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Salish Sea Ecosystem Conference

2018 Salish Sea Ecosystem Conference (Seattle, Wash.)

Apr 4th, 4:45 PM - 5:00 PM

Collaborative solutions to riparian protection and restoration in the Chimacum Creek watershed

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Collaborative solutions to Riparian Protection and Restoration in the Chimacum Creek Watershed

Salish Sea Ecosystem Recovery Conference April 4, 2018

Sarah Doyle, Stewardship Coordinator, North Olympic Salmon Coalition



Community Stewardship,
Collaborative Restoration























Increased Community Awareness

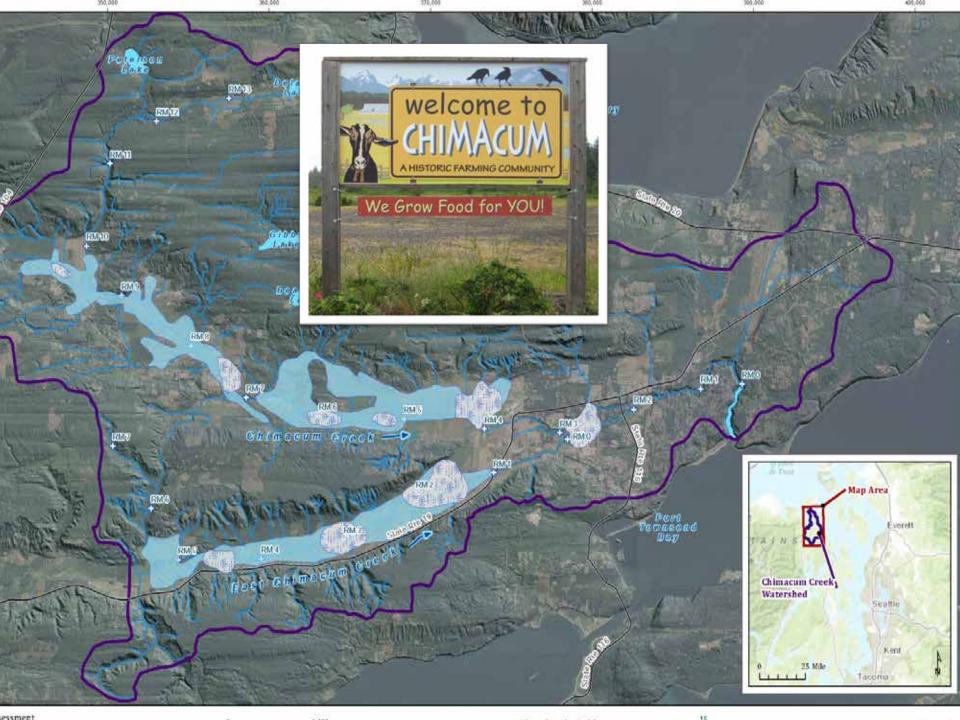


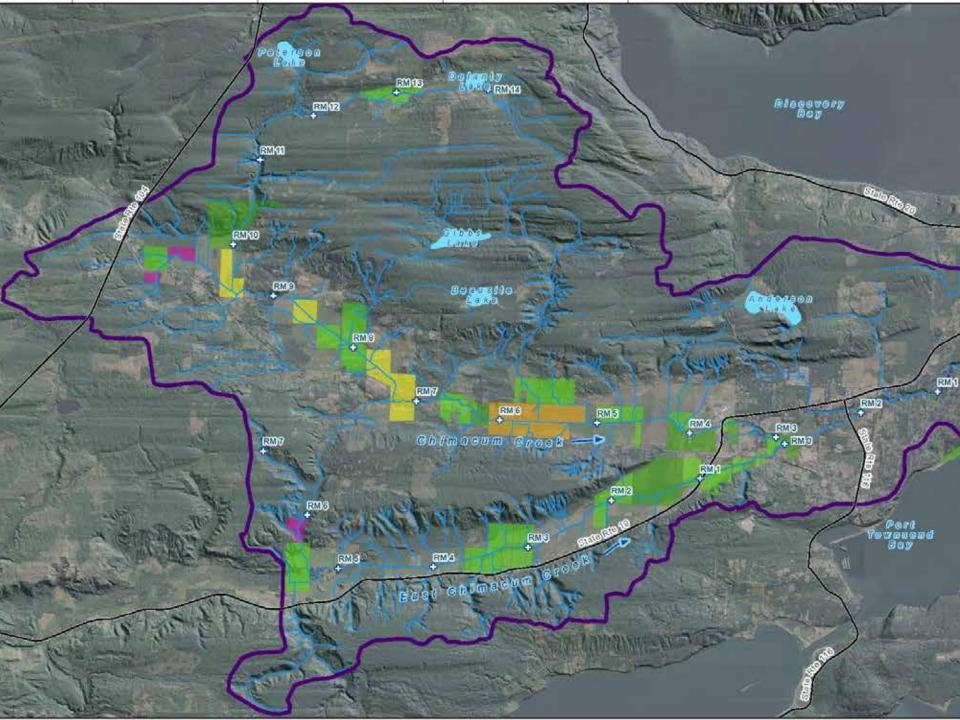


---- → Access to Funding













CHIMACUM CREEK RESTORATION AND PROTECTION STRATEGY



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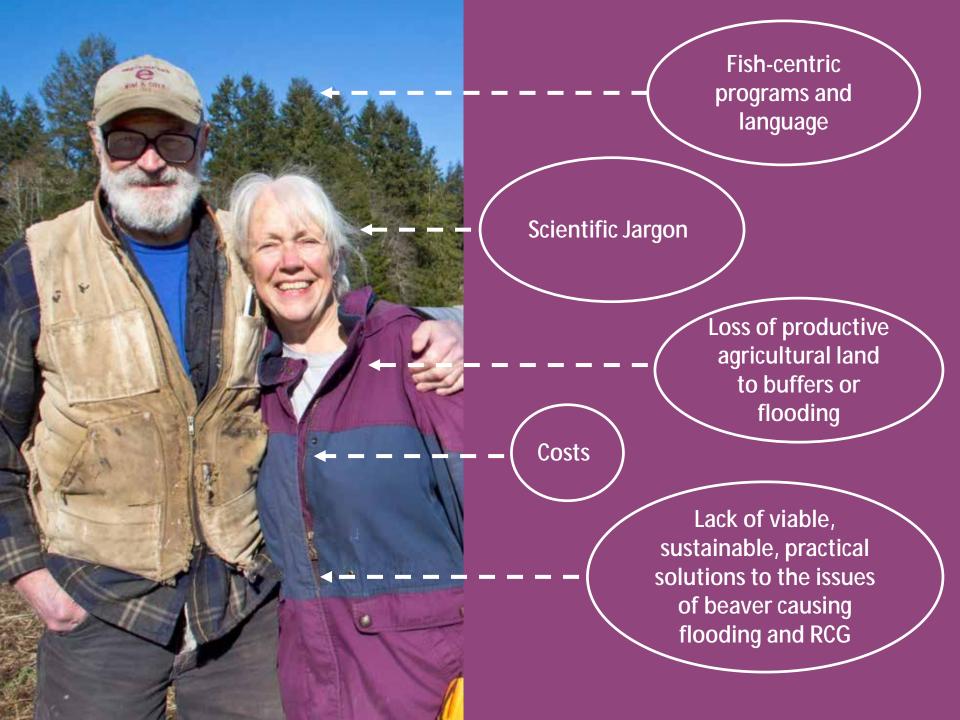








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Protection and Restoration Planning

