

Scott Boettcher

From: Scott Boettcher
Sent: Wednesday, July 8, 2020 3:17 PM
To: Josh Metcalf
Cc: Bobby Jackson
Subject: RE: 2021-2023 Small Projects Application

Thank you Josh. Your application has been received.
Scott

Scott Boettcher, Staff
Chehalis River Basin Flood Authority
360/480-6600
scottb@sbgh-partners.com

From: Josh Metcalf <Josh.Metcalf@lewiscountywa.gov>
Sent: Wednesday, July 8, 2020 3:13 PM
To: Scott Boettcher <scottb@sbgh-partners.com>
Cc: Bobby Jackson <Bobby.Jackson@lewiscountywa.gov>
Subject: 2021-2023 Small Projects Application

Scott,

Please find attached a completed application for the Boistfort Road Vulnerability Assessment Study for 2021-2023 Local Project Call. Let me know if you need any additional information to support this request. Thanks for your help with this.

Thanks,

Josh Metcalf, PE, MEM
Director, Lewis County Public Works
2025 Kresky Ave NE
Chehalis, WA 98532
(o) 360-740-2762
(m) 360-520-2924



Part I

2021-23 Local Projects Recruitment Process, Schedule

FORM

Instructions:

1. Please submit project requests (via this recruitment form) to scottb@sbgh-partners.com no later than 5:00 p.m., 7/08/2020.
2. Please submit one recruitment form for each project proposed, even past projects previously or partially funded.
3. Note: Sections III and IV [marked by "(**)"] will be scored for review/evaluation. Sections I, II, and V will not be scored.
4. Note: Section V is necessary to help the Chehalis River Basin Flood Authority, Office of Chehalis Basin and Chehalis Basin Board understand the scope and scale of Local Projects into the future.
5. See https://www.ezview.wa.gov/site/alias_1492/37642/2021-23-local-projects-recruitment-process.aspx for more information.

Section I General	
1. Date:	7/08/2020
2. Project Name and Project Phase/Stage:	Boistfort Road Infrastructure Vulnerability Assessment
3. Project Location -- Please provide location of project and latitude, longitude coordinates (e.g., 46.712222, -122.977811).	46°33'4.78"N 123° 8'4.23"W
4. Project Manager/Contact -- Please identify who will be responsible for overseeing, implementing the project on a day-to-day basis (i.e., name, organization, contact information).	Josh Metcalf, PE, MEM Lewis County Public Works, Director 2025 NE Kresky Ave Chehalis, WA, 98532 (O) 360-740-2762 (M) 360-239-9516 Josh.Metcalf@lewiscountywa.gov
5. Project Sponsor and Key Partners -- Please identify project sponsor and key partners who will assist in project delivery, implementation.	Josh Metcalf, PE, MEM Lewis County Public Works, Director 2025 NE Kresky Ave Chehalis, WA, 98532 (O) 360-740-2762 (M) 360-239-9516 Josh.Metcalf@lewiscountywa.gov

Section II Description, Timing and Cost	
6. Project Description -- Please describe the project, what is intended to be accomplished, flood hazard reduction benefits to be accrued to whom and when. Please identify what phase/stage of the project funding is sought (e.g., study phase/stage, planning phase/stage, design/engineering/permitting phase/stage, construction/implementation phase/stage). Please identify any local or state funding previously secured for this project.	<p>Residents in the Boistfort Valley report concern over the migration of the South Fork of the Chehalis River toward the Boistfort Valley Road, Lewis County PUD Power Poles, and Baw Faw Grange infrastructure. These resources are of substantial value to Valley residents and without redundancy (i.e., there is no backup or alternative if these resources/services are compromised).</p> <p>Lewis County Public Works is proposing a "Boistfort Road Infrastructure Vulnerability Assessment" that would:</p> <ol style="list-style-type: none"> 1. Model South Fork Chehalis River flow patterns (migration history, flow volumes/regimes, etc.). 2. Assess risk and threat to Boistfort Road and adjacent essential infrastructure.

	<p>3. Identify and evaluate alternative solutions, costs, and timing.</p> <p>4. Identify a preferred solution, cost, and timing.</p> <p>As part of the "Boistfort Road Infrastructure Vulnerability Assessment," Lewis County Public Works envisions a moderate community engagement process through all steps/stages of study.</p>
7. Project Timeline -- Please describe the timeline and phases/stages for completing the overall project and the timeline for completing the phase/stage to be funded by 2021-23 funding.	July 1, 2021 to July 1, 2022
8. Project Cost and Funding -- What is the cost of the overall project (or anticipated cost)? What is the cost of the phase/stage to be funded by 2021-23 funding? What are the on-going maintenance and operation requirements and costs? Who will cover on-going maintenance and operation requirements and costs?	\$50,000.
9. Other Funding -- Please describe other funding sources and partners that have already contributed (or could contribute in the future) to this project and for what phase/stage.	None.

