

REQUEST FOR PROPOSALS ENGINEERING DESIGN SERVICES

Lower Spring Creek Dam Fish Passage Feasibility & Design White Salmon River, Husum, WA

Response Deadline: June 22nd 2020, 5:00 pm



Yakama Nation Fisheries - Klickitat Field Office
P.O. Box 215, Klickitat, WA 98628
Phone: 509-281-1935 | E-mail: agrimm@ykfp.org

Anticipated Timeline

Proposal Submission Deadline:	June 22nd, 2020 – 5:00pm
Tentative Award Selection:	June 28, 2020
Project Initiation (estimate):	July 6, 2020
Survey	July/Aug 2020
Alternatives Analysis/Conceptual Design	September 2020
15% Design	November 2020
30% Design	February 2021
60% Designs completed	June 1, 2021

Please send questions in writing so responses can be shared with other interested parties.

Revisions, updates and answered questions will be posted to:

<https://yakamafish-nsn.gov/contact-us/open-rfqrfps>

Please check this site before submitting your proposal.

I - PROJECT OVERVIEW

The **YAKAMA NATION (YN)**, as project technical sponsor, is soliciting Request for Proposals for Engineering Design Services for fish passage design options at Lower Spring Creek Dam, in the White Salmon River Watershed, Husum, WA.

An earthen dam on private property blocks passage to spring-dominated, consistently flowing Spring Creek habitat. Spring Creek provides habitat for steelhead, chinook, and coho. Providing fish passage at this dam will open ~1.25 miles of anadromous fish habitat and ~3.0 miles of resident fish habitat. This project will address the most significant remaining fish passage barrier in the lower White Salmon River Basin.

The Lower Spring Creek Dam is located approximately 0.66 miles upstream of the confluence of Spring Creek and the White Salmon River (45.804600, -121.497963). Spring Creek enters the White Salmon River at approximately river mile 6.75 within a cluster of key tributaries for fish habitat in the White Salmon River Basin, Buck Creek (1.6 miles downstream of Spring Creek), and Rattlesnake Creek (0.95 miles above). Spring Creek has consistently cool water, high quality habitat and is one of four tributaries in the White Salmon River Basin that is used by anadromous fish. The dam on Spring Creek presents a 100% barrier to upstream fish passage.

The area around the Spring Creek confluence with the White Salmon River provides excellent fish habitat. This area is uniquely undeveloped and characterized by dense forest, with topography and tree canopies that shade the mainstem. This reach also has suitable substrate types for mainstem-spawning chinook. Juveniles in the mainstem likely rely on invertebrate food resources produced and flushed from Rattlesnake Creek (0.95 miles upstream) for food and also utilize the stable, spring dominated flows in Spring Creek as refuge during winter and spring high flows. All fish species would benefit from making accessible additional aquatic habitat in this area.

An earthen dam has blocked passage to Spring Creek since the dam was reported to have been constructed in 1908. Due to the presence of the dam, Spring Creek has been under represented in past assessment efforts compared to other tributary basins in the White Salmon Watershed. One example is the Bull Trout (*Salvelinus confluentus*) survey effort in 2010-2011. Since Bull Trout require colder temperature conditions than other species, Spring Creek could provide plausible habitat for historic and future populations, however the creek was never surveyed due to the presence of the dam. Although, the documented presence of cutthroat trout in Spring Creek suggests excellent cold water habitat.

Target Fish Populations the project addresses (Table 1).

Species	Life History Present (egg, juvenile, adult)	Current Population Trend (decline, stable, rising)	Endangered Species Act Coverage (Y/N)
Mid-Columbia Steelhead	Present below Spring Creek Dam	Stable/recolonizing	Yes
Lower Col. River (LCR) Fall Chinook (Bright)	Present below Spring Creek Dam	Stable/recolonizing	Yes
LCR Coho	Present below Spring Creek Dam	Stable/recolonizing	Yes
Resident Rainbow Trout	Present above Spring Creek Dam	Stable	No

Goal & Objectives:

The goal of this project is to evaluate options for fish passage and develop a preliminary design for fish passage and habitat enhancement above a private dam and County road crossing on Spring Creek.

