



Request for Proposals for– Survey, Hydraulic Analysis, and Conceptual Design for the Yakama Nation Eight Mile Creek Fish Barrier Project

Yakama Nation Upper Columbia Habitat Restoration Project

Introduction

The Yakama Nation Fisheries Program, Upper Columbia Habitat Restoration Project (UCHRP) is seeking services for a contract to assist in survey, analysis, conceptual development, and cost estimates for the Eight Mile Creek Fish Barrier removal project located in Chewuch River Basin. All work performed under this contract will be directed by the Yakama Nation's Designated Representative, Chris Butler. The information gathered by the successful bidder will aid regional fisheries managers. This RFP will require the winning bidder to provide an expense estimate for each Task outlined below.

Objective

The objective of this project is to conceptually design river restoration plans for the Eight Mile Creek Fish Barrier Removal project. Conducting and reporting on technical survey and analyses of the river system to support the creation of high quality restoration conceptual construction documents will be required. All restoration plans within the project area should be designed to collectively assist recovery goals for listed salmonids in the Upper Columbia system.

Scope of Work

Phase 1 - Site investigation

Task 1 –Existing data review

The winning bidder will collect and review any existing data pertinent to or for Eight Mile Creek. Information could be from Yakama Nation Fisheries, Bureau of Reclamation (BOR) or any other private or government entity that would aid future analysis and design. It is assumed these data may consist of fish habitat survey, stream flow data, stream temperature data, and historical air photos.

Task 2 – Geomorphic, Fish Habitat, and Fish Passage Barrier Survey

Two potential fish barriers are located in a 0.35 mile stretch of the Eight Mile Creek. A site survey will be required using a total station or survey grade GPS equipment. Survey will include channel cross sections along approximately one half mile of channel for existing conditions for hydraulic modeling. More detailed topographic survey is suggested in segments of the channel that are considered as a fish barrier. This is so the winning bidder can map barriers and analyze options to fix the passage barriers. Fish passage barriers and conceptual fixes will be analyzed with hydraulic analysis and WDFW fish passage requirements for Upper Columbia Steelhead, Upper Columbia Spring Chinook, and bull trout.

Downstream and Upstream of the passage barriers, a reconnaissance level field assessment of 12-14 miles of channel will be conducted to explore future fish habitat enhancement opportunities that would benefit anadromous fish species.

Field and survey data will be downloaded into and summarized in appropriate software (i.e. Excel, AutoCAD).

Task 3 – Fish Barriers Hydrology and Hydraulics

Peak stream flow frequencies will be estimated or obtained from previous BOR and/or USGS work efforts, available gage data or using published regression equations appropriate for the site.

Hydraulic conditions will be modeled using the U.S. Army Corp of Engineers one-dimensional HEC-RAS hydraulic model. Site survey will be used to build an existing conditions model. Manning's n values will be estimated from reference literature, professional experience and judgment. Existing conditions hydraulic analysis will be compared to WDFW published adult passage requirements for steelhead and Chinook salmon to assess barrier conditions.

Task 4 – Memorandum and Graphics Explaining Findings and Options

The winning bidder will prepare a technical report explaining the hydraulic model, barrier improvement options, pros/cons and planning level cost estimates. Conceptual graphics of remedies to provide fish passage at the barriers will be prepared and included with the report. The memo will include discussion and graphics on the reconnaissance level habitat opportunities found during field work survey. The winning bidder must work closely with Yakama Nation UCHRP staff through the analysis process.

Task 5 – Compilation of Data

The winning bidder will prepare in a neat and compiled manner and release all collected/produced information in both the paper and electronic format to the Yakama Nation upon completing Tasks 1 through 4.

Anticipated Schedule

The Yakama Nation is seeking to have this work completed promptly upon issuance of a Notice to Proceed. The following deliverables are determined by the survey time line identified below and will be determined by the Yakama Nation.

Survey is expected in the Spring and Fall of 2015

- Task 1 - 2 April – May, 2015
- Task 2 - 4 September – December 1, 2015

Limitations

The Yakama Nation reserves the right to accept or reject any and all of the proposals received as a result of this request, or to cancel in part or entirely this request if it is in the best interest of the Yakama Nation to do so. This request does not commit the Yakama Nation to pay any costs incurred in the preparation of a proposal.

Proposal Requirements:

Selected proposal will have and demonstrate the following:

- Summary of expenses for completing all five task identified above
- Demonstrate they own equipment needed to conduct current survey needs
- Demonstrate the ability to provide a report of the findings
- Description of field survey capabilities by in-house and local (Washington/Oregon based) design engineers
- The winning bidder's team will consist of a Geomorphologist, Hydrologist, and a Professional Engineer
- The winning bidder will work closely with the Yakama Nation and Methow USFS Fish Biologist
- Have experience with fish barriers and has completed at least 10 successful Large Woody Debris installation projects in the last 5 years.

Proposal Submittals:

Proposals will only be accepted at the Toppenish Office, and must be submitted by close of business (5:00 p.m.) February 10, 2015.

Proposals must be valid for 90 days thereafter the submitted closing date.

Submit the proposal and a list of requirements to:

Yakama Nation Fisheries
Attn: Jackie Olney
PO Box 151
Toppenish, WA 98948

Questions should be directed to:
Chris Butler
UCHRP Habitat Fisheries Biologist
509-996-5005 ext. 2
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