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Nason Creek RM 12 Floo...

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*Project Title	Nason Creek RM 12 Floodplain Reconnection
*Sponsor	Chelan County Natural Resource Department
*Primary Contact	Mike Kane
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*Anticipated Request - SRFB	95200
*Anticipated Request - Tributary Committee	16800
*Anticipated Other Funding	0
*Anticipated TOTAL Budget	112000
*Other Funding Source(s)	N/A
*Briefly describe the location of the project	The project will occur in Nason Creek between RM 12.0 and 12.5. This is the reach extending upstream from the confined reach at Merritt to the straight reach adjacent to US 2.
*Latitude (decimal degrees)	474707.46
*Longitude (decimal degrees)	1205049.23
*Project subbasin	Wenatchee
*Wenatchee Assessment Unit(s)	Lower Nason Creek
*Reach(es) Name	Nason Creek Upper White Pine Reach (BOR 2009), Nason Creek Lower 12 and 11
1. *In one or two sentences, what do you propose to do?	This project will evaluate the mainstem channel and adjacent floodplain wetland complexes on river left and right (~RM 12.0-12.5) to identify and develop restoration actions that will improve in-stream conditions and reconnect the floodplain. We propose to complete all work necessary to evaluate the site, develop and analyze alternative restoration strategies and

prepare conceptual and preliminary designs for the preferred alternative, and anticipate hiring a contractor to complete tasks including on-site data collection (land survey, characterization of in-stream and wetland habitats, etc.), compilation of existing data, hydraulic modeling, opportunities and constraints analysis, and development of conceptual and preliminary engineering designs.

2. *What species will the project benefit?

Spring Chinook

Steelhead

Bull Trout

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

Design, Monitoring or Assessment

4. *Does this project or any of its phases (e.g., design) already exist in Salmon Recovery Portal or PRISM?

No

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

No

6. *What category is the project?

Design

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

Preliminary Design

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)?

Yes, Nason Creek Upper White Pine Reach Assessment

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

Cover - Wood

Off-Channel - Floodplain

Off-Channel - Side-Channels

Temperature - Rearing

10. *Which life stages will the proposed project address?

Summer Rearing

Winter Rearing

11. *Freshwater Benefits - To what extent will your project improve survival, capacity and/or distribution for target species at the project scale?

Upon implementation, the proposed project will improve in-stream complexity along ~0.5 stream miles by adding structure (large wood) and side channel habitats that are currently disconnected from the primary channel would be reconnected to provide rearing. We expect that the proposed project will enhance habitat capacity, improve fish survival, and broaden target species distribution within lower Nason Creek.

12. *Temporal Effect - Briefly describe how and to what extent the project would promote natural

The project seeks to promote natural channel processes and treat incision to the degree possible. The project is one in a series of projects that combine to restore natural processes in

stream/watershed process consistent with reach-scale geomorphology?

Lower Nason Creek. Benefits realized immediately after implementation.

13. Temporal Effect - How long will it take for the benefits of the project to be realized?

1-10 years

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

20-50 years

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

Monitoring will be performed to determine if project maintenance is necessary after project implementation, but little if any maintenance is anticipated. Access routes might require some weed management or fill planting if riparian objectives are not met.

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

We will explore a variety of potential implementation techniques including, selective grading at 2-3 floodplain channel confluences and along existing channels to provide seasonal or perennial flow and LWD structures to enhance mainstem conditions and side channel flow.

1. *What is the landownership?

Chelan County, Chelan Douglas Land Trust, WSDOT and private

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

Yes

*Please explain

The county and CDLT own the main project focus area and are onboard. The private landowner is at downstream end of project and has yet to be reached. WSDOT has been a willing landowner on past Nason Creek projects and will participate in the design process.

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

These will be identified as part of the design process.

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

There is a local beach at this location and a project could create a temporary closure of access during the construction phase.

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

This proposal supports the design phase of the proposed project. Management and maintenance of the project site may be needed, post-implementation but none is expected following this proposed phase. As to post-implementation, Chelan County NRD will monitor the project site for up to 5 years postconstruction and will be responsible for

any necessary management and maintenance during that time. Current landowners will participate in the design phase.

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

This proposal is for the design phase and there is little risk of failure for the tasks that will be undertaken. We also believe that there will be a low risk of failure for any potential actions developed during this phase and implemented during a subsequent phase. For the design phase, we will use licensed engineers from reputable companies with river restoration experience. This will assure a high safety factor and minimize potential for failure. In addition, methods of construction for this type of work are well-established at this point and there are many construction firms with stream restoration experience. This further minimizes potential for failure of any actions implemented under this project.

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

There will be public outreach to assure that local residents and landowners are aware of the project and its potential effects and benefits. Outreach will be structured such that it informs the public about the type of restoration actions being implemented, emphasizes the need for and benefits of stream restoration, and builds support for salmon recovery efforts.

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

The project will provide economic benefit during both this proposed design phase and the subsequent restoration phase. During the design phase, the project will support employment of staff from one or more consulting firms (prime contractor and potential subcontractors) and the Sponsor Agency. In addition, travel to and from the site needed for reconnaissance and data collection will financially support local businesses. The subsequent implementation phase will support additional contracted firms and their suppliers. Since construction crews are likely to be operating at the site for a longer period than the design team, local businesses stand to benefit even further from work completed during the implementation phase.

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

Sponsor Agency has extensive experience implementing projects such as the one proposed and a long and successful track record with the funding agencies to whom this proposal is directed. In addition, Sponsor has developed a successful working relationship with the CDLT and WSDOT on previous projects in Nason Creek and elsewhere.