

Scope of Work

GRANTEE and FISCAL AGENT (if different) - Rocky Mountain Field Institute

PROJECT NAME - Upper Glen Cove Creek Watershed Erosion Control and Restoration Project

GRANT AMOUNT – \$29,500

INTRODUCTION AND BACKGROUND

The *Upper Glen Cove Creek Watershed Erosion Control and Restoration Project* is an integral part of the *Pikes Peak Watershed Restoration Project* (PWRP). The PWRP is a large-scale, multi-year effort by the Pikes Peak Group of the Sierra Club, the City of Colorado Springs, the USDA Forest Service Pikes Peak Ranger District, and the Rocky Mountain Field Institute (RMFI) to improve water quality and protect natural resources in the watershed impacted by decades of previously uncontrolled stormwater runoff from the Pikes Peak Highway. Since 2005, RMFI and its partners have completed five major projects within the watershed including work within the North Crystal Creek, Ski Creek, Glen Cove Creek, and West Fork of Beaver Creek basins. These projects have resulted in over a mile and a half of stream channel restoration and stabilization and over 7.5 acres of restored forest and alpine lands.

The *Upper Glen Cove Creek Watershed Erosion Control and Restoration Project* will stabilize and mitigate erosion and sedimentation impacts in the creek's headwaters. Specifically, the project will restore a sub-alpine wetland (.43 acre) located within the headwater area to Glen Cove Creek at an elevation of 10,965 feet. Glen Cove Creek is a tributary to South Catamount Creek which feeds into the South Catamount Reservoir; a primary source of drinking water for the City of Colorado Springs. The wetland has been severely impacted by sedimentation carried by storm water flow through a conveyance channel emanating from the Pikes Peak Highway. This sediment has formed a large alluvial fan that has completely buried the pre-existing wetland. A stratigraphy study of the alluvial deposit indicates a typical fan formation with the deepest accumulations near the center of the fan and thinning towards the edges. At its deepest, over 6' of alluvium has buried the previous surface of the wetland. It is estimated that over 5,000 cubic yards of sediment has been deposited within the former wetland's basin. The conveyance channel was eliminated in 2011 as part of the engineered design for paving the Pikes Peak Highway in this area with the stormwater now being rerouted into the Ski Creek basin.

OBJECTIVES

The goal of the project is to improve the water quality of Glen Cove Creek. To meet that goal, RMFI, in conjunction with Fin-Up Habitat Consultants, will use mechanized equipment to remove 5,000 cubic yards of sediment that has buried the original wetland soils. Over 1,000 *carex aquatilis* (water sedge) plugs will be planted within the restored area. The project area will also be seeded with native Colorado stock *carex aquatilis* and *carex rostrata*. Restoration of the wetland will bring the wetland back to its predisturbance, functioning condition and provide protection to the upper Glen Cove Creek reach. In addition, 300' of the closed conveyance channel will be restored by recontouring the old channel and reseeded with native grasses.

TASKS

TASK 1 – Project Preparation and Implementation

Description of Task

1. Purchase and delivery of all restoration materials.
2. Pre-project preparation of work site by RMFI staff and supervised volunteers.
3. Removal of ~ 5,000 cubic yards of sediment from wetland area
4. Bank stabilization and restoration of 300' of the old conveyance channel through rock armoring and revegetation prescriptions.
5. Planting of ~ 1,000 *carex aquatilis* (water sedge) plugs and 1 acre of native seed within the project area.

Method/Procedure

1. 1,000 yards of erosion control matting, 30 lbs of native seed, and biodegradable stakes will be purchased and delivered to the worksite by June 1st, 2013.
2. Preparation of the work site, including the placement of BMP's to reduce the temporary impact of construction activities and work on the access to the wetland will be completed by July 6th, 2012 for this year and then by May 1st of 2013 by RMFI staff.
3. Working with Fin-Up Habitat Consultants and Chaparral Excavation, the sediment will be removed from the wetland site. On-site surveying will be completed by RMFI and Fin-Up Habitat Consultant staff. Chaparral will be onsite 5 to 7 days with one excavator, a loader, and two dump trucks. Sediment removal is anticipated to be completed by July 30th, 2012.
4. Staff from RMFI and supervised members from an AmeriCorps team will rock armor eroding banks and use large rock to stabilize bank toe slopes along 300' of the old conveyance channel. Native grass seed will be used to restore and stabilize denuded areas. Work will be completed by June 28th, 2013.
5. Staff from RMFI and supervised members from an AmeriCorps team will transplant up to 1000 *carex aquatilis* (water sedge) plugs within the project area, lay 10 rolls of erosion control matting to cover ~ 1/2 acre of disturbed land, and seed ~ 1 acre of disturbed forest land. Work will be completed by June 28th, 2013.

Deliverable

1. Erosion control matting, native seed, and stakes.
2. Work site prepared with BMP's and access.
3. 5,000 cubic yards of sediment is removed from the wetland.
4. Bank stabilization and restoration of 300' of the old conveyance channel.
5. Stabilization and restoration of the wetland and ~ 1 acre of forest land.

TASK 2 – Project Wrap-up and Reporting

Description of Task

1. Final clean up of work site and break down of BMP's.
2. Establish monitoring plots and cross-sections, collect post-project data.
3. Completion and distribution of final project report.

