

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(u)**

Applicant & Grantee: Colorado Trout Unlimited

Water Activity Name: South Boulder Creek Stream Management Plan Phase 2 & Preliminary Infrastructure Design

Water Activity Purpose: M&I/Needs Assessment - Study

County: Montezuma

Drainage Basin: South Platte

Water Source: South Boulder Creek

Amount Requested: \$40,000 South Platte Basin Account
\$40,000 Metro Account
\$80,000 Total request

Matching Funds: Applicant & 3rd Parties Match = \$241,000

- 301% of the Basin Account requests (meets 10% min)

Staff Recommendation:
Staff recommends approval of up to \$40,000 from the South Platte Basin Account and \$40,000 from the Metro Account to help fund the project: South Boulder Creek Stream Management Plan Phase 2 & Preliminary Infrastructure Design.

Water Activity Summary: WSRF Funds, if approved will assist Colorado Trout Unlimited complete the Stream Management Plan (SMP) effort for South Boulder Creek in Boulder County, on the ~9 miles from the mouth of Eldorado Canyon to the Boulder Creek confluence. This stretch is notable as a working river delivering water to many users (17 ditch head gates with diversion structures), for extensive public recreational access (along ~5 miles of City of Boulder open space), and potential environmental value for native species (8 sensitive, threatened or endangered). In Phase I, they established a core stakeholder group/SMP steering committee, launched broader stakeholder communications, established a river health assessment methodology, assessed and prioritized in-stream physical infrastructure, and sampled representative channel cross-sections for flow requirements. With Phase II, they propose to close data gaps in support of the river health assessment, complete flow and physical condition assessments, complete the RHA analysis across flow and physical condition scenarios; document physical infrastructure modification concepts / engineering designs (15-20% for 2 highest priority structures, 5-10% for 3 lower priority structures), and execute the stakeholder communications plan to expand awareness and engagement. Funds will be used primarily for contractors: professional services in support of data management and analysis, survey and modeling, engineering design, outreach, associated information technology.

Discussion: This effort will assist the South Plate Basin and Metro Roundtables achieve several goals as called for in the South Platte Basin Implementation Plan, such as: Protect and enhance environmental and recreational attributes.

Issues/Additional Needs: The applicant shall identify all matching sources and provide all outstanding letter of matching commitment prior to entering into a grant contract with the state, otherwise there are no issues or additional needs.

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

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

Funding Sources/Match	Cash	In-kind	Total	Status
Trout Unlimited	\$15,000	\$20,000	\$35,000	Secured
City of Lafayette	\$0	\$2,000	\$2,000	Pending
Denver Water	\$10,000	\$3,000	\$13,000	Secured
City of Boulder	\$20,000	\$8,000	\$28,000	Pending
USFWS	\$40,000	\$0	\$40,000	Pending
Great Plains Fish Recovery Program	\$20,000	\$0	\$20,000	Pending
Unidentified Sources	\$103,000	\$0	\$116,000	Pending
Sub-total	\$208,000	\$33,000	\$241,000	
WSRF South Platte Basin Account	\$40,000	\$0	\$40,000	Secured
WSRF Metro Account	\$40,000	\$0	\$40,000	Secured
Total Project Costs	\$288,000	\$33,000	\$321,000	

CWCB Project Manager: Chris Sturm

Metro Roundtable

January 21, 2020

Craig Godbout
Colorado Water Conservation Board
1313 Sherman Street, Room 721
Denver, CO 80203

RE: Approval for the South Boulder Creek Stream Management Plan Phase II and Watershed Restoration Phase I WSRF Metro Basin Roundtable Application

Dear Craig,

On behalf of the Metro Basin Roundtable, I am pleased to convey our support and approval for a Colorado Water Conservation Board (CWCB) Water Supply Reserve Fund (WSRF) grant application submitted by Trout Unlimited for Stream Management Planning (Phase II) and Watershed Restoration (Phase I) on South Boulder Creek. Trout Unlimited submitted the application for the project to the Metro Roundtable in November 2019 and presented the project to the Roundtable on January 9, 2020. At the January 9 meeting the Roundtable voted to approve the request for up to \$40,000 from the WSRF Metro Basin Account, contingent on the project also being approved for its Stream Management Plan and Watershed Restoration grant requests pending before the CWCB.

Trout Unlimited has been a valued partner in conservation and water issues over the years, working in collaboration with diverse stakeholders, and is well-suited to the role of facilitating this SMP and Watershed Restoration efforts. The proposed next phase efforts will transition from Phase I data collection, planning and methodology selection, to field assessment, preliminary structure modification engineering designs, and ready-to-implement project recommendations. This work should provide a pragmatic framework to promote opportunities for multi-benefit partnerships among conservationists, recreationists, municipalities, agricultural, and other stakeholders. Completion of the SMP will create a plan forward for the health and resiliency of lower South Boulder Creek, a valued natural environment, recreational resource, and working river. While the preliminary engineering designs of structure modification should kick-start final design-build projects.

Importantly for our roundtable, the project addresses multiple objectives from our Basin Implementation Plan. It promotes environmental and recreational attributes on a significant stream reach for the basin. By supporting implementation of the Environmental Pool, part of the mitigation on the proposed expansion of Gross Reservoir, the SMP promotes successful completion of multi-purpose storage with one of our basin's identified projects and processes (IPP). Finally, the public outreach components of the SMP process advance our goals for community outreach and education on water matters within the South Platte watershed.