REC#	TYPE	RM	LOCATION	RECOMMENDATION	RECOMMENDATION	PRIORITY	CONSIDERATIONS
NEC#	TIPE	KIVI	LOCATION	CATEGORY	RECOMMENDATION	PRIORITY	CONSIDERATIONS
1	Protection and Restoration	2.6	Main stem, downstream of confluence	Protect Current Land Use; Evaluate Potential for Wetland Restoration	Existing wetland currently zoned as mix of rural residential, agricultural open space, and vacant land. 2015 aerial photo shows development only at outer edges. Protect from additional development and evaluate for wetland restoration.	High	Additional opportunities here to improve channel/habitat complexity.
2	Restoration	3.3	Main stem, upstream of confluence	Roughen	Roughen channel with large wood to create habitat diversity.	Low	Riparian vegetation is mature, and 1996 data indicates presence of Coho and gravel, but no large wood, near RM 3.2. Additionally recommend 2-D hydraulic modeling to assess activation flows and changes in inundation from roughening, particularly since there are houses nearby.
3	Data Gap	3.2	Right bank tributary (ditch) to main stem	Analysis	Evaluate flow direction, discharge, and water quality in the ditch.	High	Two monitoring locations observed temperature exceedances 0.3 miles downstream of this tributary-ditch.
4	Restoration	3.9-4.1	Main stem	Re-meander	Re-meander small bends and roughen channel to aggrade incised channel downstream of control structure. Consider re-connecting to larger right bank meander upstream of control structure.	Medium	Good opportunities to add in-channel habitat complexity here, but restoration at this location depends on future actions regarding irrigation control structure. At a minimum, consider riparian planting on unvegetated left bank. Additionally recommend 2-D hydraulic modeling to assess activation flows and changes in inundation from roughening.
5	Data Gap	4	Main stem	Analysis	Investigate operation of irrigation control structure to determine effects on upstream flooding and downstream incision.	High	



High Priority

Riparian Easement:

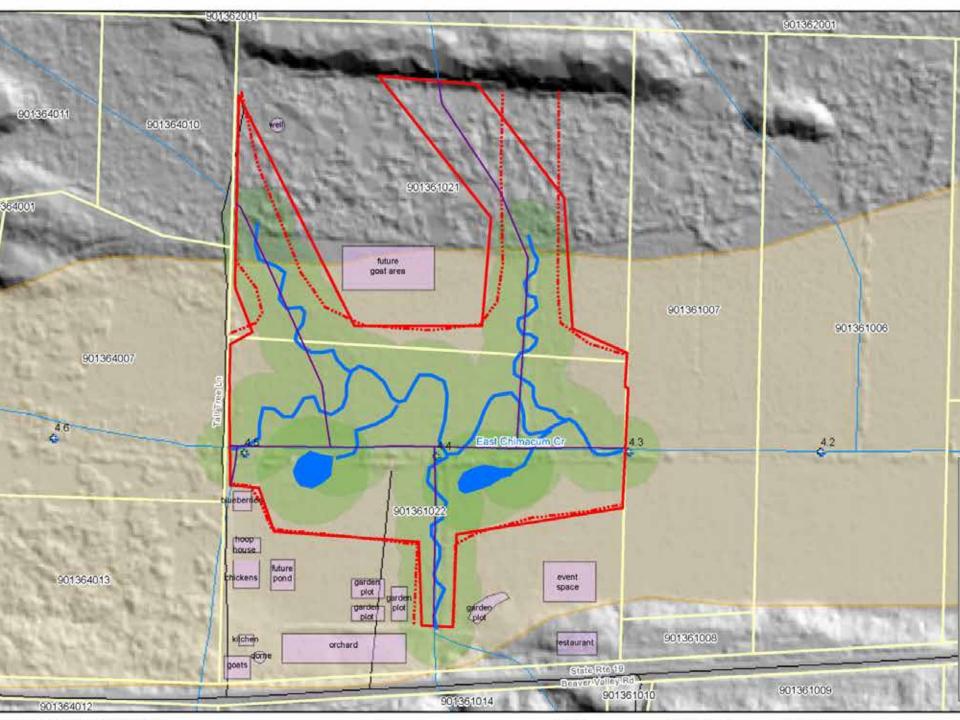
Protects 1,100 lineal feet of Chimacum Creek

Wetland Restoration:

- -Re-meander
- -In-stream Wood Placement
- -Riparian Reforestation

Beaver Reserve Opportunity

Landowners engaged and supportive



Key Takeaways:

- 1. Collaboration=Effective Projects. Establish regular meetings to keep partners updated and allow for technical input.
- 2. Budget time for cultivating landowner relationships
- 3. Consider the landowner outreach task like you would a marketing project
- 4. We are seeking to change the farms vs. fish paradigm to farms and fish.



Questions?



