

Scope of Work

GRANTEE - Wildlands Restoration Volunteers

PROJECT NAME - Boulder Creek Riparian Restoration

GRANT AMOUNT – \$11,940

INTRODUCTION AND BACKGROUND

In the arid West, healthy riparian areas are essential to the survival of 80% of resident wildlife species. Centuries of grazing pressure and urban development, have denuded many riparian areas throughout Colorado of their most important feature, a biologically and structurally diverse tree and shrub component. Many streams along the Front Range of Colorado have been severely impacted by human activity, particularly in urban areas.

The project for which this funding has been approved is the 3rd phase of a longer term project to reverse that trend along a stretch of Middle Boulder Creek, between 55th and Valmont Road in Boulder, Colorado. In this area, historic wetlands have been degraded or eliminated and much of the historic native plains riparian community has been replaced by a non-native mixture of trees, with reduced value to wildlife. The non-native tree canopy is unnaturally dense, which overly shades the ground and prevents native understory shrubs, grasses and wildlife from thriving.

In 2010, WRV entered into an agreement with the City of Boulder to formally “adopt” this stretch of Boulder Creek, and completed the first phase of restoration work in 2010. The proposed work will transform this section of non-native trees and understory into a thriving riparian area. City of Boulder staffers’ anecdotal reports already state that more raptors and songbirds have been sighted in the area since work has begun as compared to beforehand. Once work is finished at the end of June, 2012, many of the virtually all mature, non-native trees will be removed from the interior of the site, allowing existing and new cottonwoods to thrive. The native plants and shrubs planted in their place will eventually provide a more diverse structure and food source for native wildlife. In spring of 2012, this project will require approximately 420 volunteer hours to complete restoration plans.

The scope of this funding request covers work to be planned and completed from January, 2012 through June 30, 2012, building upon the success of several previous volunteer events conducted at the site through November, 2011.

NOTE – budget has been reduced in several categories due to the change of scope from the original proposal, which would have covered a longer season of work, and some matching funds were moved to other parts of the season (i.e., Boulder OSMP will be providing an in-kind match not just through 6/30/2012 but through 11/31/2012, so the budget now shows a percentage of that match to coordinate with activity done before 6/30/2012).

OBJECTIVES

List the objectives of the project. Please include objectives for all aspects of the project whether funded by the CWCB or not.

The main objectives of the Boulder Creek Adopt Site, funded by CWCB is to continue to restore and enhance 12 acres of riparian habitat bordering 1,700 linear feet of Boulder Creek by: a) Removing six exotic species from six acres; b) Planting thousands of native plants, trees, and shrubs; c) Improving habitat of two rare/TES species (Preble's meadow jumping mouse and Ute ladies' tresses orchid) and one species currently under consideration for ESA listing (northern leopard frog).

Specifically during this grant period, the main objectives of the project, funded by CWCB, are to: a) Remove two exotic species (houndstongue and thistle) from zones throughout the six acres; b) continue to remove invasive mature trees in concert with city efforts, including cut-stump and dragging debris off-site; and c) plant approximately 2,500 riparian and wetland plants in appropriate zones. These objectives may change slightly subject to the constraints of the needs of nesting raptors and agency guidance due to on-the-ground realities during spring site visits, but any change would be within the context of the main objectives of the Adopt Site, and would approximate a similar scope of work.

WRV staff and pro bono consultants (volunteers) will work with partner agency staff to carry out project planning and implementation of the technical design, and monitoring to achieve these objectives. WRV will also recruit most of the volunteers, train volunteer leaders, plan and execute at least one on-the-ground volunteer project, and provide on-site environmental educational programs.

Another objective of this project, not funded by CWCB, is to involve new demographics from the neighboring San Lazaro mobile home park in the volunteer restoration work at Boulder Creek. WRV staff and volunteers will conduct outreach to this demographic.

TASK 1 – Volunteer Recruitment

Description of Task

Staff time will be used to recruit and coordinate an estimated 420 volunteer hours spent on direct implementation of restoration work.

Method/Procedure

Appropriate to the need, methods include presenting slide shows at social events, contacting the press, hanging fliers, networking strategically to reach out to neighborhoods near the adopt-site, using our email listserv of over 3,000 people, our print newsletter, facebook, and our website to attract volunteers, and reaching out to CU Boulder and Naropa, as well as local schools to engage youth. Additional help will be provided by Spanish-speaking volunteers to canvass the neighboring San Lazaro mobile home community, visit San Lazaro HOA meetings, translate project detail emails and fliers, and supply help on project day for non-English speakers on the project.

Deliverable

Sufficient numbers of volunteers will attend events to achieve tangible results. In the spring season, this will involve approximately 40 volunteers. Examples of earned media, fliers, facebook posts, and other recruitment outreach can be provided if necessary.