Through this letter, I convey our approval and ask CWCB to advance its consideration and approval for the South Boulder Creek SMP and Watershed Restoration funding through our basin account of the Water Supply Reserve Fund. We look forward to working with Trout Unlimited to create an improved plan for lower South Boulder Creek's health that also helps advance successful completion of a key IPP for our basin.

Sincerely,



Barbara Biggs
Chair, Metro Basin Roundtable

South Platte Basin Roundtable
Garrett Varra, Chair
January 27, 2020

Craig Godbout
Colorado Water Conservation Board
1313 Sherman Street, Room 721
Denver, CO 80203

Via email to craig.godbout@state.co.us

RE: Approval for the South Boulder Creek Stream Management Plan Phase II and Watershed Restoration Phase I WSRF South Platte Basin Roundtable Application

Dear Craig

On behalf of the South Platte Basin Roundtable, I am pleased to convey our support and approval for a Colorado Water Conservation Board (CWCB) Water Supply Reserve Fund (WSRF) grant application submitted by Trout Unlimited for Stream Management Planning (Phase II) and Watershed Restoration (Phase I) on South Boulder Creek. Trout Unlimited submitted the application for the project to the South Platte Basin Roundtable in November 2019 and presented the project to the Roundtable on January 14, 2020. At the January 14 meeting the Roundtable voted unanimously to approve the request for up to \$40,000 from the WSRF South Platte Basin Account, contingent on the project also being approved for its Stream Management Plan and Watershed Restoration grant requests pending before the CWCB. A quorum was present at the meeting.

Trout Unlimited has been a valued partner in conservation and water issues over the years, working in collaboration with diverse stakeholders, and is well-suited to the role of facilitating this SMP and WSR efforts. The proposed next phase efforts will transition from Phase I data collection, planning and methodology selection, to field assessment, preliminary structure modification engineering designs, and ready-to-implement project recommendations. This work should provide a pragmatic framework to promote opportunities for multi-benefit partnerships among conservationists, recreationists, municipalities, agricultural, and other stakeholders. Completion of the SMP will create a plan forward for the health and resiliency of lower South Boulder Creek, a valued natural environment, recreational resource, and working river. While the preliminary engineering designs of structure modification should kick-start final design-build projects.

Importantly for our Roundtable, the project addresses multiple objectives from our Basin Implementation Plan. It promotes environmental and recreational attributes on a significant stream reach for the basin. By supporting implementation of the Environmental Pool, part of the mitigation on the proposed expansion of Gross Reservoir, the SMP promotes successful completion of multi-purpose storage with one of our basin's identified projects and processes (IPP). Finally, the public outreach components of the SMP process advance our goals for community outreach and education on water matters within the South Platte watershed.

Through this letter, I convey our approval and ask CWCB to advance its consideration and approval for the South Boulder Creek SMP and WSR funding through our basin account of the Water Supply Reserve Fund. We look forward to working with Trout Unlimited to create an improved plan for lower South Boulder Creek's health that also helps advance successful completion of a key IPP for our basin.

Sincerely,



Garrett Varra



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)

X	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⁾	
	Detailed/Itemized Budget ⁽³⁾ (<i>Excel Spreadsheet – see Template</i>)
	Certificate of Insurance ⁽⁴⁾ (<i>General, Auto, & Workers' Comp.</i>)
X	Certificate of Good Standing ⁽⁴⁾
X	W-9 Form ⁽⁴⁾
NA	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.

Last Update: July 31, 2018

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

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

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

Desired Timeline	
Desired CWCB Hearing Month:	March 2019
Desired Notice to Proceed Date:	As quickly as possible following CWCB approval

Water Activity Summary		
Name of Applicant	Colorado Trout Unlimited (Grantee) and Boulder Flycasters (Program Manager)	
Name of Water Activity	South Boulder Creek Stream Management Plan Phase II and Infrastructure Design Preliminary Engineering Design of Physical Infrastructure Modifications (WSR Phase I)	
Approving Roundtable(s)		Basin Account Request(s) ⁽¹⁾
South Platte Basin Roundtable		\$40,000
Metro Basin Roundtable		\$40,000
Basin Account Request Subtotal		\$80,000
Statewide Account Request ⁽¹⁾		\$
Total WSRF Funds Requested (Basin & Statewide)		\$80,000



Last Update: July 31, 2018

Water Activity Summary	
Total Project Costs	\$321,000

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

Grantee and Applicant Information	
Name of Grantee(s)	Colorado Trout Unlimited
Mailing Address	1536 Wynkoop Street, Suite 320, Denver, CO 80202
FEIN	84-0628113
Grantee's Organization Contact ⁽¹⁾	David Nickum
Position/Title	Executive Director
Email	dnickum@tu.org
Phone	303-440-2937 x1
Grant Management Contact ⁽²⁾	<u>David Nickum</u>
Position/Title	Executive Director
Email	dnickum@tu.org
Phone	303-440-2937 x1
Name of Applicant (if different than grantee)	Boulder Flycasters c/o Stephen Brant
Mailing Address	PO Box 541, Boulder, CO 80306
Position/Title	Board Member and Sponsors' Project Representative
Email	slbrant62@gmail.com
Phone	303.885.4141

(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).



