

## Statement of Work

**WATER ACTIVITY NAME - Trinidad/Purgatoire River Reach 4 Demonstration Project**

**GRANT RECIPIENT – Purgatoire River Water Conservancy District**

**FUNDING SOURCE - Colorado Water Conservation Board – Water Supply Reserve Account, Basin Fund Account**

### **INTRODUCTION AND BACKGROUND**

This project will improve the aquatic habitat and riparian areas of a stretch of the Purgatoire River that runs through downtown Trinidad, Colorado. It will provide a handicap accessible trail and fishing spots along the river, along with relevant signage.

The Purgatoire River Anglers chapter of Trout Unlimited received a grant from Embrace-A-Stream that funded an assessment of approximately 4 ¾ miles of the Purgatoire River from the Trinidad State Park lake dam through town. That assessment led to this project concept and preliminary design.

### **OBJECTIVES**

- **Final Design** – includes channel geomorphology identification of bank-full elevations throughout the project reach, final planning documents, and the 404 permit application.
- **Habitat Restoration** – provide velocity shelter, cover, and quality usable habitat for resident trout during the high flow summer months through the installation of in-channel habitat features.
- **Community Access** – construction of trails and fishing sites will make fishing handicapped accessible.
- **Education** – provide signage to increase community involvement and awareness.

### **TASKS**

Provide a detailed description of each task using the following format

#### **TASK 1 – Final Project Design and Permitting**

##### Description of Task

Final design includes channel geomorphology identification of bank-full elevations throughout the project reach, development of the final planning document, and the 404 permit application. The work includes coordination with Federal & State agencies as required to complete the permitting and regulatory process. A Scope of Work document will also be created for heavy equipment contracting purposes.

##### Method/Procedure

Pete Gallagher, of Fin-Up Consultants, created the Project Concept & Preliminary Design documents. He will create final design, apply for applicable permits, and carry final documents through the local approval process.

##### Deliverable

Final Design and Construction documents

404 Permits

Local Approvals

## **TASK 2 – Construction of Channel Improvements**

### Description of Task

Installation of vanes, boulder clusters and wood bank-full benches.

### Method/Procedure

Construction will be supervised by Pete Gallagher of Fin-Up Consultants. Heavy equipment and labor will be donated by local companies. Construction is expected to take two weeks.

### Deliverable

Improvements will be documented.

## **TASK 3 – Construction of Handicap Accessible Trail, Fishing Sites, & Signage**

### Description of Task

Community-build project constructing approximately 600 feet of handicap accessible trail, fishing sites located adjacent to aquatic habitat improvements, and appropriate signage.

### Method/Procedure

Construction will be supervised by Pete Gallagher of Fin-Up Consultants. This community-build project will be constructed by volunteers. The Purgatoire River Anglers (local Trout Unlimited Chapter) and the Trinidad Community Foundation will organize the community-build effort. Construction is expected to take less than a week. Post-project monitoring and final report will be prepared by Pete Gallagher.

### Deliverable

Improvements will be documented, and a final report delivered upon completion.

## **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.

# BUDGET

## TRINIDAD/PURGATOIRE RIVER - REACH 4 DEMONSTRATION PROJECT

	Source of Funds	Grant Request	Matching Funds (\$)	In-Kind (\$Value)	Total Funding (\$)
<b>CASH</b>					
	CWCB	\$ 75,000.00			\$ 75,000.00
	Purgatoire River Water Conservancy District		\$ 15,000.00		\$ 15,000.00
<b>IN-KIND</b>					
	Pioneer Natural Resources, USA, Inc.			\$ 54,400.00	\$ 54,400.00
	Trail Construction volunteer crew-Purgatoire River Anglers			\$ 14,580.00	
<b>TOTAL SOURCE OF FUNDS</b>		<b>\$ 75,000.00</b>	<b>\$ 15,000.00</b>	<b>\$ 68,980.00</b>	<b>\$ 144,400.00</b>
	Use of Funds	Grant Funds	Matching Funds	In-Kind	Total Funding (\$)
<b>Task 1</b>	<b>Final Design, Permitting</b>				
	Channel geomorphology - elevations		\$ 4,000.00		\$ 4,000.00
	Final Planning document		\$ 4,000.00		\$ 4,000.00
	404 Permit application, local approvals, locate		\$ 1,000.00		\$ 1,000.00
<b>Task 2</b>	<b>Construction of Channel Improvements</b>				\$ -
	Heavy Equipment, including operator			\$ 54,400.00	\$ 54,400.00
	Materials				\$ -
	Boulders (650 - 1 - 1 1/2 cubic yd ea)	\$ 37,000.00			\$ 37,000.00
	5 Cottonwood Trees (dead cottonwood is available in the project reach)				\$ -
	10 MR-1 Manta-Ray dead-man anchors rigged with 20ft x 1/4" stainless steel wire rope	\$ 1,750.00			\$ 1,750.00
	Supervision	\$ 10,050.00			\$ 10,050.00
<b>Task 3</b>	<b>Construction of Trail</b>				\$ -
	Trail Materials - Breeze Trail Gravel (\$12/lf x 600') (8 ft wide, 2 ft shoulders, 4" depth)	\$ 7,200.00			\$ 7,200.00
	Fencing - Split post & rail at HC fishing sites	\$ 1,500.00			\$ 1,500.00
	Volunteer Labor-trail building and habitat rehab following construction			\$ 14,580.00	\$ 14,580.00
	Supervision	\$ 3,000.00			\$ 3,000.00
	Signage & Installation (3 x 1500)	\$ 4,500.00			\$ 4,500.00
	Post project monitoring & final report	\$ 3,000.00			\$ 3,000.00
<b>Sub-Totals</b>		<b>\$ 68,000.00</b>	<b>\$ 9,000.00</b>	<b>\$ 68,980.00</b>	<b>\$ 145,980.00</b>
<b>Other Costs</b>					
	Project Admin & Accounting		\$ 1,500.00		\$ 1,500.00
	Other Direct Costs		\$ 4,333.00		\$ 4,333.00
	Contingency (10%)	\$ 6,800.00			\$ 6,800.00
<b>TOTALS</b>		<b>\$ 74,800.00</b>	<b>\$ 14,833.00</b>	<b>\$ 68,980.00</b>	<b>\$ 158,613.00</b>

## **TIMELINE**

	Mar'11	Apr'11	May'11	Jun'11	Jul'11	Aug'11	Sep'11	Oct'11	Nov'11
Grant Approval									
Notice to Proceed									
Complete Final Design									
Obtain Permits									
Channel Construction								***	
Trail Construction									
Signage									
Grand Opening									
Final Report									

\*\*\* Irrigation water is released from the lake beginning in April. Construction will begin after these flows have halted for the season.

## **PAYMENT**

Payment will be made based on actual expenditures and invoicing by the applicant. Invoices from any other entity (i.e. subcontractors) cannot be processed by the State. The request for payment must include a description of the work accomplished by major task, and estimate of the percent completion for individual tasks and the entire water activity in relation to the percentage of budget spent, identification of any major issues and proposed or implemented corrective actions. The last 5 percent of the entire water activity budget will be withheld until final project/water activity documentation is completed. All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and help promote the development of a common technical platform.