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Upper Wenatchee RM 41....

Submission Date
March 1, 2021 14:44

*Project Title	Upper Wenatchee RM 41.4-43.0 Design
*Sponsor	Chelan County Natural Resource Department
*Primary Contact	Mike Kane
*E-Mail Address	kanenaturalresources@gmail.com
*Anticipated Request - SRFB	63750
*Anticipated Request - Tributary Committee	11250
*Anticipated Other Funding	0
*Anticipated TOTAL Budget	75000
*Other Funding Source(s)	N/A
*Briefly describe the location of the project	The project will occur in the Upper Wenatchee River between RM 41.4- 43.0 This includes a portion of Reach 4 and 3 on both sides of the BNSF RR crossing.
*Latitude (decimal degrees)	474304.91
*Longitude (decimal degrees)	1203945.79
*Project subbasin	Wenatchee
*Wenatchee Assessment Unit(s)	Wenatchee River-Beaver Creek
*Reach(es) Name	Wenatchee River Beaver 4 and 5, UPPER WENATCHEE RIVER STREAM CORRIDOR ASSESSMENT AND HABITAT RESTORATION STRATEGY Reach 3 and 4
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 (~RM 41.4-43.0) to identify and develop restoration actions that will improve in-stream conditions, reduce erosion and reconnect the floodplain. This

	effort will include a focus on engaging with 12-15 landowners as part of the concept development process to determine project opportunities. We propose to complete all work necessary to evaluate the site, develop and analyze alternative restoration strategies and prepare conceptual designs for the preferred alternative, and anticipate hiring a contractor to complete tasks including onsite 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 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?	Conceptual 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)?	UPPER WENATCHEE RIVER STREAM CORRIDOR ASSESSMENT AND HABITAT RESTORATION STRATEGY 2012
9. *Which limiting factors does the project propose to address?	Cover - Boulder, Off-Channel - Floodplain, Off-Channel - Side-Channels, Percent Fines/Embeddedness, Temperature - Rearing
10. *Which life stages will the proposed project address?	Fry, Summer Rearing, Winter Rearing
11. *Freshwater Benefits - To what extent will your project improve survival, capacity and/or distribution for target	Upon implementation, the proposed project will improve habitat along ~1.6 stream miles by improving access to left bank side channel habitats that are currently seasonally disconnected from the primary channel to provide rearing. We expect that the proposed

species at the project scale?	project will enhance habitat capacity, improve fish survival, and broaden target species distribution within the Upper Wenatchee River.
12. *Temporal Effect - Briefly describe how and to what extent the project would promote natural stream/watershed process consistent with reach-scale geomorphology?	The project is limited in its ability to promote natural channel processes and treat incision due to the existing infrastructure, including homes, roads and the BNSF RR crossing. Instead the project will seek to develop habitats that were cutoff or otherwise affected by infrastructure development and reduce erosion from river access points. The addition of LWD is also limited in this reach based on existing infrastructure and community recreation concerns.
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?	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. Access routes will likely require some weed management and possibly watering and other site maintenance.
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 to improve rearing habitat. Erosion control practices, like bioengineering will also be explored to address erosion at river access points.
1. *What is the landownership?	Ownership is predominately private with multiple parcels. Also BNSF ROW goes thru the middle and USFS owns small portion of left bank.
2. *Have you secured landowner participation in or acceptance for this project?	No
*Please explain	Due to the large number of private landowners, we have only been in communication with a limited number of community members along River Road. A portion of the funding would cover outreach to landowners to explain the project goals and secure interest in participation.
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	Previous engagement with River Road landowners has included a general lack of interest in seeing LWD projects in this reach due to the recreation. Also, a river access point at the BNSF crossing has ongoing weed and erosion issues and some landowners have enquired about eroding bank concerns. Past experience with BNSF has provided Chelan County with insight as to how to work with them on their ROW.
4. Will the project raise potential concerns for interest groups (e.g.,	See above. We would avoid the controversial issues by not promoting large wood in these reaches and instead engage with the local

recreational users) or the community at large (including upstream/ downstream/ adjacent landowners)?	community through an effort to improve access sustainability and find restoration techniques with less risk.
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.
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?	Public outreach is a key component of this project. 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, the Sponsor has developed a successful working relationship with members of the River Road community on a

downstream project in the Upper Wenatchee and with BNSF RR on other projects.