Last Update: July 31, 2018

Description of Grantee
Colorado Trout Unlimited ("CTU") is a statewide organization of more than 12,000 members in 24 local chapters dedicated to conserving, protecting and restoring Colorado's cold water fisheries and their watersheds. CTU is coordinating with its Boulder Flycasters Chapter, which spearheaded Phase I of the South Boulder Creek Stream Management Plan. CTU works through collaboration, education, grassroots action, and on-the-ground volunteerism. Current efforts include cooperation with front range and west slope water users on "Learning by Doing" in the Colorado headwaters; partnership with Colorado Parks and Wildlife on native trout restoration; and local youth education initiatives featuring watershed science and outdoor recreation.

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)	
X	Study
	Implementation

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

Last Update: July 31, 2018

Location of Water Activity		
Please provide the general county and coordinates of the proposed activity below in decimal degrees . The Applicant shall also provide, in Exhibit C, a site map if applicable.		
County/COUNTIES	Boulder County	
Latitude	39.932 (upstream end)	40.033 (downstream end)
Longitude	-105.281 (upstream end)	-105.217 (downstream end)

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>CTU will complete the Stream Management Plan (SMP) effort for South Boulder Creek in Boulder County, on the ~9 miles from the mouth of Eldorado Canyon to the Boulder Creek confluence. This stretch is notable as a working river delivering water to many users (17 ditch head gates with diversion structures), for extensive public recreational access (along ~5 miles of City of Boulder open space), and potential environmental value for native species (8 sensitive, threatened or endangered). In Phase I, we established a core stakeholder group/SMP steering committee, launched broader stakeholder communications, established a river health assessment methodology, assessed and prioritized in-stream physical infrastructure, and sampled representative channel cross-sections for flow requirements. With Phase II, we propose to close data gaps in support of the river health assessment, complete flow and physical condition assessments, complete the RHA analysis across flow and physical condition scenarios; document physical infrastructure modification concepts / engineering designs (15-20% for 2 highest priority structures, 5-10% for 3 lower priority structures), and execute the stakeholder communications plan to expand awareness and engagement.</p> <p>Funds will be used primarily for contractors: professional services in support of data management and analysis, survey and modeling, engineering design, outreach, associated information technology.</p>



Last Update: July 31, 2018

Measurable Results		
To catalog measurable results achieved with WSRF funds please provide any of the following values.		
	New Storage Created (acre-feet)	
	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Non-consumptive	
	Existing Storage Preserved or Enhanced (acre-feet)	
~9 miles (47,500 feet)	Length of Stream Restored or Protected (linear feet)	
	Efficiency Savings (indicate acre-feet/year OR dollars/year)	
	Area of Restored or Preserved Habitat (acres)	
	Length of Pipe/Canal Built or Improved	
5,000AF	Other	Explain: volume of water delivery facilitated to provide environmental benefits (water source- Boulder & Lafayette; storage through Gross Reservoir Expansion Environmental Pool)

Water Activity Justification
<p>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).</p> <p>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).</p>

Last Update: July 31, 2018

Water Activity Justification

The Colorado Water Plan sets a goal of establishing stream management plans for 80% of priority waterways in Colorado (SWP p. 10-7). South Boulder Creek's environmental and recreational attributes were called out in the South Platte Basin non-consumptive use analysis, and this initiative will help achieve the CWP goal by developing an SMP for that important waterway. The CWP further calls for planning "that compiles and develops near-term projects and methods to support economically important water-based recreation" (SWP p. 10-12). South Boulder Creek is an important recreational resource close to major population areas, with extensive public access through local open space properties. An enhanced South Boulder Creek will support greater recreational fishing, as well as enhancing related recreational activities such as hiking and biking on stream front trails. The SMP process will help provide that improved recreational amenity for Boulder County and its visitors.

The CWP also identifies as a critical action for its storage goal: "Prioritize grants and loans to support the implementation of BIP-identified multipurpose projects and methods, taking into consideration locally identified geographic and seasonal gaps" (SWP p.10-11). The South Boulder Creek SMP will support successful use of the Gross Reservoir Environmental Pool, part of the multi-purpose Moffat Collection System IPP. By facilitating successful mitigation it will advance IPP implementation, as well as helping to meet the environmental flow gap for South Boulder Creek.

In a similar vein, the SMP will help multiple elements of the South Platte Basin Implementation Plan. As previously described, assisting with planned mitigation for the Moffat Firming Project will help "maximize the implementation of IPPs" (BIP 5.5.1). Developing next steps for environmental flow management, fish passage, and potential habitat improvement projects along a stream stretch with significant public access, will also "protect and enhance environmental and recreation attributes" (BIP 5.5.5). Finally, community outreach will advance the BIP element to "facilitate South Platte communications and outreach programs" (BIP 5.5.9).

