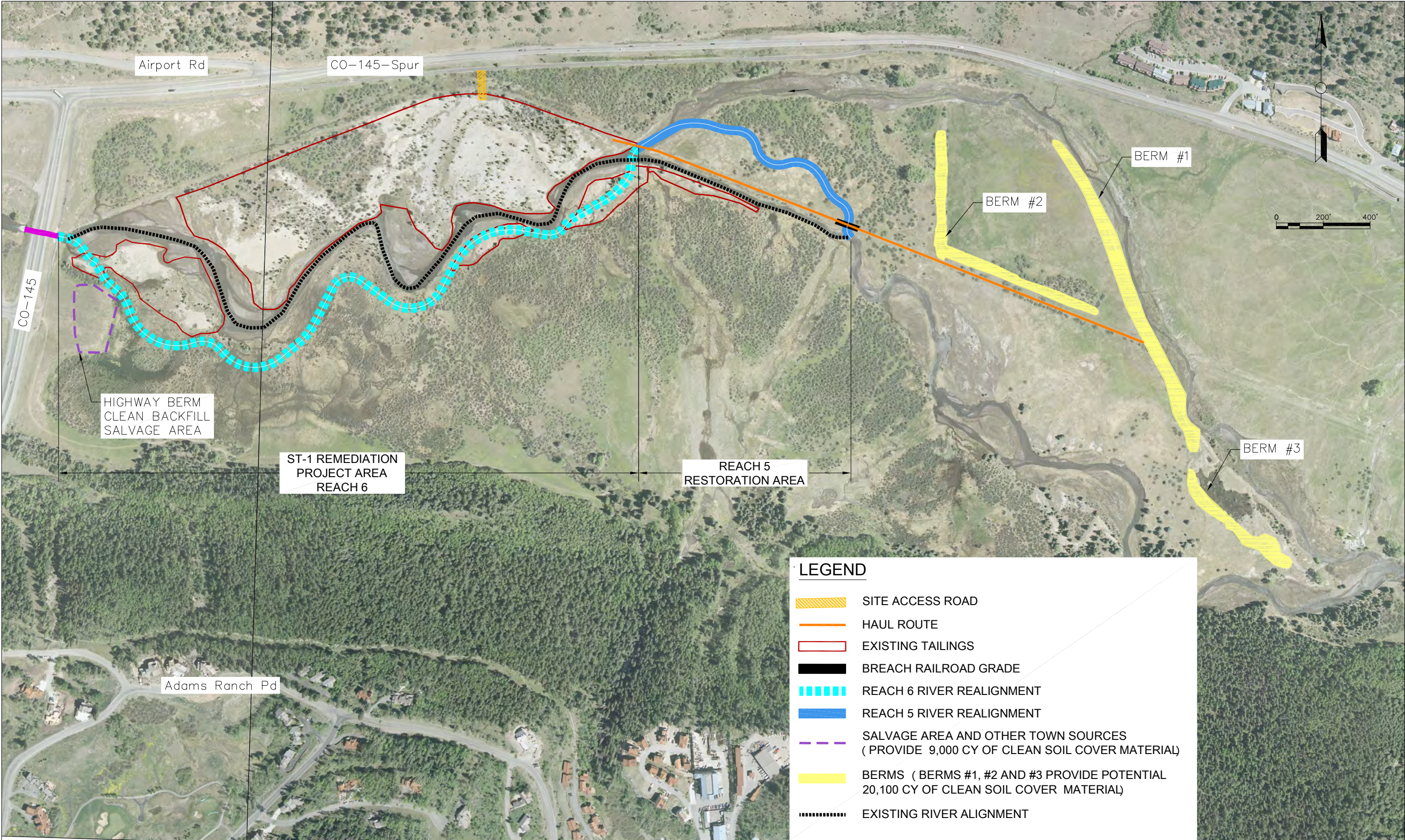
The CWCB will pay the last 10% of the entire water activity budget when the Final Report is completed to the satisfaction of the CWCB staff project manager. Once the Final Report has been accepted, the final payment has been issued, the water activity and purchase order (PO) or contract will be closed without any further payment. Any entity that fails to complete a satisfactory Final Report and submit to the CWCB with 90 days of the expiration of the PO or contract may be denied consideration for future funding of any type from the CWCB.

