



Contact Information

2024 Upper Columbia Regional Project Pre-Application

* Pre-applications due March 11, 2024 (COB)

*Complete applications due in PRISM April 19, 2024 (COB)

*Revised proposals due in PRISM May 24, 2024 (COB)

*Final revised applications due in PRISM June 24, 2024 (noon)

Project Title	Peshastin Creek RM 2.5
Sponsor	Cascade Fisheries
Primary Contact	Jason Lundgren
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Budget Request

Values MAY be duplicative and do not have to equal TOTAL anticipated budget in pre-application.

Anticipated Request - SRFB (standard round)	754,000
Anticipated Request - SRFB Riparian Funding	0
Anticipated Request - Targeted Investment	0
Anticipated Request - Tributary Committee	0
Anticipated Request - BPA Programmatic	0
Anticipated Other Funding	892,000
Anticipated TOTAL Budget	1,646,000

Other Funding Source(s)

2023 Trib and PRCC funding

Project Location

Briefly describe the location of the project

The project will occur on Peshastin Creek from RM 2.5 - 3.0

Latitude (decimal degrees)

47.53855

Longitude (decimal degrees)

-120.61811

Project subbasin

Wenatchee

Wenatchee Assessment Unit(s)

Lower Peshastin Creek

Does the proposed project span multiple assessment units?

No

Reach(es) Name

Peshastin Creek Lower 3

Identify the reach(es) priority/ reach ranking. Note: If the project involves work in multiple reaches, select "Multiple" and include details in the text box that will appear below. Please reference the Prioritization Web Map: <https://prioritization.ucsr.org/>.

Rank 2

Project Information

1. What are the project objectives? Objectives support and refine biological goals, breaking them down into small steps. Objectives are specific, quantifiable actions the project will complete to achieve the stated goal. Each objective should be SMART (Specific, Measurable, Achievable, Relevant, and Time-bound). Note: This exact question is included in the PRISM application. Example format: The project seeks to address [specify limiting factor(s)] for [limiting life stage(s)] by [specific actions proposed] to create an estimated [include specific target metrics, as described below] upon implementation in [estimated year].

Peshastin Creek and its watershed have experienced over a century of resource extraction (logging and mining), road building, agriculture, and rural residential development resulting in a creek that is channelized, straightened, and disconnected from the floodplain with severely degraded native fish habitat. This project aims to improve in-stream complexity with the addition of 15 large wood structures and mitigate climate change impacts via 2.5 acres of riparian restoration and 4.6 acres of increased floodplain connectivity. Benefits to fish include increased holding and rearing habitat, improved cover from predators, and cooler water temperatures.

2. What species will the project benefit?

Spring Chinook

Steelhead

3. Select the project's objectives and the associated tracking metrics

Instream Habitat (Includes Floodplain & Off-Channel Reconnection)

Riparian Habitat

Instream Habitat: Reporting Code

Total miles of instream habitat treated

Acres of channel/off-channel connected or added

Number of structures placed in channel

Pools created through channel structure placement

Riparian Habitat: Reporting Code

Total riparian acres treated

4. Does this project already exist in Salmon Recovery Portal or PRISM?

Yes

5. Has this project been submitted previously for funding through the SRFB and/or other process(es)?

Yes

Please explain which process(es) and how this proposal differs from the previous submission (e.g., different phase, modified scope, etc.)

This project is identical to PRISM #23-1266.

6. What category is the project?

Restoration

If applicable, what is the secondary project category?

N/A

Is the project eligible for Riparian Funding?

Yes

Design and Restoration Proposals

7. What project phase(s) are proposed for completion?

Final Design

Construction

8. Is your project within a completed (or soon-to-be completed) Reach Assessment or other type of assessment (e.g., Rapid Site Assessment, other)?

Lower Peshastin Creek Tributary and Reach Assessment, Yakama Nation, 2010

9. Which limiting factors does the project propose to address?

Cover - Wood

Off-Channel - Floodplain

Off-Channel - Side-Channels

Pool Quantity & Quality

Pools - Deep Pools

10. Which life stages will the proposed project address?

Adult Migration

Spawning and Incubation

Summer Rearing

Winter Rearing

11. Freshwater Benefits - Describe how your project will improve survival, capacity and/or distribution for target species at the reach scale?

By significantly increasing instream habitat complexity within Peshastin Creek we expect to improve adult holding and spawning and juvenile rearing. Increasing access to a network of forested floodplain channels may also increase juvenile growth and survival. These habitat types are rare extremely in Peshastin Creek due to the proximity of Highway 97, fruit orchards, and homes, to the creek.

12. Temporal Effect - Briefly describe how and to what extent the project would promote natural stream/watershed process consistent with the geomorphology of the stream?