This project complies with the criteria for state support. It demonstrates "a commitment to collaboration" (SWP p.9-43) by facilitating the multi-purpose aspects of the Moffat Collection System IPP, involving multiple stakeholders including local governments, and providing (through the stakeholder outreach program) opportunities for public input. It will "address an identified water gap" (SWP p.9-44) by helping fill the non-consumptive gap on South Boulder Creek – and insofar as this also assists in implementing required mitigation for the Moffat Collection System project, indirectly helping with the region's consumptive gap as well. The SMP will "demonstrate sustainability" (SWP p.9-44), not only avoiding adverse impacts but creating positive impacts on the environment and facilitating a water-sharing program through which water delivered for municipal use will create environmental and recreational benefits. Finally, the results of the SMP to date and plans going forward demonstrate "fiscal and technical feasibility" (SWP p.9-44). Local partners are contributing both cash and in-kind to the project, and the combination of Denver Water, Lafayette, and Boulder have the capacity and commitment to provide implementation funds for the ultimate action phases (construction of the environmental pool as part of Gross Reservoir; final design/build of infrastructure improvements).

(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)
Trout Unlimited (cash, in-kind) – confirmed	\$15,000 / \$20,000
City of Lafayette (cash, in-kind) – request in process (participation confirmed)	\$0 / \$2,000



Last Update: July 31, 2018

Matching Requirements: Basin Account Requests	
Denver Water (cash, in-kind) – confirmed	\$10,000 / \$3,000
City of Boulder (cash, in-kind) – confirmed (Note: City of Boulder cash match is \$75,000. \$20,000 of this is aligned to our original scope of work. The remaining \$55,000 will extend the scope to allow a final engineering design of one structure)	\$20,000 / \$8,000
US Fish & Wildlife Service – Native Species Recovery Funds – request in process	\$40,000 / \$0
Great Plains Fish Recovery Program Grants – request in process	\$20,000 / \$0
Total Match (cash and in-kind)	Cash: \$45,000 confirmed and \$60,000 pending In-Kind: \$31,000 confirmed and \$2,000 pending
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):
Total Match	\$
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.

Last Update: July 31, 2018

Related Studies

This project builds on the South Boulder Creek Stream Management Plan Phase I grant outcomes as described above. Additionally, it will help enhance the ability to meet minimum in-stream flows on a stretch protected by a CWCB appropriation (1-80CW379A) that was limited by water availability. Boulder and Lafayette will coordinate with the In-stream Flow and Natural Lake Level program on the legal mechanisms to best protect the additional flow en route to its ultimate point of diversion.

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

Colorado Trout Unlimited, South Boulder Creek Stream Management Plan – Phase I, South Platte and Metro Basin Roundtables, 3/20/19, Purchase order#: P0GG1 2019-2848

Colorado Trout Unlimited, Species Trust Big Barnes Fish Passage Design, 1/8/16, Purchase order # PO PDAA 20160000000000006486

Boulder Flycasters, Rogers Park Restoration, Healthy Rivers Fund grant, final report (2009) available: <https://dnrweblink.state.co.us/cwcb/0/doc/139063/Electronic.aspx?searchid=0bf57dd9-a907-47b3-adc7-acadbec168b0>

Tax Payer Bill of Rights

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

As a non-governmental entity, CTU is not subject to any separate TABOR limitations.



Last Update: January 9, 2018

Colorado Water Conservation Board	
Water Supply Reserve Fund	
<u>Exhibit A – Statement of Work</u>	
Date:	February 1, 2020
Water Activity Name:	South Boulder Creek Stream Management Plan, Phase II and Infrastructure Design Preliminary Engineering Design of Physical Infrastructure Modifications (WSR Phase I)
Grant Recipient:	Colorado Trout Unlimited (Grantee) / Boulder Flycasters (Program Manager)
Funding Source:	Water Supply Reserve Fund
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>CTU will complete the Stream Management Plan (SMP) effort for South Boulder Creek in Boulder County, on the ~9 miles from the mouth of Eldorado Canyon to the Boulder Creek confluence. This stretch is notable as a working river delivering water to many users (17 ditch head gates with diversion structures), for extensive public recreational access (along ~5 miles of City of Boulder open space), and potential environmental value for native species (8 sensitive, threatened or endangered). In Phase I, we established a core stakeholder group/SMP steering committee, launched broader stakeholder communications, established a river health assessment methodology, assessed and prioritized in-stream physical infrastructure, and sampled representative channel cross-sections for flow requirements. With Phase II, we propose to close data gaps in support of the river health assessment, complete flow and physical condition assessments, complete the RHA analysis across flow and physical condition scenarios; document physical infrastructure modification concepts / engineering designs (15-20% for 2 highest priority structures, 5-10% for 3 lower priority structures), and execute the stakeholder communications plan to expand awareness and engagement.</p> <p>Funds will be used primarily for contractors: professional services in support of data management and analysis, survey and modeling, engineering design, outreach, associated information technology.</p>	
Objectives:	
<p>Objective 1: Develop working collaboration between key stakeholders committed to habitat quality, and water quantity and quality</p> <p>Objective 2: Improve understanding of the current state, challenges and future opportunities for improvement to the SBC watershed</p> <p>Objective 3: Define specific opportunities and projects to support implementation of the proposed Environmental Pool within Gross Reservoir, and to improve the aquatic and riparian environment to achieve the recreational and environmental objectives of the local stakeholders.</p>	

