



Updated 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 updated project requests (via this form) to Scott Boettcher (scottb@sbgh-partners.com) no later than 5:00 p.m. June 11, 2015.
- b. In particular, we are interested in updates to Project Timeline (#7), Project Cost and Funding (#8), and Completion and Doability (Part III); however notable updates to other sections of the form are welcome too.
- c. Projects being asked for scope and budget updates can be found here - [https://www.ezview.wa.gov/Portals/_1492/images/2015-17%20Small%20Projects%20--%2010152014\(2\)\(1\).pdf](https://www.ezview.wa.gov/Portals/_1492/images/2015-17%20Small%20Projects%20--%2010152014(2)(1).pdf).

| Part I General | |
|---|--|
| 1. Date: | June 10, 2015 |
| 2. Project Name: | China Creek Flood and Habitat Mitigation Project |
| 3. Project Location -- Please identify the location of the project as precisely as possible, preferable with latitude/longitude coordinates. | The approximate center of the project is located at: 46.726967 -122.934597 |
| 4. Project Contact -- Please identify who will be responsible for overseeing and managing the project (i.e., name, email, telephone number, etc.). | Kahle Jennings Public Works Director, City of Centralia (360)330-7512 kjennings@cityofcentralia.com |
| 5. Lead Organization -- Please identify the lead organization, agency, entity, etc. responsible for this project. | City of Centralia. The Chehalis Tribe is a partner in the project. |