The objective of this project is to develop a set of 60% preliminary designs within a 12 month timeframe. To accomplish this, we expect to complete the following tasks:

- Conduct surveys and onsite evaluations,
- Full development and evaluation of alternatives for providing fish passage at the dam
- Resolve passage at County road crossing
- Maintain irrigation outtake at upstream of the pond
- Possible site visits to similar project sites
- Work with landowners to select the preferred design alternative
- Prepare a Preliminary Design Report and 60% Design Planset
- Conduct multiple field visits and meetings with private landowner and interested stakeholders

Approach:

The design process will consist of site reconnaissance (watershed background: geology, hydrology, fisheries, land ownership, etc.), topographic survey: Real-time satellite assisted (RTK) survey, LiDAR, Structure for Motion (SfM), and a geomorphic assessment, Hydrology and Hydraulics (hydrology and HEC-RAS modeling), Draft Preliminary Designs (Alternatives, Planting Plan, Design Report, and Drawings), and the 60% Preliminary Design (Report and Drawings).

Potential Design Alternatives to be considered – all alternatives must maintain the ponded character of property:

- Fish passage at current dam (i.e. roughened channel)
- Partial dam removal/modification with fish passage channel
- Full dam removal, re-contour of valley bottom, and restoration of alluvial channel (as long as it can maintain some aspect of the ponded character)
- Additional approaches as informed by topographic survey and hydraulic analysis

All alternatives will evaluate and provide a road crossing design for Spring Creek Road crossing at the upstream end of the current pond and the outtake associated with property's water right.

Designs developed during this project will be consistent with WDFW guidelines, permitting requirements and Klickitat County road specifications

Limiting Factors the Project Expects to Address:

Habitat within the impoundment and above the dam is of high quality and provides consistent cool spring fed water (measured to be a very stable 10°C year round) for all fish species present. Identifying a feasible and agreeable method for providing fish access to reach this high quality habitat will provide approximately 1.25 miles of spawning and rearing habitat for anadromous species and approximately 3.0 miles for resident fish species. Fish passage, once reestablished, will increase habitat availability. Even under a drought declaration in 2015, this tributary was measured to be fully wetted with no locations of intermittency in a DNR stream typing evaluation. This is unique and demonstrates the importance of making this habitat accessible.

Project Sponsor:

Staff associated with the Yakama Nation Fisheries sponsored Klickitat Watershed Enhancement Project (KWEP) located in Klickitat, WA will oversee this RFP and support the design effort. KWEP works to restore, enhance and protect watershed function within the Klickitat, White Salmon, Wind River and Rock Creek basins. Work emphasizes restoration and protection of Endangered Species Act (ESA) listed anadromous fish. Restoration activities focus on improving stream processes by resolving watershed constraints and improving habitat conditions and water quality factors in support of species recovery.