Last Update: January 9, 2018

Tasks
Provide a detailed description of each task using the following format:
<u>Task 1 - Execute Stakeholder Communications Plan</u>
Description of Task:
<p>Stakeholder engagement will be accomplished through two sub-task areas: Steering Committee involvement and stakeholder outreach, as defined in the Communications Plan. The Steering Committee is made up Denver Water, Boulder Water, Boulder Open Space & Mountain Parks (OSMP), Lafayette Water and BFC / CTU. This group will continue forward. Cooperation will be very important in order to implement and use the Environmental Pool (a complex effort), implement other watershed improvements, as well as operating on-going monitoring in order to ensure habitat quality, water quantity / quality and in-stream flow goals are met. The stakeholder outreach will inform and engage other involved/affected parties as described in the Communications Plan developed in the Phase I Stream Management Plan.</p>
Method/Procedure:
<ul style="list-style-type: none"> ◦ Execute the Communications Plan: <ul style="list-style-type: none"> ▪ Steering Committee (Direct Project Partners): Coordinate and regularly meet with Steering Committee to provide project updates and solicit input and assistance from committee members, which include City of Boulder – Water Utilities Division, City of Boulder – Open Space & Mountain Parks, City of Lafayette – Public Works, Denver Water, TU / Boulder Flycasters, Biohabitats Consulting Team. Meetings will be held roughly every other month depending on project schedule. ▪ Core (Directly Affected) Stakeholders: Directly communicate with High Priority Infrastructure Owners and High Priority Water Rights Owners as identified in Communication Plan to continue coordination that started in Phase I. ▪ Secondary (Indirectly Effected) Stakeholders: Initiate and carry out interaction with Other Infrastructure Owners (Ditch Companies and Commercial Entities), Other Water Rights Owners (Other Private, Industrial, Commercial and Municipal Entities), and Proximate Private Landowners as identified in Communication Plan. ▪ Other Related Stakeholders: Inform applicable Conservation / Advocacy / Recreational Groups with a Boulder Creek Watershed Mission and Other Adjacent Private Landowners about project. ▪ General Public as Stakeholder: provide outreach regarding project to general public. ▪ The Communication Plan also identifies an Advisors stakeholder group: Colorado Water Conservation Board, Colorado Parks & Wildlife, District Water Commissioner, Colorado TU, Other SMP Projects, and the Metro and South Platte Basin Roundtables. They will be consulted throughout the project as needed.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
<ul style="list-style-type: none"> • Stakeholder group specific messaging package • Stakeholder meetings and related schedules
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
<ul style="list-style-type: none"> • Stakeholder group specific messaging package • Notes documenting stakeholder meetings and related schedules



Last Update: January 9, 2018

Tasks
Provide a detailed description of each task using the following format:
Task 2 – Close Data/Criteria Gaps to Support River Health Assessment, Flow & Infrastructure Tasks
Description of Task:
Use the Gap Assessment from SMP Phase I to gather or obtain the data and target criteria information needed to complete the Flow, RHA, and Infrastructure tasks as described below.
Method/Procedure:
<ul style="list-style-type: none">◦ Estimate flow data based on StateMod and available gauge information<ul style="list-style-type: none">▪ Develop a daily point-flow model, using the StateMod underlying data where appropriate.▪ Develop spreadsheet tool for existing and natural flows on daily time-step.◦ Close criteria gaps and finalize assessment procedure for River Health Assessment<ul style="list-style-type: none">▪ Define sub-reaches for assessment.▪ Review draft assessment procedure and refine approach based on updated data sources and information.▪ Determine criteria necessary to evaluate remaining categories.◦ Develop “highest practical” scenario<ul style="list-style-type: none">▪ Create potential scenario alternatives▪ Refine “highest practical” scenario definition through further discussion with Steering Committee◦ Close data gaps based on final criteria and as identified in Phase I.<ul style="list-style-type: none">▪ Review compiled data list and, with stakeholder’s assistance, search for information to fill existing data gaps and add to inventory.▪ In cases where data are not available, adjust criteria or make assumptions to move forward with available information.◦ Finalize Infrastructure Assessment<ul style="list-style-type: none">▪ Review compiled information on structures.▪ Add missing information.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
<ul style="list-style-type: none">• Spreadsheet flow tool• Finalized RHA criteria• Finalized data compilation• Final structure assessment
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
<ul style="list-style-type: none">• Copy of spreadsheet flow tool• Report including finalized RHA criteria and data compilation• Copy of final structure assessment report
Tasks



Last Update: January 9, 2018

Tasks
Provide a detailed description of each task using the following format:
Task 3 – Conduct River Health and State Water Plan Values & Goals Assessment
Description of Task:
Use the agreed-to methodology from Phase I combined with Phase II data / criteria gap collection in Task 2 above. Continue to analyze and update flow requirements in conjunction with the RHA. Based on assessment results, complete analysis of restoration opportunities and constraints.
Method/Procedure:
<ul style="list-style-type: none">◦ Perform desk top analysis of stream conditions to evaluate applicable categories and help prepare for field visits (below)<ul style="list-style-type: none">▪ Complete Level 1 assessment of RHA categories◦ Conduct field work necessary to complete RHA<ul style="list-style-type: none">▪ Prepare field forms for data collection▪ Complete Level 2 assessment for applicable categories that require field assessment and verification◦ Display baseline and augmented assessment results for river health<ul style="list-style-type: none">▪ Produce maps showing results for existing conditions▪ Show augmented effects of Environmental Pool Scenario and “highest practical” scenario to river health◦ Integrate recreation component<ul style="list-style-type: none">▪ Collect recreational use information from OSMP and other identified available sources▪ Include results in restoration analysis, below◦ Complete ecological restoration opportunities analysis<ul style="list-style-type: none">▪ Evaluate restoration opportunities and constraints▪ Develop data to support analysis and results▪ Identify potential restoration projects
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
<ul style="list-style-type: none">• River Health Assessment results• Ecological Restoration analysis results• Non-structural project recommendations
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
<ul style="list-style-type: none">• Final report with River Health Assessment and Ecological Restoration analysis results• Inventory of non-structural project recommendations