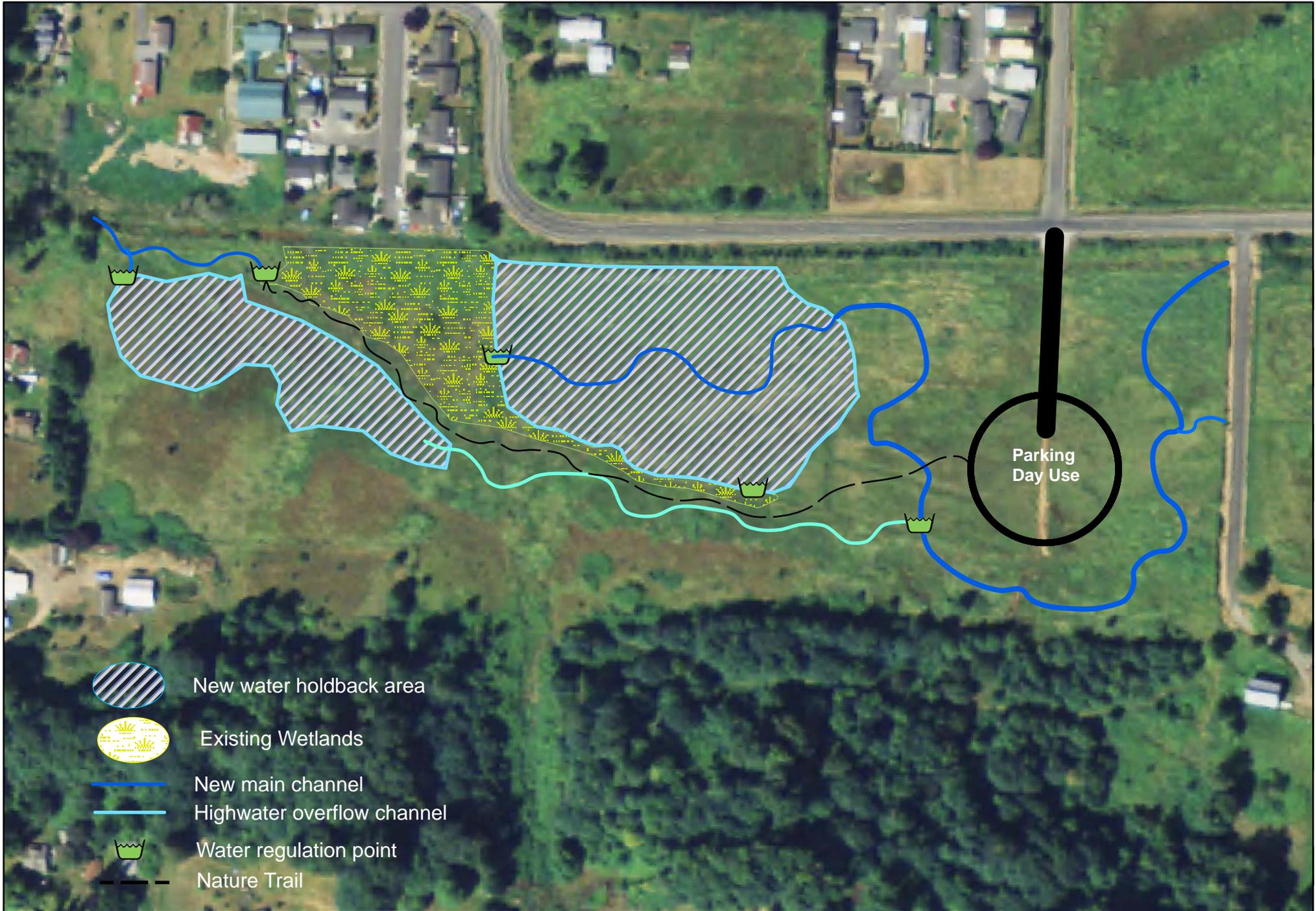
| Part II | |
|---|---|
| Description, Timing and Cost | |
| <p>6. Project Description -- Please describe the project, what it is intended to accomplish, and the benefits that will accrue and to whom.</p> | <p>Centralia is applying for funds to construct upstream storage on China Creek modeled after the Johnson Creek Brookside Wetland project in Portland, OR. It is intended to use excavated naturally shaped landforms, stream channel friction and natural in stream fish habitat features to slow down and store runoff from the upper China Creek watershed during high flow runoff events. Delaying the peak flow runoff from the upper basin (approximately 70% of the watershed, generating 40% of the runoff flow) will allow China Creek to transport runoff from the urbanized middle basin (approximately 15% of watershed, generating 50% of runoff flow) reducing the frequency and/or intensity of flooding downtown.</p> <p>The flood benefits of the project include reduced/eliminated flooding of downtown businesses, preserving access along main travel corridors for emergency vehicles and the public, and improved emergency response time during flood events. The project will also recreate the China Creek ecosystem within the project boundary. The beneficiaries are local business owners, the public and the public employees who serve the public during flood events, fish and wildlife.</p> <p>The need for additional work will be evaluated once the effects of this project can be measured.</p> |
| <p>7. Project Timeline -- Please describe the overall timeline for completion of the project as well any interim stages or phases.</p> | <p>Property purchased in June 2014; wetlands delineation: October 2014 – May 2015; hydraulic modeling, design and permitting: October 2014- December 2015; Archeological survey: July/August 2015; SEPA December 2015; construction May-September 2016; native planting September-November 2016.</p> |
| <p>8. Project Cost and Funding -- 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 pre-design construction cost estimate for this project is \$900,000.</p> <p>This project is being designed to incorporate characteristics of natural stream channels and natural water storage features so there should be minimal on-going maintenance and operation requirements for the flood mitigation components of the project. The flood mitigation M&O requirements that do exist will be performed by the City of Centralia, owner of the project area.</p> |