- Additionally, the applicant shall provide a progress report every 6 months, beginning from the date of contract execution

- Standard contracting procedures dictate that the Expiration Date of the contract shall be 5 years from the Effective Date.

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REV	DATE	DESCRIPTION
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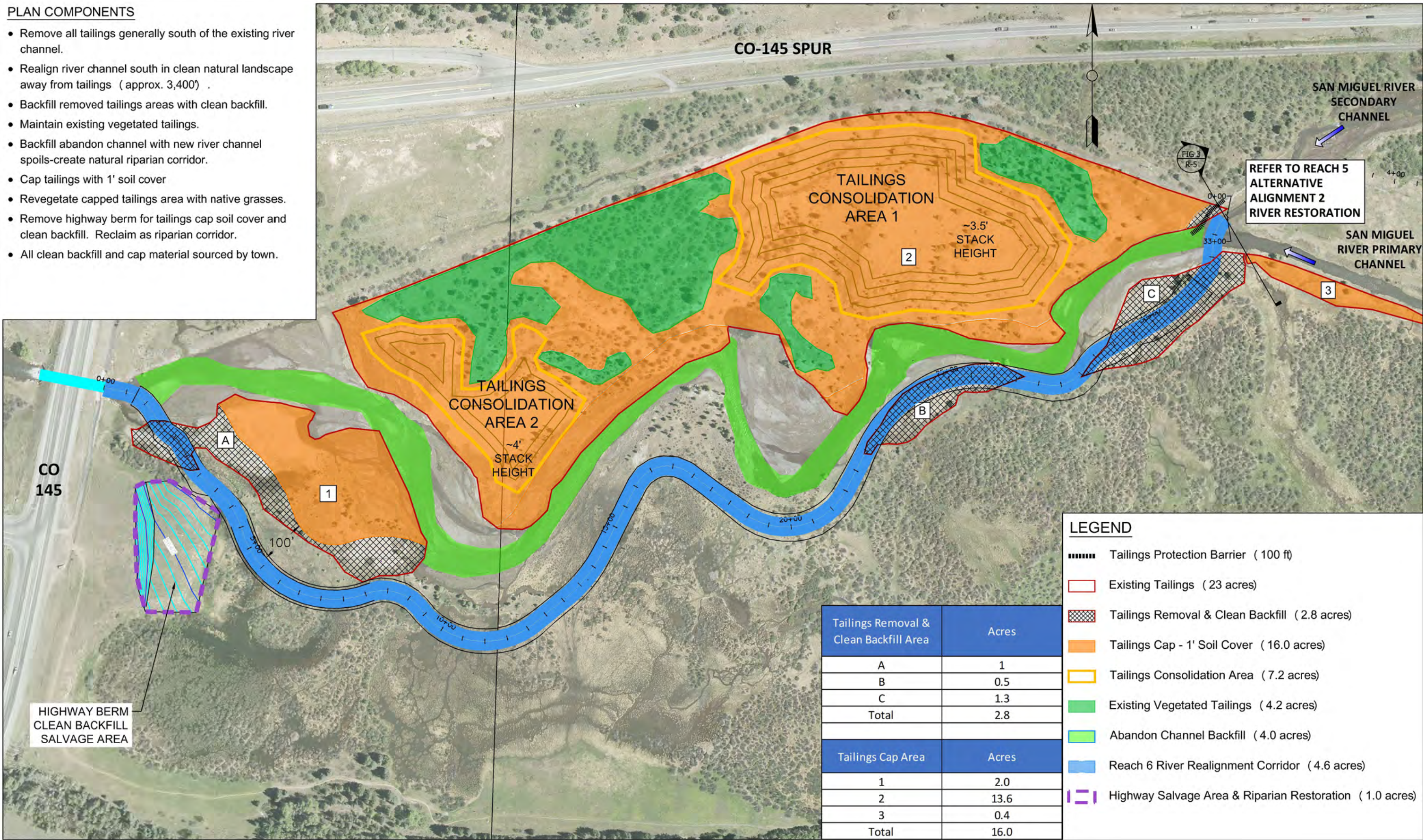
PROJECT
ST-1 REMEDIATION - REACH 5 AND 6

TITLE
OVERALL PLANVIEW

SHEET
01

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.



