

## Scott Boettcher

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**From:** Scott Boettcher  
**Sent:** Tuesday, July 3, 2018 7:50 AM  
**To:** 'Brandon Rakes'  
**Cc:** Samantha Thayer; colronjanaverill@comcast.net  
**Subject:** RE: Flood Relief

Thank you Brandon. Your proposal has been rec'd on time.  
Scott

Scott Boettcher, Staff  
Chehalis River Basin Flood Authority  
360/480-6600  
[scottb@sbgh-partners.com](mailto:scottb@sbgh-partners.com)

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**From:** Brandon Rakes <brakes@ci.chehalis.wa.us>  
**Sent:** Monday, July 2, 2018 11:38 AM  
**To:** Scott Boettcher <scottb@sbgh-partners.com>  
**Cc:** Samantha Thayer <sthayer@ci.chehalis.wa.us>  
**Subject:** Flood Relief

Hello, Scott  
Here is the project application for the Chehalis-Centralia Airport Levee Ditch Rehabilitation.  
I am not sure if this will be eligible or not, but thank you for your consideration.  
I sent you a separate email with a link to a drop box for a video of the levee ditch inspection.  
Have a great day,

Brandon Rakes  
Airport Operations Coordinator  
Chehalis-Centralia Airport  
360-748-1230



**2019-21 Local Projects Recruitment Form  
Chehalis Basin Local Flood Relief**

**A. What are local flood relief projects?** -- In general, local projects provide predominantly localized, quantifiable 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 a public entity like a City, County, Conservation District, Port, etc. Local projects are additionally envisioned as helping with local flood relief (reducing flood damage and impacts), not adverse to fish, wildlife, or habitat, and (where possible) providers of multiple, quantifiable benefits (per Part IV below).

**B. What kinds of local flood relief projects are likely to be logical funding candidates for 2019-21?**

- Projects that complete an effort previously funded/started.
- Projects that advance improved emergency response.
- Projects that advance improved public infrastructure protection.
- Projects that advance improvements in local or community flood hazard reduction, including local flood proofing projects (e.g., elevations, buy-outs, foundation venting, etc.).
- Projects that advance Conservation District initiated flood hazard reduction (e.g., farm pads, evacuation routes, bank erosion/bank stabilization, etc.)
- Projects that demonstrate innovation (e.g., thinking beyond traditional bank stabilization techniques in favor of natural system designs), partnerships, cost-sharing/leveraging resources, multiple benefits, public engagement and community planning, and proactive vetting with agencies and tribes.
- Projects that demonstrate informed decision-making through hydraulic analysis/understanding.
- Projects that demonstrate early planning involvement, information exchange with regulatory agencies.
- Projects typically not in excess of \$3M for the stage/phase being funded.

**C. Are there projects that would not be good candidates?**

- Projects that seek to utilize State Capitol Budget dollars for uses not typically allowed (e.g., maintenance and repair work, cost-sharing under select circumstances, etc.).
- Projects likely to increase potential for flood damage upstream or downstream.
- Projects with unmitigable adverse environmental impacts, significant uncertainty regarding potential environmental impacts, or significant concerns about obtaining regulatory approval.
- Projects not sponsored by a public entity.
- Projects not located in the Chehalis Basin.
- Projects that do not show quantifiable benefit.

**Instructions:**

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- a. Please submit project requests (via this form) to [scotttb@sbgh-partners.com](mailto:scotttb@sbgh-partners.com) no later than 5:00 p.m., 7/03/2018.
- b. Please submit one request form for each project proposed, even past projects previously or partially funded.
- c. Note: Parts III and IV [marked by "(\*\*)"] will be scored for review/evaluation. Parts I, II, and V will not be scored.
- d. See Appendix A for overview of 2019-21 Local Projects Recruitment Process (and schedule), or [https://www.ezview.wa.gov/site/alias\\_1492/37282/2019-21-Local-Projects-Recruitment-Process.aspx](https://www.ezview.wa.gov/site/alias_1492/37282/2019-21-Local-Projects-Recruitment-Process.aspx).