Lower Spring Creek Dam Vicinity, Husum, WA

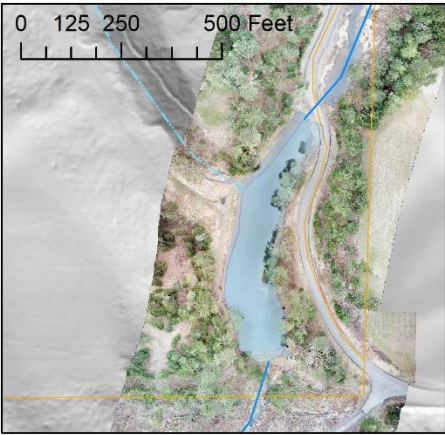
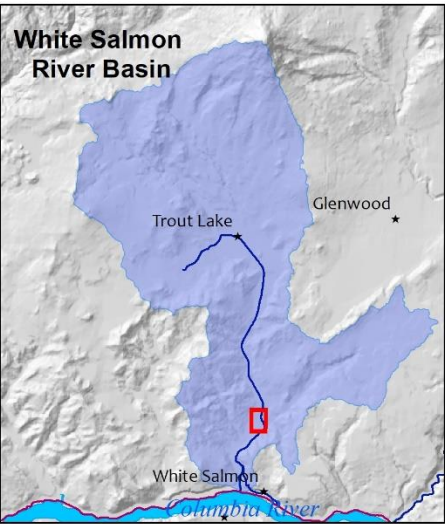
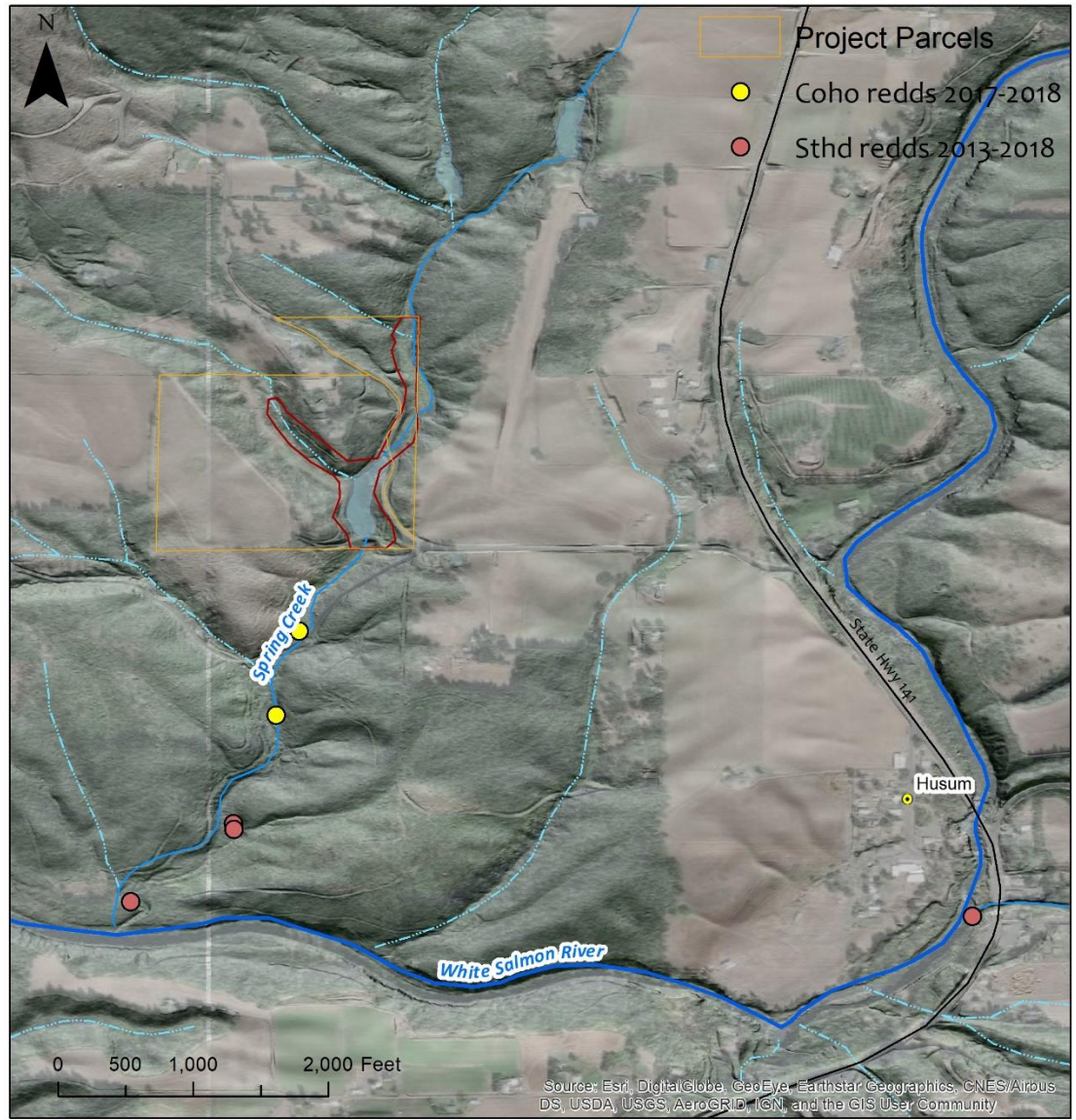


Figure 1: Vicinity map of the Lower Spring Creek Dam and Pond, Husum, WA.



Figure 2. Pond created by the Lower Spring Creek Dam (Left); Dam and outlet shown in the foreground (R).