REV	DATE	DESCRIPTION
A	01/02/19	



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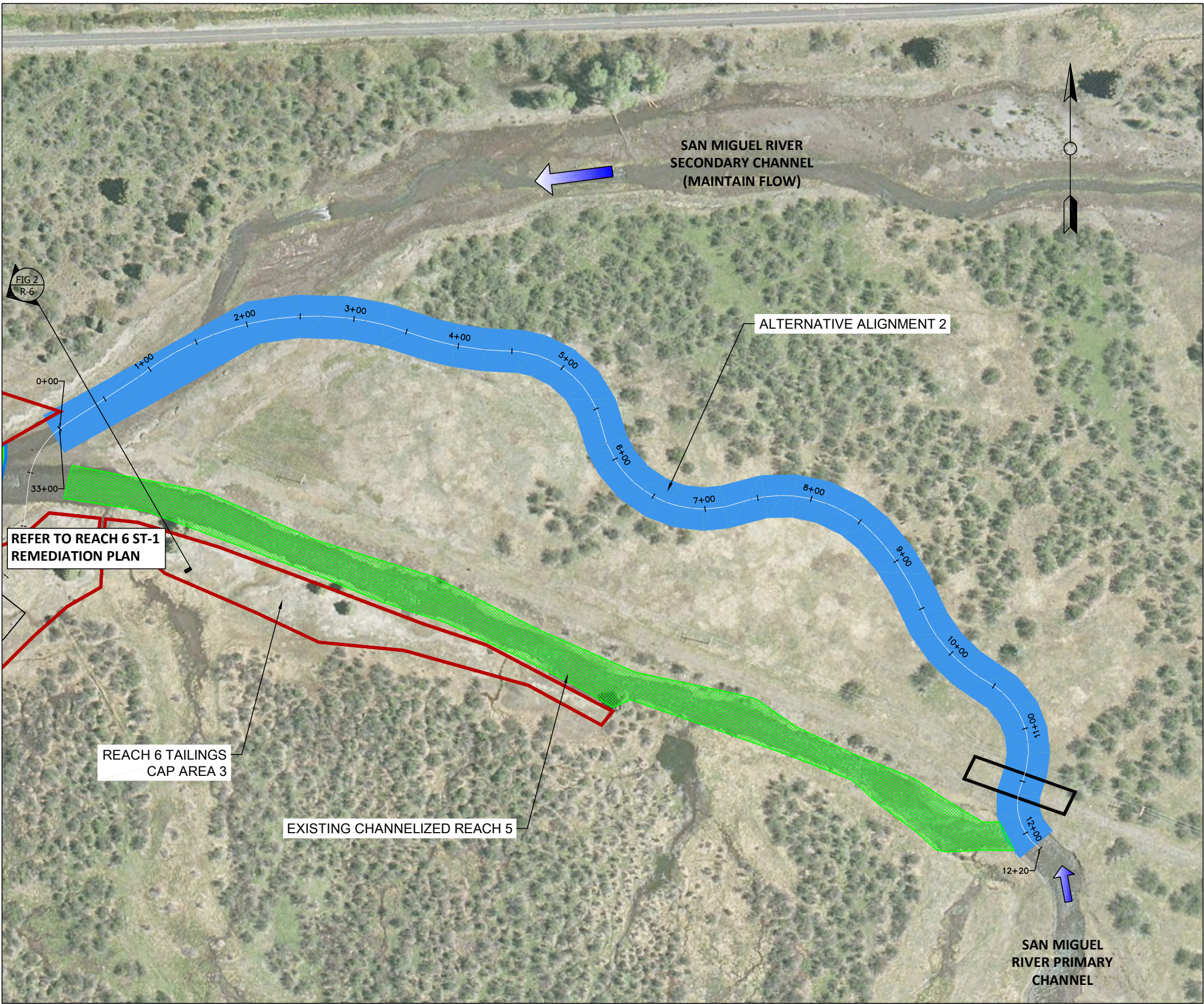
CLIENT
TOWN OF TELLURIDE

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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PROJECT
ST-1 REMEDIATION - REACH 5 AND 6

TITLE
REACH 5

SHEET
03