



FISHERIES RESOURCE MANAGEMENT

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Request for Proposals for– Upper Columbia Post Implementation Monitoring of Project Conditions for the Yakama Nation

Yakama Nation Upper Columbia Habitat Restoration Project

Introduction

The Yakama Nation Department of Fisheries, Upper Columbia Habitat Restoration Project (UCHRP) is seeking the services for a two year contract to assist in survey, analysis, and performance of projects implemented by the Upper Columbia Habitat Restoration Project (UCHRP) in the Wenatchee, Entiat and Methow Sub-basins. All work under this contract will be directed by one of the Yakama Nation's Designated Representatives, including Brandon Rogers, Chris Clemons, Jason Breidert, Matt Wilberding, Hans Smith, Jarred Johnson or Chris Butler. As built designs and construction reports are completed by engineers on site for each implemented project work element for the UCHRP. This document provides the "As-built conditions", and results of the initial post-construction monitoring. This RFP will require the winning bidder to provide an expense estimate for each of the Wenatchee, Entiat, and Methow Watersheds.

Objective

The objective of the monitoring will be to identify changes to fish habitat enhancement / restoration projects in the years following construction of projects identified by Yakama Nation UCHRP. These activities are intended to be simple repeatable activities that can be completed in a reasonable time frame and to provide easily interpreted outputs that record and characterize change in constructed features and physical habitat at each site over time.

Scope of Work

As-built reports for each site to be monitored will be provided to the winning bidder. The “project” assigned will be monitored to track and document its performance. Monitoring efforts at the site will focus on qualitative post-construction performance and an evolution of constructed features and associated physical habitats. The monitoring activities and the data collected include: repeat photographs from mapped locations, simple hand measurements and sketches of zones of erosion, scour and sediment deposition. Revegetation will be monitored and documented via photographs and sketches of zones of plant species complexity and vigor. Documentation will be a narrative description with representative photos and sketched graphics as needed to illustrate change.

Appendix A in the as-built reports will include a graphical layout for photo locations, actual wood counts, and provides a base map to facilitate field note taking.

Phase 1- Site Investigation

Task 1 - Hydrologic history

River flows are recorded at USGS gages within each water shed the work was performed. The USGS gages should be utilized for the following data collection. A summary of maximum flows between monitoring events should be summarized in each report. Flows at the time of the monitoring effort should be summarized with a comparison to mean daily discharge. Effort will be made to conduct monitoring at similar flows to provide comparable observation efficiencies and photos.

Task 2 - Photo Points

At each project site, locations have been identified that will visually document individual features, overall condition, and the associated physical habitat. Photo point locations are identified in the as-built reports. Photos will be taken at those approximate locations for each subsequent monitoring year.

Subsequent baseline monitoring efforts will include adjusting the photo locations and determining if a panoramic is preferred from the frontal view.

- Given the large areas, re-vegetated zone photo points can be less formal with photograph locations noted on project graphics during each monitoring event.

Notes should be taken of project feature, photo orientation and unique conditions or features the photographs are documenting. Efforts will be made to produce high resolution photos of similar magnification and framing to provide easy visual comparison of project changes for reports and presentations.

Task 3 -Field Sketches and Narrative

At each constructed feature, a field sketch and narrative of any changes from prior monitoring conditions will be completed. Photographs from prior monitoring events will be compared to field conditions to estimate changes. Sketches will be as detailed as possible based on observations and simple measurements and should include a plan and elevation sketch at each location. The as-built reports in Appendix A provide construction plans for use as base graphics for sketches of locations and extents of erosion, scour and deposition areas, accumulation of debris, adjacent river bed and bank conditions and their approximate dimensions relative to the constructed feature. Substrate sizes in scour and deposition zones will be estimated on the percent composition using the Wentworth scale metrics and noted on the sketch. Total number of woody material will be summarized to identify projects are gaining / losing material.

Task 4 - Action triggers

The projects are located within dynamic river environments. If monitoring activities detect undesirable performance or change to the habitat work, a range of actions or responses may be initiated based on professional opinion.