Peshastin Creek watershed has experienced more than a century of resource extraction (logging and mining) and is fundamentally altered due to road building, agriculture, and rural-residential development along the shoreline and throughout the floodplain. Watershed and stream process at the reach scale are, and will continue to be, a challenge to restore. Our project seeks to emulate natural process by installing wood and connecting floodplain areas, encouraging greater dynamism, such that would be expected pre-settlement.

13. Temporal Effect - How long will it take for the project to achieve its intended response?

Less than or equal to 1 year

14. Temporal Effect - How long will the restoration action and its benefits persist?

10-50 years

15. Temporal Effect - What level and/or interval of maintenance is anticipated? What is the plan for any anticipated maintenance?

Project elements will be designed to be durable through a range of flows and therefore we are not expecting those elements to require maintenance. Riparian planting will be maintained for no less than three years.

16. Methods - Briefly describe the potential (for design) or proposed restoration methods and how they will achieve project objectives.

Cascade Fisheries is working with a renowned design firm who has decades of experience designing instream habitat projects throughout the Northwest, including in the Wenatchee River and Peshastin Creek watersheds. Our collaborative interdisciplinary design process will use standard design methods to ensure the project is designed appropriately to the hydrology, geomorphology, and infrastructure within the reach.

17. If the project is eligible and applying for Riparian Funding, does the project have in-stream components? If so, briefly describe those components, how they support riparian plant survival and/or natural regeneration, and why they are necessary for the success of the riparian habitat elements of the project.

I believe this project is eligible for riparian funding due to the significant amount of floodplain engagement that will result from excavation and instream structure placement. Floodplain engagement, coupled with robust riparian plantings should result in a much more rigorous riparian corridor throughout this reach of

Assessment Proposals

Protection Proposals

Monitoring Proposals

Project Risk and Economic Benefits

1. What is the landownership? Private

2. Have you secured landowner participation in or acceptance for this project? Yes

Please explain

The landowners initiated this project and want to get it built in 2025.

3. Describe any land owner requirements (e.g., design elements, right-of-ways, access agreements, liability waivers, etc.) and if/how they could affect the project

The landowners are requiring the removal of an old shed and the replacement of their access road. The existing road and shed will be removed to accommodate a new floodplain channel.

4. Will the project raise potential concerns for interest groups (e.g., recreational users) or the community at large (including upstream/ downstream/ adjacent landowners)?

We've done extensive outreach to the boating community about the lower Peshastin Creek. This has helped us understand what sections of Peshastin Creek are primarily used by this relatively small sector of the whitewater community and has also helped us understand boater needs for communication and signage. That's not to say that the boating community won't express concerns about this project. We've been working closely with WSDOT and feel that they're a supportive partners. We've only recently (Feb 24) reached out to neighboring property owners on the left bank and are awaiting their response.

5. Who will have the responsibility to manage and maintain the project? What is the responsibility of current or future landowners?

Cascade Fisheries will be responsible for implementation, riparian survival and implementation monitoring. The current landowners will remain the stewards of their land and this project.

6. Are other projects being proposed immediately upstream or downstream of worksite? Yes

7. Please describe the risk of failure associated with this project.

We expect the risk of failure to be low. Modern design and modeling techniques allow us to anticipate design flows, shear stress, buoyancy, etc. so we can design instream structures to be durable long-term. Riparian plantings are more vulnerable to "failure" from ungulate browse, wildfire and drought. As we develop a planting plan, we will take into account the changing climate and consider irrigation and exclusion fencing to increase survival. The biggest threats to this project not meeting its stated objectives are lack of funding, permitting delays, and sale of the property.

8. Is there any public outreach planned during and/or after implementation? Does the project build community support for salmon recovery efforts?

Yes. We began our outreach to neighboring landowners recently (Feb 2024) and the boating community last year. We've been coordinating with WSDOT and they have been supportive.

9. Does the project represent an opportunity for economic benefit? How much benefit does the project create for the dollars invested?

The main economic opportunity will be through the competitive bidding process. Local contractors will have the opportunity to bid and build this project keeping those dollars in Chelan County.

10. Describe any partnerships, their experience, and types of contributions supporting the project.

So far Cascade Fisheries has mainly worked with the Tributary Committee, Preist Rapids Coordinating Committee, Chelan Douglas Land Trust, WDFW, WSDOT, and the landowners. We will consider bringing in additional partners as the project advances.

Optional Section - Preparation for PRISM

The following questions are identical to the questions RCO requires in the PRISM application. If desired, sponsors can complete associated questions early and copy responses into PRISM during the "Complete Application" phase due on April 19, 2024.

Do you want to review and/or pre-populate PRISM questions?

No

Supporting Documents

[Upper Columbia Process Guide 2024](#)

[SRFB Manual 18 \(2024\)](#)

[RCO Application Resources \(2024\)](#)