Tasks



Last Update: January 9, 2018

Tasks
Provide a detailed description of each task using the following format:
Task 4 – Develop Designs for Highest Priority Structures, and Concepts or Recommendations for Other Physical Infrastructure Modifications
Description of Task:
Based on IGAs and the SMP Phase I assessment of infrastructure, develop 15-20% level preliminary engineering designs for the two most complex Priority 1 structures. Develop 5-10% conceptual designs for the three lower complexity Priority 1 structures. Make notation-based recommendations for remaining structures, as appropriate.
Method/Procedure:
<ul style="list-style-type: none">◦ Develop 15-20% designs for two (2) high-complexity, Priority 1 structures<ul style="list-style-type: none">▪ Using data gathered in the SMP Phase I and input from pertinent stakeholders, develop two to three potential alternatives▪ Discuss alternatives with Steering Committee and determine preferred design.▪ Develop 15% designs (planview, sections, notes)▪ Develop opinions of probable cost◦ Develop 5-10% level concept designs for the three (3) lower-complexity, Priority 1 structures<ul style="list-style-type: none">▪ Put together conceptual figures for each structure consisting of marked up photos and notes▪ Provide planning-level cost estimates◦ Provide recommendations for Priority 2 structures for future planning purposes<ul style="list-style-type: none">▪ Engineering note descriptions of potential actions that could be taken along with photos.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
<ul style="list-style-type: none">• 15-20% designs for New Dry Creek Carrier and East Boulder Ditch structures including opinion of probable cost• 5-10% level concept designs for the three lower complexity Priority 1 structures including opinion of probable cost• Engineering notes and photos for Priority 2 structures including planning-level cost estimate
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
<ul style="list-style-type: none">• 15-20% designs for New Dry Creek Carrier and East Boulder Ditch structures including opinion of probable cost• 5-10% level concept designs for the three lower complexity Priority 1 structures including opinion of probable cost• Engineering notes and photos for Priority 2 structures including planning-level cost estimate



Last Update: January 9, 2018

Tasks
Provide a detailed description of each task using the following format:
<u>Task 5 - Program Management and Administration</u>
Description of Task:
Overall management of the project, including budget tracking, periodic reporting, task deliverable tracking, and final deliverables development.
Method/Procedure:
<ul style="list-style-type: none">◦ Program Management Office – administrative and coordination◦ Funding Sources Reporting<ul style="list-style-type: none">▪ Grant administration and reporting▪ Periodic reporting to governance and other interested parties◦ Third Party / Contract Services<ul style="list-style-type: none">▪ Prepare Scope and Fees agreements▪ Manage and report on third party contracts◦ Budget tracking and management<ul style="list-style-type: none">▪ Budget tracking and management▪ In-Kind and third-party donations (time tracking)◦ Manage Deliverables<ul style="list-style-type: none">▪ Oversee and critique task level deliverables▪ Consolidate findings, recommendations, projects and next steps as developed◦ Stakeholder and Other Third-Party Status Reporting<ul style="list-style-type: none">▪ Prepare Steering Committee agendas, presentations, handouts, etc.▪ Prepare third party reporting and presentation packages◦ Project Final Reports / Deliverables<ul style="list-style-type: none">▪ Create and / or manage the creation of final deliverables
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
<ul style="list-style-type: none">● Grant Specific Reports● RFPs as needed● Budget Reporting● In-Kind Donation Reports / Time Sheets● Briefing Documents, Archive, Running Status● Deliverables Library● Final Report Each Funding Source, Stakeholder Group and Public
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
<ul style="list-style-type: none">● RFPs for subcontracting● Progress and Final report● Library of deliverables for previously noted tasks



Last Update: January 9, 2018

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.

EXHIBIT B - BUDGET AND SCHEDULE - Direct & Indirect (Administrative) Costs

Water Activity Name: South Boulder Creek Stream Management Plan, Phase II and Infrastructure Design Preliminary Engineering Design of Physical Infrastructure Modifications Phase I

<u>Task No.</u> ⁽¹⁾	<u>Description</u>	<u>Start Date</u> ⁽²⁾	<u>End Date</u>	<u>Matching Funds</u> <u>(cash & in-kind)</u> ⁽³⁾	<u>WSRF Funds</u> <u>(Basin &</u> <u>Statewide</u> <u>combined)</u> ⁽³⁾	<u>Total</u>
1	Execute Stakeholder Communications Plan	4/1/2020	8/31/2021	\$20,800	\$6,900	\$27,700
2	Close Data and Criteria Gaps	5/1/2020	9/30/2020	\$36,100	\$24,100	\$60,200
3	Conduct River Health Assessment & Ecological Opportunities Analysis	8/1/2020	7/31/2021	\$80,300	\$15,000	\$95,300
4	Develop Designs for Priority 1 Structures and Concepts/Recommendations for Other Structures	9/1/2020	6/30/2021	\$74,350	\$24,250	\$98,600
5	Program Management/Administration	4/1/2020	8/31/2021	\$29,450	\$9,750	\$39,200
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
Total				\$241,000	\$80,000	\$321,000

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

• 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.

