



COLORADO

**Colorado Water
Conservation Board**

Department of Natural Resources

1313 Sherman Street, Room 718
Denver, CO 80203

April 12, 2017

Montezuma County
Attn: James Dietrich
Community Services
106 W. North Street
Cortez, CO 81321

RE: Notice to Proceed – WSRF Grant – **POGG1 2017-875** McElmo Rehabilitation Project in the
Southwest River Basin

Dear James,

This letter is to inform you that purchase order to assist in the above WSRF grant project has been approved. The original contract documents in the email serve as your official copies.

With the executed agreement, you are now able to proceed with the project and invoice the State of Colorado for costs incurred through April 30, 2018. Please provide the project name, contract/PO number, and basin when corresponding with or invoicing for your project along with back-up documentation of cost incurred for the WSRF portion of the grant according to the original scope of work. Upon receipt of your invoice(s), the State of Colorado will provide payment no later than 30 days after review and signed approval of the project manager.

Please refer to the WSRF Criteria & Guidelines for reporting requirements for the six month progress reports and final deliverable requirements in order to avoid a delay in payment. A 30-day advance notice is required in the event you are seeking an amendment to the term of the contract and will require an official letter of request to the CWCB project manager briefly describing the need for the extension, updated insurance certificates and updated schedule.

If you have any questions or concerns regarding this project, please contact Megan Holcomb, Project Manager at 303-866-3441 x3222 or at Megan.holcomb@state.co.us. When submitting invoices and progress reports, send to the PM and cc me at dori.vigil@state.co.us. You can contact me at 303-866-3441 ext. 3250 for additional invoicing and payment disbursement questions.

Thank you.

Sincerely,

//s//

Doriann Vigil

Program Assistant II

O 303-866-3441 ext. 3250

1313 Sherman Street, Rm. 719, Denver, CO 80203

Dori.vigil@state.co.us / cwcb.state.co.com

Attachments





STATE OF COLORADO
Department of Natural Resources

ORDER		** IMPORTANT **				
Number: POGG1 PDAA 201700000875		The order number and line number must appear on all invoices, packing slips, cartons and correspondence				
Date: 04/11/17						
Description: PDAA 2500 WSRF grant Montezuma County to fund McElmo Rehab		BILL TO COLORADO WATER BOARD CONSERVATION 1313 SHERMAN STREET, ROOM 718 DENVER, CO 80203				
Effective Date: 04/11/17 Expiration Date: 04/30/18						
BUYER		SHIP TO				
Buyer:		COLORADO WATER BOARD CONSERVATION				
Email:		1313 SHERMAN STREET, ROOM 718 DENVER, CO 80203				
VENDOR		SHIPPING INSTRUCTIONS				
MONTEZUMA COUNTY 106 WEST NORTH ST CORTEZ, CO 81321		Delivery/Install Date: F.O.B: FOB Dest, Freight Allowed				
Contact: .		VENDOR INSTRUCTIONS:				
Phone: .						
Line Item	Commodity/Item Code	UOM	QTY	Unit Cost	Total Cost	MSDS Req.
1	G1000		0	0.00	\$20,000.00	<input type="checkbox"/>
Description: PDAA2500 WSRF grant Montezuma County to fund McElmo Rehab						
Service From: 04/11/17 Service To: 04/30/18						
TERMS AND CONDITIONS						
https://www.colorado.gov/osc/purchase-order-terms-conditions						
DOCUMENT TOTAL = \$20,000.00						

Exhibit A

a. Statement of Work

WATER ACTIVITY NAME - Rehabilitate the Wooden Trough of the McElmo Creek Flume

GRANT RECIPIENT – Montezuma County

FUNDING SOURCE - Southwest Basin Roundtable

INTRODUCTION AND BACKGROUND

Provide a brief description of the project. (Please limit to **no more than 200 words**; this will be used to inform reviewers and the public about your proposal)

This water education project will implement the repairs to the wooden trough of the McElmo Creek Flume. This is the last of the 104 flumes originally built on the Montezuma Valley Irrigation system in the 1890s. The rehabilitation of this National Register property is necessary so that it can be properly interpreted to the visiting public at the new McElmo Flume stop on the Trail of the Ancients Scenic Byway on Highway 160. Wayside panels at this stop tell the story of the 19th and 20th century water history in Montezuma County. Without the construction of this irrigation system which allowed ranching and farming to prosper, Montezuma County and the City of Cortez would not have developed. This major highway across southern Colorado is traveled by hundreds of people daily, including the half million people who visit Mesa Verde National Park every year. This is the final phase of the rehabilitation of the McElmo Creek Flume, which is the primary focus of this new stop. This will allow the actual Flume to be viewed and its function understood by the public. This project is included in the SWBRT's IPP (#16-DM).

OBJECTIVES

List the objectives of the project

The objective of this project is to finish the rehabilitation of the Flume by repairing the wooden trough. The Flume has been out of use since 1992 and has deteriorated rapidly due to water and wind events. In 2016, the repairs to the foundation of the Flume were completed, and the new McElmo Flume interpretive stop on the Trail of the Ancients was also completed. Now the wooden trough must be repaired to insure the survival of the Flume, which is the focal point at this new stop on the Trail of the Ancients.

TASKS

Provide a detailed description of each task using the following format:

TASK 1 – General requirements, including crane support, scaffolding, temporary fencing.

