



**2015-17 Small Projects Recruitment Form**

**Chehalis River Basin Flood Relief**

**What are small projects?** -- In general, small projects are those projects that provide predominantly localized benefit, are capable of being completed within the funding cycle, are supported by the jurisdiction within which the project is proposed, and are vetted and advanced through the Chehalis River Basin Flood Authority's Chehalis Basin Projects Committee.

**Instructions:**

- a. Please submit project requests (via this form) to Scott Boettcher ([scottb@sbgh-partners.com](mailto:scottb@sbgh-partners.com)) no later than 5:00 p.m. September 10, 2014.
- b. Please submit individual project request forms for each project in your jurisdiction, even those projects previously or partially funded in the past.
- c. Note: Parts III and IV below [marked by "(\*\*)"] will be scored as part of the Chehalis Basin Projects Committee's review and evaluation. Part I and II will not be scored.

<b>Part I General</b>	
1. <b>Date:</b>	September 9, 2014
2. <b>Project Name:</b>	Flood Mitigation through Elevation of Structures
3. <b>Project Location</b> -- Please identify the location of the project as precisely as possible, preferable with latitude/longitude coordinates.	Thurston County Emergency Management is proposing to elevate three residential structures to mitigate flood impacts of the Chehalis River/Black River. The structure locations are 12925 HWY 12 SW (46.82611 -123.15552), 12615 HWY 12 SW (46.82518 -123.14898), and 12717 Hunter Rd SW (46.8423 - 123.15321). All three structures are repetitive loss residential structures.
4. <b>Project Contact</b> -- Please identify who will be responsible for	Andrew J Kinney, Emergency Management Coordinator 9521 Tilley Rd SW, Olympia WA 98512-1006 <a href="mailto:kinneya@co.thurston.wa.us">kinneya@co.thurston.wa.us</a> 360.867.2827 office 360.239.1282 Cell



<p>overseeing and managing the project (i.e., name, email, telephone number, etc.).</p>	
<p>5. <b>Lead Organization</b> -- Please identify the lead organization, agency, entity, etc. responsible for this project.</p>	<p>Thurston County Departments of Emergency Management and Resource Stewardship</p>
<p><b>Part II</b> <b>Description, Timing and Cost</b></p>	
<p>6. <b>Project Description</b> -- Please describe the project, what it is intended to accomplish, and the benefits that will accrue and to whom.</p>	<p>Presently, Thurston County does not allow development in floodplains or documented flood areas. This project proposed to elevate three residential structures two feet above the documented high water. This mitigation project will reduce property damage and potentially will save lives. The benefit is to the structure owners.</p>
<p>7. <b>Project Timeline</b> -- Please describe the overall timeline for completion of the project as well any interim stages or phases.</p>	<p>Project tasks are outlined below. It is estimated to take 3 to 4 months per structure. If all structures are elevated at the same time the entire project would take 3 to 4 months, if they are elevated in series to will take 9 to 12 months.</p> <p><b>Task 1:Project Preparation:</b></p> <p>Thurston County Surveying will establish temporary survey control and monumentation to be utilized in establishing base ground elevation, base flood elevation and current and finished floor height at two feet above BFE or documented high water. Thurston County staff will work with FEMA to establish the most appropriate BFE for the site. County staff will also research records to assist in documenting observed high water. Current County development code requires the structure’s lowest floor level to be elevated two feet (2’) above the BFE or documented high water whichever is greater.</p> <p><b>Task 2:Elevating the Structure:</b></p> <p>The County will utilize a contractor to complete the elevation of the residential structure including:</p> <ul style="list-style-type: none"> <li>• Replacement of joists and beams (if required);</li> </ul>