• 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.

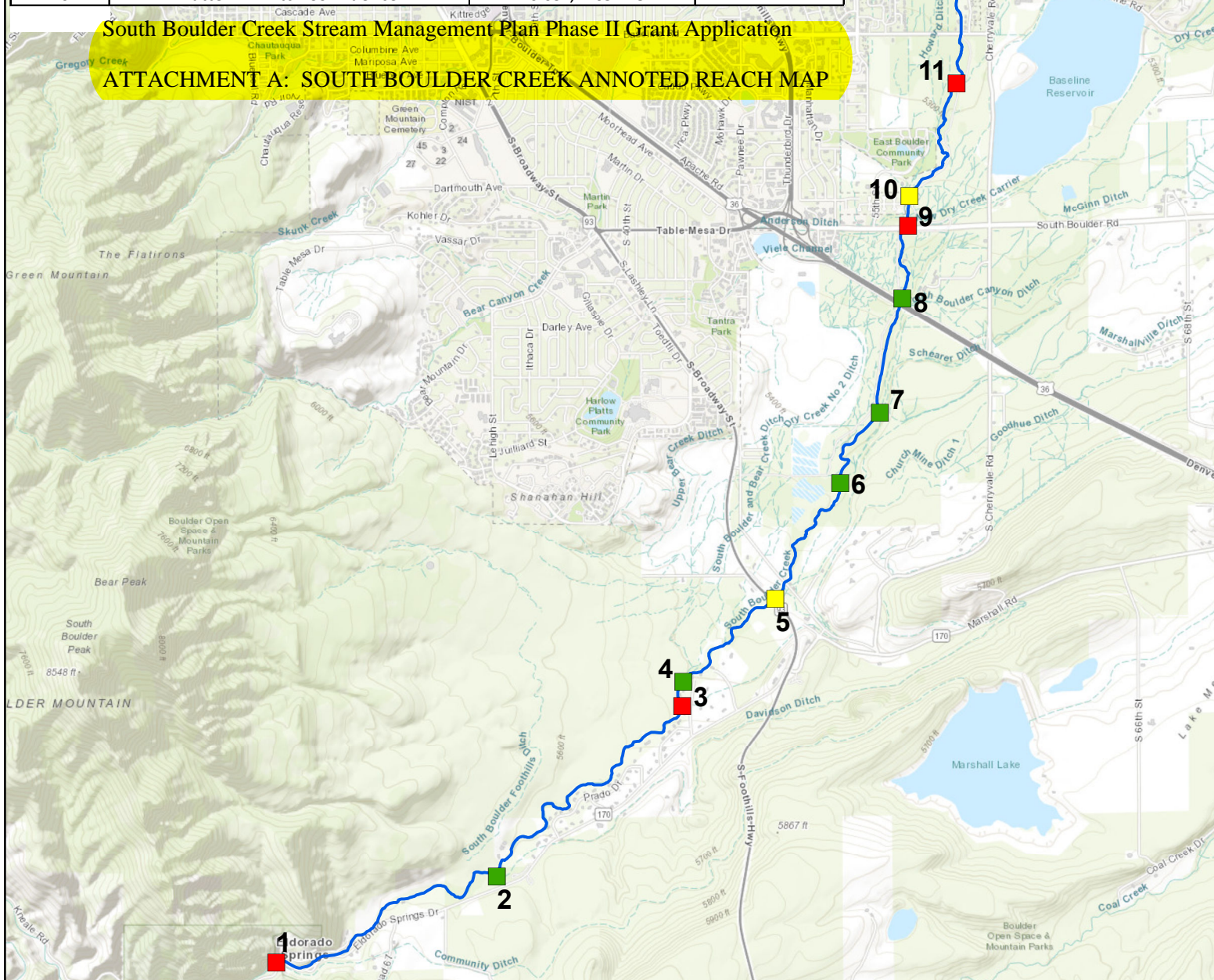
- Additionally, the applicant shall provide a progress report every 6 months, beginning from the date of contract execution

Page 1 of

Structure	Name	Location	Priority Group
1	Community Ditch	39.932, -105.281	1
2	Davidson Ditch	39.939, -105.23	3
3	Goodhue Ditch	39.951, -105.242	1
4	S Boulder Canon Ditch	39.972, -105.223	3
5	Marshallville Ditch	39.959, -105.233	2
6	Schearer Ditch	39.968, -105.227	3
7	S Boulder Bear Cr Ditch	39.953, -105.242	3
8	McGinn Ditch	39.981, -105.221	3
9	New Dry Cr Carrier Ditch	39.986, -105.221	1
10	Howard Ditch	39.989, -105.22	2
11	East Boulder Ditch	39.996, -105.216	1
12	Legget-Valmont Inlet D	40.016, -105.214	1
13	Series of concrete weirs and pipe crossings	40.022, -105.216	3
14	KOA Inlet	40.026, -105.217	3
15	KOA Outlet	40.029, -105.218	2
16	Butte Mill Ditch Confluence	40.031, -105.218	2