Figure 3. Looking upstream from upper end of pond across Spring Creek Rd (L), looking downstream at earthen dam (R).



Figure 4: Spring Creek Road and Spring Creek culvert (L), close up of culvert outlet, upper end of pond and irrigation outtake (R).



Figure 5: Dam height with small breach (L); aerial showing dam crest of 125', breach in center & overflow on right (R).

III – SCOPE OF WORK

The cost estimate should reflect the following design components:

- A. Site Reconnaissance
 - a. Topographic Survey
 - b. Geomorphic Assessment
 - c. WDFW Barrier Evaluation at dam and County road crossing
- B. Hydrology & Hydraulics
 - a. Hydrology
 - b. Hec-RAS Modeling of the dam reach and County road crossing
- C. Project Outreach and Presentations to Landowners Within the Watershed (Existing Conditions, Preferred Alternative and 30-60% Design)
- D. Draft Preliminary Design & Concept Drawings
 - a. Alternatives Analysis and discussions with landowners; potential site visit/s to similar projects and/or Case Studies
 - b. Draft Preliminary Design Drawings
 - c. Draft Preliminary Design Report
 - d. Draft Cost Estimate
- E. 30% Design
- F. 60% Design
 - a. Revised Cost estimate
 - b. 60% basis design report

Yakama Nation Fisheries Staff (KWEP) will provide:

- Project Management and Coordination
- Communications with Landowners and Stakeholders and granting agency for project specifics and deliverables
- Personnel to support a topographic survey
- Aerial photography

IV – TIMING AND DURATION

We expect to award this contract in June 2020 and receive final deliverables by June 1, 2021. Qualified Contractor Proposals shall be received via email no later than 5:00 P.M. Pacific Daylight Time on June 22nd, 2020. Bids may be emailed to: Adrienne Grimm at agrimm@ykfp.org.

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V – MINIMUM QUALIFICATIONS

PROPOSAL SUBMITTAL CONTENT

To be considered responsive to this RFP, the Proposal shall include all items identified in Section III by the deadline specified in Section IV.

PROPOSAL COVER AND COVER LETTER

Clearly label the Proposal cover and the subject line in the cover letter with “Proposal for Spring Creek Dam Feasibility and Design.” The cover letter shall be limited to one page and shall identify the consultant name and contact person, their title, mailing address, email address, phone number, and the name of the proposed project manager.

CONSULTANT TEAM STRUCTURE

Provide the team structure, identifying any sub-consultants, including names of lead persons with titles and general project responsibilities, and the physical location of each lead person.

TEAM/PERSONNEL QUALIFICATIONS AND EXPERIENCE

The Proposal will be evaluated for the team and individual team member’s qualifications, general background, and experience in relation to the stated Scope of Work.

PROJECT APPROACH

The Proposal will be evaluated based on the approach and proposed solutions for designing the culvert replacements.

PAST PERFORMANCES/REFERENCES

References may be used to verify the accuracy of information provided in the Proposal. Provide three recent references who can be contacted concerning your firm’s/team’s RFP. In listing the references, include the name of the client, telephone number, e-mail address, contact person, and the specific work your firm did for the client. Also provide three recent references who may be contacted concerning the performance of your firm's/team’s proposed project manager(s). The Yakama Nation reserves the right to contact references other than those submitted by the respondent.

FEE SCHEDULE

The Proposal will be evaluated on the costs associated with the design work. Please include:

- A. Hourly rate by position classification and estimated hours per task
- B. Charges for equipment, printing, or other costs
- C. Direct expenses (if applicable)
- D. Total estimated project costs

VI - SELECTION PROCESS & EVALUATION CRITERIA

Each contractor shall provide references and/or other information related to their proposal that demonstrates their past performance. The owner (Yakama Nation) shall evaluate the qualifications of bidders. The owner shall have the sole discretion and responsibility for choosing the responsive and responsible contractor.

Bids will be evaluated based on the following ranking criteria:

- A. Fee Schedule (20 points)
- B. Relevant Firm Experience (30 points)
- C. Project Approach (20)
- D. Qualification of assigned staff (30)

VII – APPENDICIES

Appendix A: Yakama Nation Consultation Services Sub Contract will be required of the successful contractor. Please review prior to submitting your proposal.