<b>47*Part I General</b>	
1. <b>Date:</b>	6/27/18
2. <b>Project Name:</b>	Chehalis-Centralia Airport Levee Ditch Rehabilitation
3. <b>Project Location</b> -- Please identify location of the project as precisely as possible, including providing decimal degree latitude/longitude coordinates.	Lat 46.685809 Long 122.981249 This location is the levee around the Chehalis-Centralia Airport.
4. <b>Project Contact</b> -- Please identify who will be responsible for overseeing and managing the project (i.e., name, email, telephone number, etc.).	Brandon Rakes-Airport Operations Coordinator
5. <b>Sponsor</b> -- Please identify the sponsor, lead organization, primary entity, etc. responsible for this project. Please identify key partners responsible for assisting in delivery or implementation of project.	City of Chehalis, Chehalis-Centralia Airport

<b>Part II Description, Timing, and Cost</b>	
6. <b>Project Description</b> -- Please describe the project, what is intended to be accomplished, the benefits to be accrued (flood hazard reduction and otherwise) and to whom. Please also identify what phase/stage of the project funding is being sought for (e.g., planning, preliminary engineering, final design and permitting, construction, etc.).	There is a jurisdictional ditch that is around the inside perimeter of the airport levee that requires rehabilitation. As the ditch fills with vegetation it reduces its effectiveness to drain which may compromise the integrity of the levee. The funding being sought would be for the action of rehabilitation. There is no engineering, design or permitting required.
7. <b>Project Timeline</b> -- Please describe the timeline and phases for completion of the overall project and describe the timeline for completion of the phase to be funded by 19-21 funding.	The project could begin very soon after funding is received. Summer would be ideal for rehabilitation since the water level in the ditch will be at its lowest seasonal point then. The project is not estimated to take longer than one month to complete.
8. <b>Project Cost and Funding</b> -- What is the cost of the overall project (or anticipated cost)? What is the cost of the phase to be funded by 19-21 funding? What are the on-going maintenance and operation requirements and costs? Is it clear who will be responsible for covering on-going maintenance and operation costs?	We anticipate a maximum project cost of no more than \$170,000 for rehabilitation. With proper maintenance performed by our staff we would not require a future rehabilitation.
9. <b>Other Funding</b> -- Please explain the extent to which other funding sources, funding partners are available for this phase and any other phase of the project. 41+ 10.	The airport may be able to provide matching funds for this project if required.

<b>Part III (**)</b> <b>Completion, Doability, Alternatives, and Impacts</b>	
11. <b>Project Completion</b> -- Does the funding requested complete, substantially complete, or continue a project already started? If so, please explain.	The funding requested would complete the required project.
12. <b>Project Doable</b> -- Can this project or the stage/phase for which funding is sought be completed by June 30, 2021? 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 cost-share funding resources, etc.). Please describe any advance coordination or vetting with agencies, tribes, other entities, etc. and the outcomes of that effort.	The project could be completed by June 30, 2021.
13. <b>Project Alternatives</b> -- Please describe alternatives to the project that were considered (including doing nothing), and the rationale for selecting the project described, proposed here.	Doing nothing only increases the amount of vegetation in the ditch along the levee. This further reduces the effectiveness of the ditch. This is also inviting for wildlife that will pose a threat to aircraft (such as birds), beaver and nutria that will certainly compromise the integrity of the levee.
14. <b>Project Impacts Avoided, Mitigated</b> -- Please identify how project impacts will be avoided and mitigated, and if that mitigation will be accomplished by June 30, 2021?	Project impacts will be avoided by selecting summer as the season to perform the cleanout. Water levels will be low reducing the amount of water in the ditch and improving the ease of cleanout.

<b>Part IV (**)</b> <b>Benefits Stated and Quantified</b>	
15. <b>Emergency Response Benefits</b> -- 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.).	The benefit of rehabilitating this ditch is that it helps protect not only the airport, but also commercial facilities and associated infrastructure. This includes roads, utilities, and the airport runway itself. All of these are essential during a flood emergency event.
16. <b>Essential Infrastructure Protection Benefits</b> -- Please describe (and quantify) how this project protects essential infrastructure and the risks or consequences of not acting this funding cycle.	The benefit of rehabilitating this ditch is that it helps protect not only the airport, but also commercial facilities and associated infrastructure. This includes roads, utilities, and the airport runway itself. All of these are essential during a flood emergency event. If this is not rehabilitated and the levee fails there will be millions of dollars in infrastructure damaged and emergency services that the airport can provide will be compromised.