The drawings for repairing the wooden trough of the Flume were completed and approved in the 2013 SHF assessment grant. Removal of framing bents is likely to require light crane support. Scaffolding platforms will be erected on the trestle structure, and temporary fencing will be used to prevent access to the site by the public.

TASK 2 - Numbering of staves, clamps, and framing bents, and removal for repair.

Temporary removal of the woodwork from the framing bents up is required for completion of substructure repairs. Numbering will allow for the location of parts and assemblies on annotated drawings to facilitate re-assembly of the trough.

TASK 3 - Repair of concrete and steel at the top of concrete-encased steel girders.

Deteriorated or defective concrete will be removed until sound material is reached. Exposed steel surfaces will be cleaned of loose concrete, rust, and other contaminants by sandblasting. Cleaned steel will be coated with a zinc rich primer. New concrete will be cast to restore cross-section of concrete-encased steel girders.

TASK 4 - Assessment/repair of top flange of steel girders where framing bents bear on them.

Weld new steel plates that support timber stringers. The surface condition of top flanges will be evaluated. Where corrosion is found, steel surface will be cleaned of rust and other contaminants by sandblasting. A three-layer protective coating will be applied to the cleaned steel. New steel plates have been inserted under the existing timber stringers. Steel plates will be centered on existing steel girts and welded according to the repair detail included in the construction drawings.

TASK 5 - Repair/replacement in-kind of deteriorated stringers and sills.

These timber elements exhibit similar deterioration conditions, including decay pockets along drying checks and below housings. Repair options include filling decay pockets with lumber dutchmen, splicing new timber into deteriorated members, and in-kind replacement.

TASK 6 - Repair of curved framing bents.

Framing bents are composed of elements having one of three repetitive profiles. Replacement pieces can be cut from patterns and brought to the site, where they can be used for dutchman repairs, splices, and replacement in kind. Repaired bents can be pre-assembled before returning them to the flume.

TASK 7 - Installation of salvaged staves.

These staves will be supplemented by additional material (profiled to match the original) to complete the half-pipe and engage steel rods and spreaders. Replacement staves can be profiled on a 4-sided moulder to match samples collected in the field.

TASK 8 - Supervision/construction management.

Ron Anthony, of Anthony & Associates, will be the Owner's Representative for this grant. He conducted the initial 2012 SHF-funded assessment of the Flume, and is a world-renowned expert in historic wood preservation.

REPORTING AND FINAL DELIVERABLE

Reporting: The applicant shall provide the CWCBA 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.

b. BUDGET

Provide a detailed budget by task including number of hours and rates for labor and unit costs for other direct costs (i.e. mileage, \$/unit of material for construction, etc.). A detailed and perfectly balanced budget that shows all costs is required for the State's contracting and purchase order processes. Sample budget tables are provided below. Please note that these budget tables are examples and will need to be adapted to fit each individual application. Tasks should correspond to the tasks described above.

The total cost for this project is \$241,472 (see below), of which \$181,104 has been provided by a grant from the State Historical Fund. This grant requires a match of \$60,368. Montezuma County is requesting \$20,000 from the WSRA as a part of this required match.

The budget below for the repair work of the wooden trough is based on published construction cost data, using the construction documents produced in 2013.

Total Costs				
	Labor	Other Direct Costs	Matching Funds (If Applicable)	Total Project Costs
Task 1 - General Requirements				\$19,030
Task 2 –Numbering of Elements & Removal for Repair				\$26,940
Task 3 – Repair of Concrete & Steel at top of Girders				\$ 4,190
Task 4 – Assessment/Repair of Top Flange of Steel Girders				\$ 3,300
Task 5 – Repair/Replace Deteriorated Stringers & Sills				\$58,860
Task 6 – Repair of Curved Framing Bents				\$43,800
Task 7 – Installation of Salvaged Staves				\$50,400
Task 8 – Supervision/ Construction Management				\$13,000
Contingency (7.5%) SHF Grant			\$181,104	\$21,952
Total Costs:				\$241,472

SCHEDULE

Provide a project schedule including key milestones for each task and the completion dates or time period from the Notice to Proceed (NTP). This dating method allows flexibility in the event of potential delays from the procurement process. Sample schedules are provided below. Please

Rehabilitate Wooden Trough of McElmo Creek Flume			
	Total Costs		
	WSRF	Matching Funds	Total Project Costs
Task 1 - General Requirements	?		\$19,030
Task 2 –Numbering of Elements & Removal for Repair	?		26,940
Task 3 – Repair of Concrete & Steel at top of Girders	?		4,190
Task 4 – Assessment/Repair of Top Flange Girders	?		3,300
Task 5 – Repair/Replace Deteriorated Stringers & Sills	?		58,860
Task 6 – Repair of Curved Framing Bents	?		43,800
Task 7 – Installation of Salvaged Staves	?		50,400
Task 8 - Supervision/Construction Management	?		13,000
Subtotals	20,000	221,104	\$219,520
Contingency (7.5%)			21,952
Totals			241,472

SCHEDULE

Task	Start Date	Finish Date
1 General Requirements	April 2017	End April 2017
2 Numbering of Elements & Removal for Repairs	May 2017	May 2017
3 Repair of Concrete & Steel	May 2017	June 2017
4 Assessment/Repair of Top Flanges	June 2017	July 2017
5 Repair/Replace Stringers & Sills	July 2017	September 2017
6 Repair Curved Framing Bents	September 2017	December 2017
7 Installation of Salvaged Staves	December 2017	April 2018