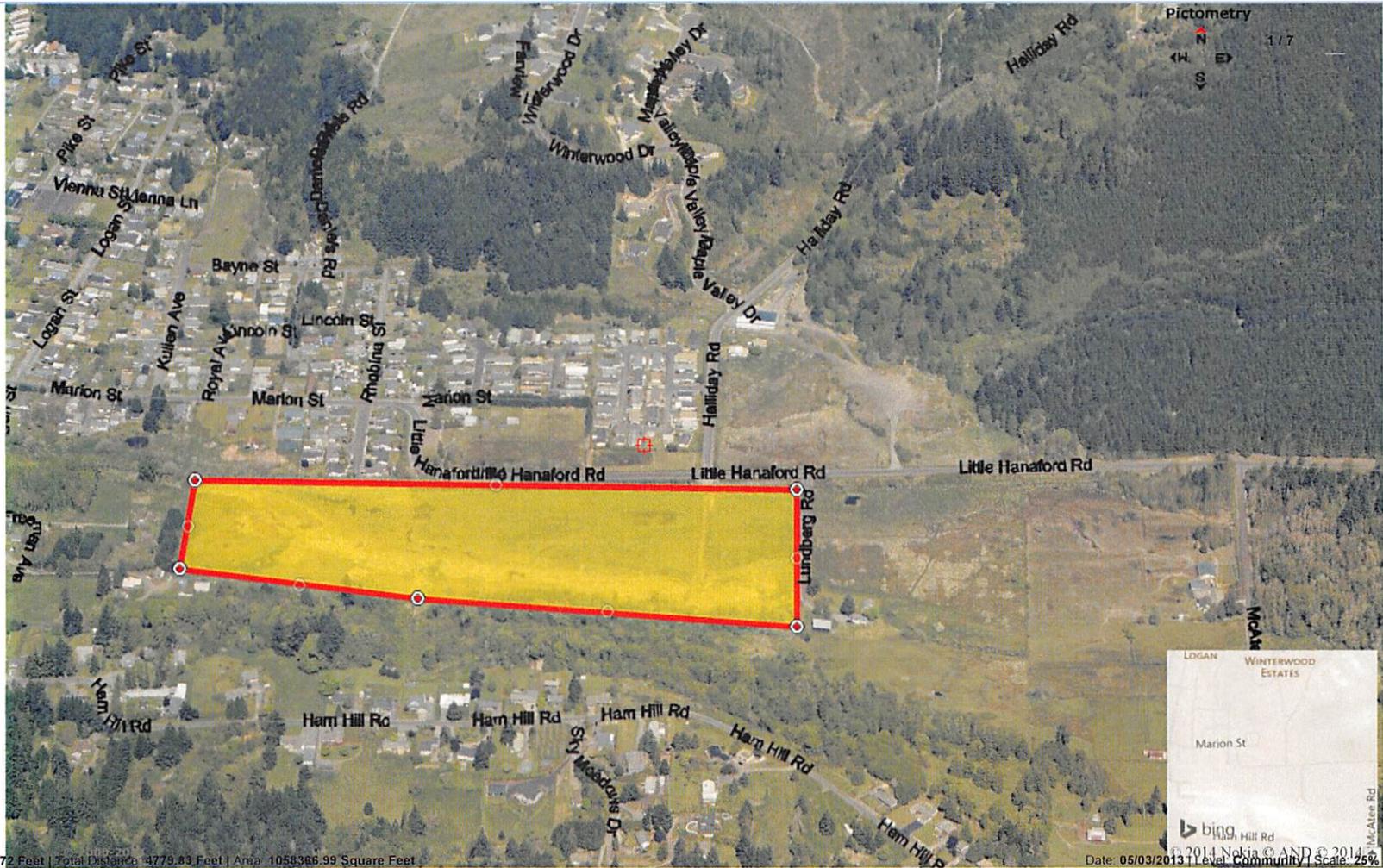


| | |
|--|---|
| | Habitat re-created by the project will be monitored for effectiveness and stability by the City and its partners. Habitat enhancements will be incorporated over time as necessary. |
| 9. Other Funding -- Please explain the extent to which other funding sources or funding partners are available. | City of Centralia purchased the property and will pay for wetland delineation, hydraulic modeling, design and permitting. Chehalis Tribe will assist by completing the archeological assessment and with native planting. |
| Part III Completion and Doability by June 30, 2017 | |
| 10. Project Completion -- Does the funding requested complete (or substantially complete) a project that has already been started? If so, please explain. | Yes, this request is for funds to actually construct the project. The City has already purchased the property, contracted out wetlands evaluated and is funding hydraulic modeling and project design. The Chehalis Tribe has been providing consultation on modeling/design and has agreed to perform the cultural survey the archeology of the project area. |
| 11. Project Doable -- Can this project or the stage/phase for which funding is sought be completed by June 30, 2017? | Yes. Current plans are to complete design, permitting, SEPA and all other pre-construction activities by December 31, 2015. The project will be bid in early 2016 and construction is expected to be done by the end of 2016. Permits may affect this schedule but construction will be completed before September 30, 2017. |
| 12. Project Impacts -- Please identify how any project impacts will be mitigated and if that mitigation will be accomplished by June 30, 2017? | <p>This project is being designed to provide a net benefit to both fish and water quality. China Creek was channelized decades ago to flow in a ditch along the south side of Little Hanaford Road. Restoring China Creek to something approximating its original meandering channel through property purchased in 2014 by the City for this project, along with restoration of fish friendly channel characteristics will benefit fish and water quality.</p> <p>Riparian planting will eventually grow to mature size stabilizing the banks, providing shade to cool the water and a source of nutrients for the aquatic ecosystem. The temporary storage of high flows will help extend flows in China Creek farther into the summer when it typically goes dry.</p> <p>There should be no negative impacts to water quality or fish habitat from this project. Construction will occur during the dry season and China Creek won't be connected until the channel enhancements have been completed.</p> |
| Part IV Benefits Stated and Quantified | |