South Boulder Creek Stream Management Plan Phase II Grant Application

ATTACHMENT A: SOUTH BOULDER CREEK ANNOTED REACH MAP



Lower South Boulder Creek Diversion Structure Summary

Structures - Priority Group



1



2



3



Lower South
Boulder Creek

0 2,000 4,000 Feet



October 2019

Sources: Boulder County, CDSS, ESRI, HERE, Garmin, Intermap, USGS

Chris Sturm
Colorado Water Conservation Board
1313 Sherman Street, Room 721
Denver, CO 80203

November 22, 2019

RE: Letter of Support for the South Boulder Creek Watershed Restoration Grant, Stream Management Plan Phase II. Application by the Colorado Trout Unlimited and Boulder Flycasters Chapter of Trout Unlimited

Dear Chris,

Denver Water is writing this letter in support of the South Boulder Creek (SBC) Watershed Restoration Grant application to the Colorado Water Conservation Board. This request is for the Stream Management Plan (SMP) Watershed Restoration Grant, Phase II being submitted by Colorado Trout Unlimited (CTU) and Boulder Flycasters Chapter of Trout Unlimited (BFC). Completion of this project will create a plan forward for the stream health and resiliency of lower SBC. This next phase is important as it will bring forward specific implementation plans for hydrological, biological and geomorphological improvement opportunities.

During the SMP Phase I, CTU / BFC has collaboratively brought together the appropriate stakeholders of lower SBC, including Denver Water. The plan proposed by CTU / BFC will help identify priority needs for river restoration and promote opportunities for multi-benefit partnerships among conservationists, recreationists, municipalities, agricultural, and other stakeholders. The CTU / BFC proposal will culminate in completion of the SMP aligned with the goals of CWCB and stakeholders.

Denver Water is pleased that the proposed plan will address important stakeholder specific needs. Specifically, addressing low flow passage and administration, consolidating a wide trove of South Boulder Creek data into a single repository for fact-based decision-making, and providing a comprehensive health assessment of the stretch, resulting in concrete improvement opportunities.

Denver Water is pleased to support this project, both through cash and in-kind staff time matching. Denver Water is contributing \$10,000 in 2019 towards the SMP Phase II. Denver Water will continue in-kind support as the SMP moves from Phase I to Phase II.

Additionally, we would like to make CWCB aware of the level of financial support that we are providing outside of the formal grant / project process. This includes the monies committed to build the Environmental Pool (Denver Waters' share is estimated to be \$4,500,000), resulting in available storage for augmented flows, when the Gross Dam expansion project is completed. We also financed significant stream improvements in coordination with the City of Boulder along a sub-reach of lower SBC, with work concluding in 2019 at a cost just under \$650,000.



1600 West 12th Ave
Denver, CO 80204-3412
303.628.6000
denverwater.org

We look forward to working with CTU / BFC to create an improved plan for lower SBC's health and resiliency.

Sincerely,

A handwritten signature in black ink, appearing to read 'Dave Bennett', with a long, sweeping horizontal line extending from the end of the signature.

Dave Bennett
Director Water Resource Strategy

Chris Sturm
Colorado Water Conservation Board
1313 Sherman Street, Room 721
Denver, CO 80203

November 22, 2019

**RE: Letter of Support for the South Boulder Creek Watershed Restoration Grant,
Watershed Restoration Phase I. Application by the Colorado Trout Unlimited and
Boulder Flycasters Chapter of Trout Unlimited**

Dear Chris,

Denver Water is writing this letter in support of the South Boulder Creek (SBC) Watershed Restoration Grant application to the Colorado Water Conservation Board. This request is for Watershed Restoration (WSR), Phase I being submitted by Colorado Trout Unlimited (CTU) and Boulder Flycasters Chapter of Trout Unlimited (BFC). Completion of this project will provide preliminary engineering designs for structures inhibiting low flow on lower SBC. This project resulted from the existing Stream Management Plan (SMP) – Phase I recommendations.

During the SMP Phase I, CTU / BFC has collaboratively brought together the appropriate stakeholders of lower SBC, including Denver Water. This “spin out project” from the SMP proposed by CTU / BFC will focus on the Priority 1 structures that inhibit low flow passage and administration. In doing so, the goal of the project is to broaden the group of stakeholders directly engaged in the overall SMP process.

Denver Water is pleased to support this project through in-kind financial support, in the form of staff hours. Staff support to the project will be provided in calendar year 2020 and continue through calendar year 2021 and is estimated to be \$3,000.

Additionally, we would like to make CWCB aware of the level of financial support that we are providing outside of the formal grant / project process. This includes the monies committed to build the Environmental Pool (Denver Waters’ share is estimated to be \$4,500,000), resulting in available storage for augmented flows, when the Gross Dam expansion project is completed. We also financed significant stream improvements in coordination with the City of Boulder along a sub-reach of lower SBC, with work concluding in 2019 at a cost just under \$650,000.

We look forward to working with CTU / BFC to create an improved plan for lower SBC’s health and resiliency.

Sincerely,



Dave Bennett
Director Water Resource Strategy