Method/Procedure

1. Staff from RMFI and supervised volunteers will remove all BMP's and all tool caches and restoration supplies by June 28th, 2013.
2. Monitoring plots and cross-sections will be established immediately following the conclusion of the project. The collection of post-project data will be completed by student interns from the University of Colorado at Colorado Springs and Colorado College supervised by Eric Billmeyer, Research Director, RMFI.
3. The final report will compile all pre and post project data, quantify project deliverables, and discuss project successes and challenges. In addition to providing the report to the CWCB, it will be made available on RMFI's website for public access.

Deliverable

1. N/A.
2. Data will be compiled and included in the final report.
3. Final report to be submitted by June 30th, 2013.

REPORTING AND FINAL DELIVERABLE

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress 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.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB 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.

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

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

DATE: 07-11-12

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

ACC: 07-10-12



**PURCHASE
ORDER**
STATE OF COLORADO

P.O. # OE PDA 13000000005 Page# 01

State Award #

FEIN 742225140 Phone: 719-471-7736
Vendor Contact:
Purchase Requisition #:

V
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D
O
R
ROCKY MOUNTAIN FIELD INSTITUTE INC
3310 W COLORADO AVE
COLORADO SPRINGS CO 80904

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.

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: 11-30-12
F.O.B. DESTINATION STATE PAYS NO FREIGHT

SPECIAL INSTRUCTIONS:

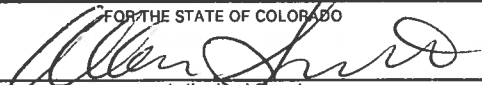
LINE ITEM	COMMODITY/ITEM CODE	UNIT OF MEASUREMENT	QUANTITY	UNIT COST	TOTAL ITEM COST
001	91843000000				\$29,500.00
	SEV TAX GRANT-UPPER GLEN COVE CREEK WATERSHED EROSION CONT- ROL & RETORATION PROJ. PER SOW. CMS#46830.				

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

EPSPO FAA

DOCUMENT TOTAL =
FOR THE STATE OF COLORADO

\$29,500.00


Authorized Signature

7/11/12
Date

Project Name : Upper Glen Cove Creek Watershed Erosion Control and Restoration Project

Grantee: Rocky Mountain Field Institute

Address: 815 SOUTH 25TH STREET, SUITE 101
COLORADO SPRINGS, CO 80904

Phone No.: 719-471-7736

CWCB Contract or
Purchase Order No.: OE PDA 13000000005

Grant Amount: \$29,500

Date of Invoice: 8/31/12

Task	Description	Total Budget/Grant Funds	Previously Invoiced	Current Invoice	Remaining Total	Percent Complete
1	PROJECT PREPARATION AND IMPLEMENTATION-PARTIAL	\$29,500	\$0	\$15,000	\$14,500.00	50.8%
2					\$0.00	#DIV/0!
3					\$0.00	#DIV/0!
4					\$0.00	#DIV/0!
5					\$0.00	#DIV/0!
6					\$0.00	#DIV/0!
7					\$0.00	#DIV/0!
TOTALS		\$29,500	\$0	\$15,000	\$14,500	

Submitted by: LIZ NICHOL

Title: OFFICE MANAGER

Signature: Liz Nichol

OK to pay

Chris (Chris Sturm)
11/23/12

OK
Kevin J. Houch
11/26/12

Project Name : Upper Glen Cove Creek Watershed Erosion Control and Restoration Project

Grantee: Rocky Mountain Field Institute

Address: 815 SOUTH 25TH STREET, SUITE 101
COLORADO SPRINGS, CO 80904

Phone No.: 719-471-7736

CWCB Contract or
Purchase Order No.: OE PDA 13000000005

Grant Amount: \$29,500

Date of Invoice: 6/16/2017

FINAL

OK to pay

Chris

6/24/13

(Chris Starn)

[Signature]

6/24/13

Task	Description	Total Budget/Grant Funds	Previously Invoiced	Current Invoice	Remaining Total	Percent Complete
1	PROJECT PREPARATION AND IMPLEMENTATION-PARTIAL	\$29,500	\$15,000	\$14,500	\$0.00	100.0%
2	PROJECT WRAP-UP AND REPORTING	\$0	\$0	\$0	\$0.00	n/a
3						
4						
5						
6						
7						
	TOTALS	\$29,500	\$15,000	\$14,500	\$0	100.0%

Submitted by: LIZ NICHOL

Title: OFFICE MANAGER

Signature:

Mile High Youth Corps
1801 Federal Blvd.
Denver, CO 80204

Invoice

Date	Invoice #
5/31/2013	2013-048

Rocky Mountain Field Institute

Terms	Due Date	
	5/31/2013	

Description	Amount
To bill for one week of work on 'Tim Barn Wetland Restoration' Summer of Service 2013 Project Dates: 5/28-5/31 Weekly Rate: \$6,000 Description of Work: Watershed restoration work on approximately one acre of subalpine wetland on Pikes Peak in the "Tim Barn" area. Soil decompaction and recontouring, collecting and planting transplants, seeding, laying erosion control matting.	6,000.00
Pre-project Site Visit	100.00
Total Contract Amount: \$6,100	
Please make check payable to 'Mile High Youth Corps' Attn: Jessica Masters 6740 E Colfax Ave. Denver, CO 80220 Tel 720-407-7281 ext 326	
	Total \$6,100.00
Pay online at: https://ipn.intuit.com/4nkh6jd8	Balance Due \$6,100.00

Mile High Youth Corps
1801 Federal Blvd.
Denver, CO 80204

Invoice

Date	Invoice #
5/31/2013	2013-048

Rocky Mountain Field Institute

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	Total \$6,100.00
Pay online at: https://ipn.intuit.com/4nkh6jd8	Balance Due \$6,100.00