<p>17. <b>Public Health, Safety and Welfare Benefits --</b> Please describe (and quantify) how this project protects public health, safety, and welfare.</p>	<p>This project will help protect public health, safety and welfare by not allowing wildlife habitat to develop around an airport where it should not exist. It will keep aircraft and their passengers safe by not creating a wildlife hazard (primarily bird habitat with reeds and standing water). It will ensure that the integrity of the levee is not compromised by wildlife that could be attracted to the area. This will in turn protect the infrastructure and people located behind the levee.</p>
<p>18. <b>Residential, Commercial and/or Agricultural Protection Benefits --</b> 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.</p>	<p>This project will help protect millions of dollars of infrastructure within the City of Chehalis along the I-5 corridor by helping rehabilitate the ditch that drains water from behind the levee that protects this area. If this project were not undertaken and the levee were to fail it would be catastrophic. Historically this area has been flooded several times and it is likely that at some point it will flood again.</p>
<p>19. <b>Habitat Benefits –</b> Please describe (and quantify) how this project benefits or improves existing or future habitat conditions.</p>	<p>This project will improve the habitat by not creating an attractant for birds and other wildlife in an area that is not safe for them or mankind.</p>
<p>20. <b>Costs and Benefits –</b> Project funders (and the public they represent) value cost-effective, sound funding decisions. To that end, please describe (and quantify) in general terms benefits gained for funds requested and frequency, time-scale benefits will be realized. Please also describe (and quantify):</p> <ol style="list-style-type: none"> <li>Funds requested.</li> <li>Costs avoided if funded (and on what frequency, time-scale).</li> <li>Costs incurred if funded (and on what frequency, time-scale).</li> <li>Benefits gained if funded (and on what frequency, time-scale).</li> <li>Impacts incurred if funded (and on what frequency, time-scale).</li> <li>Impacts and implications of not funding (and on what frequency, time-scale).</li> </ol> <p>Guidance Note (1): For this question, it will be helpful to think in terms of what will be the dollar value of assets protected, dollar value of impacts avoided, dollar value of monies retained or recouped, etc. for the amount of public monies invested.</p> <p>Guidance Note (2): Part V is intended to help project reviewers concisely summarize, compare funding requests. Answers here (and in related questions on this form) should be consistent with Part V.</p>	<p>We are requesting \$170,000 for the levee ditch rehabilitation project. This is a one-time request. This will save us countless dollars by helping avoid a levee failure due to wildlife and vegetative damage. The area protected is integral in helping protect the airport, commercial facilities and associated infrastructure behind the airport levee including roads and utilities.</p>

<p>21. <b>Other Project Benefits</b> -- 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.</p>	<p>Another project benefit is that it eliminates a wildlife attractant around an airport. This will keep aircraft and people safe from bird strikes or other wildlife accidents. A bird strike is when an aircraft hits a bird in flight. This is a very dangerous situation for all involved.</p>
<p>22. <b>Anything Else</b> -- Please offer any additional information (e.g., photos, maps, video, drawings, drone, etc.) that would help to better understand the scope, timing, and benefits of this project.</p>	<p>Please see video of the levee ditch in its current state.</p>

<p style="text-align: center;"><b>Part V</b> <b>Summary of Benefits, Impacts, Costs</b></p>			
	<p>22. <b>Benefits</b> – Please summarize, tally project economic and non-economic benefits as described.</p>	<p>23. <b>Impacts</b> -- Please summarize, tally project economic and non-economic impacts as described.</p>	<p>24. <b>Costs</b> -- Please summarize, tally project economic and non-economic costs as described.</p>
<p><b>Quantify</b></p>	<p>Millions of dollars of infrastructure protected</p>	<p>Relatively inexpensive cost for a project that will help protect the levee and its infrastructure</p>	<p>\$170,000</p>
<p><b>Describe</b></p>	<p>Protects the levee, the airport, the commercial areas along I-5, and the associated roads, utilities and other infrastructure</p>	<p>This project will clear out vegetation and sediment that has accumulated over years</p>	<p>One-time project cost</p>