| 13. Emergency Response -- Please explain how this project enhances our ability to respond in | This project will help reduce flooding in downtown Centralia. China Creek flooding closes several main emergency travel |



| | |
|--|---|
| <p>a flood emergency (e.g., does it keep critical access roads, transportation facilities, etc. open and functional.)</p> | <p>routes in downtown Centralia including Main Street, Pearl and Tower, Maple, Silver, Iron and Rock Streets. Pearl Street and Tower Avenue are Highway 507 through Centralia.</p> |
| <p>14. Essential Infrastructure Protection -- Please explain how this project protects essential infrastructure (as well the risks or consequences of not acting this funding cycle).</p> | <p>This project will help protect transportation infrastructure along China Creek. Reducing the frequency and magnitude of flooding will reduce the scouring risk to the 20 bridges crossing China Creek through downtown Centralia. It will also help protect the recently restored section of China Creek flowing through the "Knoll" on the Centralia College campus.</p> |
| <p>15. Public Health, Safety and Welfare -- Please explain how this project protects public health, safety and welfare.</p> | <p>Public Health, Safety and Welfare depends upon access. By preventing or reducing flooding on main traffic corridors emergency response vehicles will have access, or quicker access to visitors, students, residents and areas of town needing assistance.</p> |
| <p>16. Residential, Commercial and/or Agricultural Protection -- 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>China Creek flooding has direct and indirect impacts in the community. Direct impacts include flooding of businesses and homes adjacent to the creek channel. Indirect impacts include loss of business revenue, disruption of travel and disruption of emergency services during the times streets are impassible. China Creek flooding has historically been observed when 2.5 inches of rain falls during a 24-hour period. This occurs at a frequency of once every 3.5 years. This project will reduce the magnitude of flooding and may reduce the frequency. Once the effects have been measured project enhancements may be scheduled.</p> |
| <p>17. Other Project Impacts -- Please explain how this project impacts or is potentially impacted by another project.</p> | <p>Although this project is not designed to prevent flooding when the Chehalis River floods and flows under Interstate 5 into the lower China Creek basin, when completed this project will reduce the flow from China Creek contributing to that flooding.</p> |
| <p>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.</p> | <p>The conceptual design and location maps remain the same.</p> |





Line Distance: 710.72 Feet | Total Distance: 4779.83 Feet | Area: 1058366.99 Square Feet

Date: 05/03/2013 | Level: Community | Scale: 25%