Section III (**) Completion, Doability, Alternatives, and Impacts	
10. Project Completion -- Does the funding requested complete, substantially complete, or continue a project already started? If so, please explain.	No, this is a new project. The Flood Authority did provide funds to the Boistfort Valley Water System to ensure the system was ready for the next major flood. The water system's infrastructure (water lines) is located within the county road right of way on the river side.
11. Project Doable -- Can this project or the phase/stage for which funding is sought be completed by June 30, 2023? Please describe any circumstances with potential to impact the project's doability or timeline (e.g., permitting or regulatory unknowns, lack of availability of other funding resources, etc.). Please describe any advance coordination or vetting with agencies,	Yes.

tribes, other entities, etc. and the outcomes of that effort.	
12. Project Alternatives -- Please describe alternatives to the project that were considered (including doing nothing), and the rationale for selecting the project described, proposed here.	Project is a study to identify and evaluate the problem(s). No other alternatives were considered, other than to do nothing.
13. Project Impacts Avoided, Mitigated -- Please identify how project impacts will be avoided and mitigated, and if that mitigation will be accomplished by June 30, 2023?	N/a. This is a study to identify potential future projects.

Section IV (**) Benefits Stated and Quantified	
14. Emergency Response Benefits -- Please describe (and quantify) how this project enhances emergency response in a flood emergency (e.g., does it keep critical access roads and transportation facilities open/functional, does it enable easy movement of cattle, equipment and farm chemicals out of harm's way, is it part of a larger hazard mitigation plan, etc.).	Study is necessary to determine the threat/vulnerability to the road and utilities located across and along the roadway from the migrating South Fork Chehalis River. The road and utilities are all essential infrastructure, especially during times of emergency.
15. Essential Infrastructure Protection Benefits -- Please describe (and quantify) how this project protects essential infrastructure and the risks or consequences of not acting this funding cycle.	Same as #14.
16. Public Health, Safety and Welfare Benefits -- Please describe (and quantify) how this project protects public health, safety and welfare.	Same as #14 with the inclusion of the Baw faw Grange, an important community and future disaster asset.
17. Residential, Commercial and/or Agricultural Protection Benefits -- Please describe (and quantify) how this project protects residential communities, commercial and/or agricultural interests and benefits of acting (or consequences of not acting) this funding cycle. Consider factors like number of structures and people at risk, historic frequency of flood damage, magnitude of benefit for the cost, etc.	Same as #14.

18. Habitat Benefits – Please describe (and quantify) how this project benefits or improves existing or future habitat conditions.	To be determined.
19. Costs, Benefits, Impacts – Please describe (quantify) anticipated: (a) <u>Costs</u> of this phase/stage of the project if funded, and if not funded? This would include any costs (beyond direct cost of the project) that might be incurred or avoided as a result of the project being funded (or not funded) and when. (b) <u>Benefits</u> of this phase/stage of the project if funded and when those benefits would be realized? (c) <u>Impacts</u> of this phase/stage of the project if funded, if not funded, and when those impacts would occur.	Cost is \$50,000 to determine threat and vulnerability and to then schedule solutions commensurate with that threat and vulnerability. Study will lead to the what, when and at what scale. Benefits of this approach are to scale and time future public investments based on science and well vetted review.
20. Other Project Benefits -- Please describe (and quantify) any other project benefits not already discussed. This could include how this project compliments, leverages, or implements another project or planning process already underway.	Learning process through this vulnerability assessment will be transferable (i.e., methods) to other locations facing similar migration issues throughout the Basin.
21. Anything Else -- Please offer any additional information (e.g., links, photos, maps, video, drawings, drone, etc.) that would help to better understand the scope, timing, and benefits of this project.	Boistfort is an old and important community to the social fabric of the Chehalis Basin. As such determining and preparing for disaster resilience will ensure Boistfort remains the asset it is.

Section V Local Projects Beyond 2021-23	
22. Project Name and Project Phases/Stage:	
23. Project Location -- Please provide location of project and latitude, longitude coordinates (e.g., 46.712222, -122.977811).	
24. Project Sponsor and Key Partners -- Please identify who is sponsoring the project and key partners who will assist with project delivery,	

implementation.	
25. Project Description -- Please describe the project, what is intended to be accomplished, the flood hazard reduction benefits to be accrued and to who and when. Please identify what phase/stage of the project funding is sought (e.g., study, planning, design/engineering/permitting, construction/implementation).	
26. Costs -- Please describe (quantify) anticipated project costs.	
27. Benefits -- Please describe (quantify) anticipated project benefits.	
28. Impacts -- Please describe (quantify) anticipated project impacts.	

Study Area



South Fork Chehalis River Encroaching on Baw Faw Grange Well