## Appendix A

<b>Process/Schedule Overview</b> (current as of 6-12-2018)	
June 12, 2018	<ul style="list-style-type: none"> <li>• Post and distribute local projects recruitment request.</li> <li>• Allow three weeks for project proposals/submittals (i.e., due no later than 5:00 p.m., Tuesday, July 3, 2018).</li> <li>• Due to Scott Boettcher, <a href="mailto:scottb@sbgh-partners.com">scottb@sbgh-partners.com</a>.</li> </ul>
July 3, 2018	<ul style="list-style-type: none"> <li>• Receive proposals/submittals.</li> </ul>
July 5, 2018 (or July 12, 2018)	<ul style="list-style-type: none"> <li>• Update Chehalis Basin Board on numbers received, types of projects received, distribution, dollar value, etc.</li> </ul>
July 19, 2018 (or August 16, 2018)	<ul style="list-style-type: none"> <li>• Update Flood Authority on numbers received, types of projects received, distribution, dollar value, etc.</li> </ul>
September 20, 2018	<ul style="list-style-type: none"> <li>• Update Flood Authority on status of Projects Committee's effort to review, rank, discuss with Tribes, discuss with agencies, sort and rank, etc.</li> <li>• Review/discuss PRELIMINARY DRAFT ranked and prioritized list.</li> </ul>
October 4, 2018	<ul style="list-style-type: none"> <li>• Update Chehalis Basin Board on status of Projects Committee's effort to review, rank, discuss with Tribes, discuss with agencies, sort, and rank, etc.</li> <li>• Review/discuss DRAFT ranked and prioritized list.</li> </ul>
October 18, 2018 (SPECIAL MEETING)	<ul style="list-style-type: none"> <li>• Seek Flood Authority approval of FINAL ranked and prioritized list.</li> </ul>
November 8, 2018	<ul style="list-style-type: none"> <li>• Seek Chehalis Basin Board approval of FINAL ranked and prioritized list.</li> </ul>
June 2018 through November 2018	<ul style="list-style-type: none"> <li>• Work with agency, OCB, and CBB technical staff on refining and finalizing recruitment instrument, scoring criteria, scoring instrument, categorization, and ranking, developing draft and final lists, etc.</li> </ul>

### Legend:

Chehalis Basin Board	Flood Authority
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(5) City of Chehalis -- Airport Levee Ditch Rehabilitation  
7-03-2018

Link -- [https://www.dropbox.com/sh/fhnjydnkcgebyvk/AABs\\_vlaTmWxOAWIJBz3Tqvxa?dl=0](https://www.dropbox.com/sh/fhnjydnkcgebyvk/AABs_vlaTmWxOAWIJBz3Tqvxa?dl=0)

The screenshot shows a web browser window displaying a Dropbox folder titled "Levee Ditch Inspection". The browser's address bar shows the URL: <https://www.dropbox.com/home/Levee%20Ditch%20Inspection>. The folder contains five video files, all named "DJI\_0001.MOV" through "DJI\_0005.MOV", each with a thumbnail image of a ditch. The files were all modified on 6/29/2018 and are shared with 2 members. On the right side of the folder view, there is a "Share folder" button and a list of sharing options: "Upload files", "Upload folder", "New folder", and "Show deleted files".

Name	Modified	Members	...
DJI_0001.MOV	6/29/2018 2:55 pm by Brandon Rakes	2 members	...
DJI_0002.MOV	6/29/2018 3:04 pm by Brandon Rakes	2 members	...
DJI_0003.MOV	6/29/2018 3:13 pm by Brandon Rakes	2 members	...
DJI_0004.MOV	6/29/2018 3:14 pm by Brandon Rakes	2 members	...
DJI_0005.MOV	6/29/2018 3:14 pm by Brandon Rakes	2 members	...