- No action needed.
- For minor change in function, a flag may be placed in the monitoring report to watch and respond at a later time if the condition worsens.
- Moderate changes may require a recommendation for intervention based on professional opinion and work by YN to remedy the issue.
- Serious changes that would influence human safety or infrastructure may require design and contractor with heavy equipment to remedy the issue.

Recommendations will be discussed with YN staff to determine a course of action. The findings, recommendation, and decision will be documented in each report year as it becomes necessary.

Task 5 - Revegetation areas

Identify deficiencies in the revegetation efforts for each site, which may include:

- plant species complexity,
- plant vigor, and
- invasive species

The degree of deficiency would be based upon percent of total area, or area of specific problem item. Noted deficiencies in vegetation re-establishment may prompt action to improve site recovery, reduce sediment mobilization and invasive species propagation.

Phase 2 – Reporting

Task 6 - Monitoring Report

Following completion of each round of in the field monitoring, a report will be developed to present the assimilated monitoring notes and photos. The report will include a description of methods including any variation to the monitoring plan and reasons for variation, site conditions at the time of monitoring, and a summary of preceding flow conditions characterized by the record from the USGS gage with a focus on peak events that may have occurred prior to monitoring. The report will include a brief section for each monitored feature including representative photographs from each photo point, narrative describing the conditions of the habitat feature. Making notes of any changes to the structures or physical habitats between monitoring years.

Monitoring Schedule

The as-built reports will be used for comparison for all future monitoring efforts and will allow for determination of the type and magnitude of change to features over time.

Successive rounds of monitoring will take place on a regular schedule and following any 5-year or greater recurrence flood event based on real time flows recorded at USGS gages within Wenatchee, Entiat, and Methow watersheds. Monitoring activities will occur at years 1, 2, 3, and 5. If minimal change is noted after year 3, or following one 5-year or greater event, the schedule may be relaxed. No formal monitoring is proposed beyond year 2018 at this time.

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 timeline for each year

- Phase 1 July - August
- Phase 2 September - December

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 task identified above in the bid sheet below for each watershed, for a single site. A site will consist of a single bank berried engineered log structure with forty logs, scour pool and the total disturbed area will be 4000 square feet.
- 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
- Have on staff (not subcontracted) a Geologist, Hydrologist, and a Professional Engineer.
- Completion of at least 5 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.) Wednesday June 1, 2016.

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

Submit the proposal and a list of completed successful projects with references to:

Yakama Nation Fisheries
Attn: Jackie Olney (Post Monitoring)
PO Box 151
Toppenish, WA 98948

FedEx Delivery:
401 Fort Rd
Toppenish, WA 98948
olnj@yakamafish-nsn.gov

Questions should be directed to:
Chris Butler
UCHRP Habitat Fisheries Biologist
509-996-5005 ext. 2
butlerc@yakamafish-nsn.gov

Post Implementation Proposal Form

Wenatchee Watershed per site location		Total Expense
Phase 1 - Site Investigation	<i>Task 1 - Hydrologic History</i>	
	<i>Task 2 - Photo Points</i>	
	<i>Task 3 - Field Sketches and Narrative</i>	
	<i>Task 4 - Action Triggers</i>	
	<i>Task 5 - Revegetation Areas</i>	
Phase 2 - Reporting	<i>Task 6 - Monitoring Report</i>	
Entiat Watershed per site location		
Phase 1 - Site Investigation	<i>Task 1 - Hydrologic History</i>	
	<i>Task 2 - Photo Points</i>	
	<i>Task 3 - Field Sketches and Narrative</i>	
	<i>Task 4 - Action Triggers</i>	
	<i>Task 5 - Revegetation Areas</i>	
Phase 2 - Reporting	<i>Task 6 - Monitoring Report</i>	
Methow Watershed per site location		
Phase 1 - Site Investigation	<i>Task 1 - Hydrologic History</i>	
	<i>Task 2 - Photo Points</i>	
	<i>Task 3 - Field Sketches and Narrative</i>	
	<i>Task 4 - Action Triggers</i>	
	<i>Task 5 - Revegetation Areas</i>	
Phase 2 - Reporting	<i>Task 6 - Monitoring Report</i>	