	<ul style="list-style-type: none"> <li>• Jacking up structure;</li> <li>• Putting concrete blocks on top of old foundation;</li> <li>• Replacement of pads and posts;</li> <li>• Reconnecting plumbing, sewer, and phone;</li> </ul> <p style="text-align: center;">Building stairs front and back.</p> <p><b>Task 3:Permits and Inspections:</b></p> <p>Permits and inspections include, but may not be limited to: Building Permit; Plan Review; Plumbing; Mechanical; Planning Review; Health Department Inspection; and Development Review.</p>
<p>8. <b>Project Cost and Funding --</b> What is the cost of this project? What are the on-going maintenance and operation requirements? Is it clear who will be responsible for on-going maintenance and operations costs?</p>	<p>The cost to elevate each structure is estimated at \$45,000 to \$50,000 depending if additional replacement of joists and beams are required. Total project cost is estimated between \$135,000 and \$150,000. No on-going maintenance costs, owners will maintain.</p>
<p>9. <b>Other Funding --</b> Please explain the extent to which other funding sources or funding partners are available.</p>	<p>There is no additional funding source for this project. I have submitted DOE FCAAP grants to elevate a residential structure on the Deschutes River and also submitted to FEMA under HMPG to elevate 2 other residential on the Deschutes.</p>
<p><b>Part III (**)</b> <b>Completion and Doability by June 30, 2017</b></p>	
<p>10. <b>Project Completion --</b> Does the funding requested complete (or substantially complete) a project that has already been</p>	<p>This project would remove the last three, FEMA documented, repetitive loss structures from the Lower Chehalis River Watershed in Thurston County. This project also would assist in flood mitigation approaches outlined in both the Thurston County Flood Mitigation Plan and the Natural Hazards Mitigation Plan for the Thurston Region by continuing to remove structures out of the floodplains. Presently Thurston County has 15 structures with reported repetitive losses due to flooding and this project will reduce it to 12. Thurston County is working with FEMA HMPG and DOE FCAAP grants to elevate three other residential structures in the Deschutes River floodplain. This project does complement another project submitted by Thurston County titled "Black River Gate Road/Hunter Road</p>



<p>started? If so, please explain.</p>	<p>Floodplain Connectivity”.</p>
<p>11. <b>Project Doable</b> -- Can this project or the stage/phase for which funding is sought be completed by June 30, 2017?</p>	<p>Yes, as outlined in Part II No. 7 this project can be completed in as little as 3 to 12 months, depending on staging.</p>
<p>12. <b>Project Impacts</b> -- Please identify how any project impacts will be mitigated and if that mitigation will be accomplished by June 30, 2017?</p>	<p>There should be no project impacts that need mitigating. The project is to elevate three residential structures two feet above documented high water to mitigate flood impacts on the structures.</p>
<p><b>Part IV (**)</b> <b>Benefits Stated and Quantified</b></p>	
<p>13. <b>Emergency Response</b> -- Please explain how this project enhances our ability to respond in a flood emergency (e.g., does it keep critical access roads, transportation facilities, etc. open and functional.)</p>	<p>Completion of this project will potentially free flood response resources to be utilized in other areas because they will not have to respond to these three locations.</p>
<p>14. <b>Essential Infrastructure Protection</b> -- Please explain how this project protects essential infrastructure (as</p>	<p>This project does not protect essential infrastructure or facilities. This project would elevate three residential structures out of the floodplain.</p>



<p>well the risks or consequences of not acting this funding cycle).</p>	
<p>15. <b>Public Health, Safety and Welfare</b> -- Please explain how this project protects public health, safety and welfare.</p>	<p>Project would elevate three residential structures out of the floodplain, this would free flood response resources to be utilized in other locations potentially saving lives and reducing property damage at other locations.</p>
<p>16. <b>Residential, Commercial and/or Agricultural Protection</b> -- Please explain how this project protects residential, commercial and/or agricultural interests and communities and the benefits of acting (or consequences of not acting) this funding cycle. Consider factors like number of structures at risk, number of people at risk, historic frequency of flood damage, magnitude of benefit to be gained for the cost, etc.).</p>	<p>The project is a structure elevation project, elevate three residential structures two feet higher than the documented high water level of flooding.</p>
<p>17. <b>Other Project Impacts</b> -- Please</p>	<p>This project does complement another project submitted by Thurston County titled "Black River Gate Road/Hunter Road Floodplain Connectivity". Flooding in the Hunter Road area</p>

explain how this project impacts or is potentially impacted by another project.

is complicated by floodwater flowing down the Black River, floodwaters flowing up the Black River from the rivers confluence with the Chehalis River and floodwaters from the Chehalis River flowing across the floodplain and connecting with the Black River. The Connectivity project goals include flood level reduction and stabilization. This complements our project goal of elevating the structures out of the floodplain. Flood levels should remain static and not slowly creep up over time.

18. **Anything Else --** Please feel free to offer any additional information (e.g., photos, maps, drawings, etc.) that would be helpful to better understand the scope, timeline and benefits of this project.



12925 HWY 12 resident is about 100 yards off the photo in the direction of the arrow. Flood photo is from December 2007. Red dashed line is HWY 12 SW and blue line is Anderson Road SW.



12615 HWY 12 SW is located about 300 yards to the right of the arrow. Flood photo from December 2007. Red dashed line is HWY 12 SW and blue line is Moon Road SW.