TASK 2 – Volunteer Training

Description of Task

Staff time will be used to coordinate an extensive volunteer training program which provides the technical, leadership, and safety skills required of our various leadership roles.

Method/Procedure

In order to carry out continuing work at the Boulder Creek adopt-site, WRV will recruit and train at least 50 new leaders at all levels: crew leaders, technical assistants, project leaders, cooks, medics, and tool managers. WRV has developed and deployed a series of leadership training courses, instituted a mentoring program, and provides ongoing feedback and skill enhancement opportunities for anyone who is interested in playing a leadership role. No experience is necessary; desire to be a leader is the only requirement. Volunteers who want to move up into leadership positions will be paired with an experienced project leader. While serving in the “assistant position”, trainees will observe, take on specific assignments and learn the ropes of running a WRV project. WRV continually searches for additional training sessions for its members - Technical restoration skills, project management skills, communication skills, botany skills; all are available for little or no charge, and scholarships are available if income is a barrier.

Deliverable

Sufficient qualified and trained volunteers will provide leadership to complete professional-quality restoration at Boulder Creek.

TASK 3 – Project Planning/Design

Description of Task

WRV staff and pro bono consultants (volunteers) will work with partner agency staff to carry out implementation and evolution of the technical design.

Method/Procedure

Design will involve update of simple maps to delineate zones of planting with species information. Site visits with WRV staff, City of Boulder staff and volunteer leadership team will refine size of volunteer crews, placement of native plants and specific areas volunteers will focus efforts to remove invasive species. This will include any new or seasonal information, such as nesting raptor locations near which activity must be limited, etc. Site analysis will refine specifications for materials, type and number of tools, and estimates of labor requirements per project day.

Deliverable

Maps and sufficient tools and materials will be available on project days for professional quality results.

TASK 4 – Project Management/Logistical Support

Description of Task

WRV staff will ensure the right number of volunteers and volunteer leaders are recruited to the projects as scheduled, will ensure that adequate tools, food and safety gear are available at the project site, and will communicate with volunteer leaders, youth groups and business partners throughout the project day to ensure completion of tasks proceeds smoothly.

Method/Procedure

Work may include:

- ❖ Removal of biennial weeds (musk thistle and houndstongue) through mechanical and chemical methods, utilizing a combo of volunteer labor and City staff.
- ❖ Removal of non-native trees (e.g. crack willow, Russian olive, green ash, Siberian elm). Small trees removed by volunteers. Large trees removed pro bono by 303Tree, a professional tree contractor, and OSMP staff.
- ❖ Plant approx 2,500 wetland and riparian plants, and provide follow-up watering.

Deliverable

The resulting restored habitat will better support a variety of riparian- and wetland-dependent species including a number of neo-tropical migrant songbirds and the northern leopard frog, and may someday be inhabited by Preble's meadow jumping mouse, northern leopard frog and Ute ladies' tresses.

TASK 5 – Evaluation/Monitoring

Description of Task

Long-term assessment will be primarily implemented by City of Boulder OSMP with possible involvement from WRV staff and volunteers when appropriate. Attaining project objectives is dependent upon the successful establishment of a biologically and structurally diverse riparian plant community in the restored areas. Photo points with GPS locations document the original riparian conditions at each site, with notes and dates attached to the photos; successive seasons' photos and notes will be used to assess future success.

Method/Procedure

In the short term (1-2 years), Boulder OSMP will qualitatively, visually estimate plant survival using GPS photo points to determine the success of the planting plan and response of the plan to environmental conditions. In the mid term (3-4 years), Boulder OSMP will use GPS photo points to qualitatively, visually estimate and document shrub and tree diversity and cover in riparian areas, and compare to original conditions. These methods will be applied for WRV's work at this site in general – not just during this grant cycle.

Since this project is part of a multi-phased adopt site with long-term involvement of the project partners, when the volunteer team gathers with Boulder OSMP in the spring of 2012, information from qualitative visual estimates will be used. If plantings are not successful, for example, they will be adjusted and re-done in future project phases. If expectations for the reduction of biennial

weed infestation are not met, changes will be made to the work plan for upcoming volunteer projects.

Project debriefs will be conducted by the volunteer leadership team after completion of the project. An internal WRV committee will feed the conclusions back into continued training and project design for following events.

Deliverable

A spreadsheet will be created with prioritization of the highest value recommendations. Technical notes and maps will be created in the spring of 2012 for the year's work, and will show adaptations made based on the efficacy of the last year's work.

REPORTING AND FINAL DELIVERABLE

The applicant shall provide the CWCB a final report of the results of the project. The report shall describe the completion or partial completion 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.

WATER CONSERVATION BOARD
1313 SHERMAN STREET, ROOM 721
DENVER, CO 80203

DATE: 02-03-12



**PURCHASE
ORDER**
STATE OF COLORADO

Buyer: ALLAN SMITH
Phone Number: 303-866-3292
Agency Contact: STEVEN SHULL
Phone Number: 303 866 3441

IMPORTANT
The PO# and Line # must
appear on all invoices,
packing slips, cartons
and correspondence

P.O. # OE PDA 12000000057 Page# 01

ACC: 02-02-12

State Award #

FEIN 460505155 Phone: 303-543-1411

Vendor Contact:

Purchase Requisition #:

V
E
N
D
O
R
WILDLANDS RESTORATION VOLUNTEERS
3012 STERLING CIR UNIT 201
BOULDER CO 80301

BID #

Invoice in Triplicate

To: DIVISION OF WATER CONSERVATION
1313 SHERMAN STREET, ROOM 721
DENVER, CO 80203

Payment will be made by this agency

Ship To: DIVISION OF WATER CONSERVATION
1313 SHERMAN STREET, ROOM 721
DENVER, CO 80203

Delivery/Installation Date: 06-30-12
F.O.B. DESTINATION STATE PAYS NO FREIGHT

INSTRUCTIONS TO VENDOR:

1. If for any reason, delivery of this order is delayed beyond the delivery/installation date shown, please notify the agency contact named at the top left. (Right of cancellation is reserved in instances in which timely delivery is not made.)
2. All chemicals, equipment and materials must conform to the standards required by OSHA.
3. NOTE: Additional terms and conditions on reverse side.

SPECIAL INSTRUCTIONS:

LINE ITEM	COMMODITY/ITEM CODE	UNIT OF MEASUREMENT	QUANTITY	UNIT COST	TOTAL ITEM COST
001	91843000000				\$11,940.00
	SEV TAX GRANT-BOULDER CRK RIPARIAN RESTORATION BETWEEN 55TH & VALMONT ROAD. PER SOW. CMS#40743.				

DOCUMENT TOTAL =

\$11,940.00

THIS PO IS ISSUED IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS
This PO is effective on the date signed by the authorized individual.

EPSPO PAA

FOR THE STATE OF COLORADO

A handwritten signature in dark ink, appearing to read "Allan Smith".

Authorized Signature

2/6/12

Date

Boulder Creek Adopt Site Riparian Restoration

Grantee: Wildlands Restoration Volunteers

Address: 3012 Sterling Circle, Suite #201

Phone No.: 303-543-1411 X 6#

CWCB Contract or
Purchase Order No.: OE PDA 12000000057

Grant Amount: \$11,940

Date of Invoice: 6/28/2012

FINALOK to pay (Chris Sturm)
6/29/12
Chris SturmOK
Revised 3. 2/29/12
b/m 9/12

Task	Description	Total Budget/Grant Funds	Previously Invoiced	Current Invoice	Remaining Total	Percent Complete
1	Staff (site visits, design, planning, vol. recruitment, project mgt)	\$7,900	\$0	\$7,900	\$0.00	100.0%
2	Materials (plants, cage & irrigation, seeds, amendments, etc.)	\$1,500	\$0	\$1,564	-\$64.25	104.3%
3	Transportation (truck rental to haul tools/materials, staff mileage)	\$240	\$0	\$106	\$134.48	44.0%
4	Food for volunteers (\$8/day/person)	\$350	\$0	\$215	\$134.99	61.4%
5	Professional services (invasive tree removal) - 2 person-days w/ chainsaws & chipper	\$0	\$0	\$0	\$0.00	#DIV/0!
6	Project Implementation - volunteers (420 hours @ \$21.62 Independent Sector Rate)	\$0	\$0	\$0	\$0.00	#DIV/0!
7	Tools and Equipment	\$300	\$0	\$300	\$0.00	100.0%
8	Volunteer leader training (riparian restoration skills, project support, first aid, crew leadership, etc.)	\$1,000	\$0	\$1,000	\$0.00	100.0%
9	Volunteer appreciation (awards program, celebrations)	\$200	\$0	\$200	\$0.00	100.0%
10	Accident Insurance for Volunteers	\$150	\$0	\$150	\$0.00	100.0%
11	Postage, Printing and misc. office costs	\$300	\$0	\$300	\$0.00	100.0%
12	Overhead	\$0	\$0	\$0	\$0.00	#DIV/0!
	TOTALS	\$11,940	\$0	\$11,735	\$205	

Submitted by: Sarah Egolf

Title: Development Coordinator

Signature: Sarah Egolf