

TECHNICAL MEMORANDUM



Date: December 4, 2020
To: City of Bremerton
From: Devin Melville, The Watershed Company
Dan Nickel, The Watershed Company
Project Name: City of Bremerton SMP Periodic Update
Project Number: 190347

Subject: City of Bremerton Shoreline Restoration Plan Addendum

The purpose of this memorandum is to update the previous Shoreline Restoration Plan adopted by the City of Bremerton in 2012. The Shoreline Restoration Plan is meant to help identify restoration or enhancement projects and areas of the shoreline for improvement. Generally, uses and developments within shorelines cannot always be fully mitigated, which may result in incremental and unavoidable degradation to the baseline conditions of the shoreline. The Restoration Plan document aims to counter these incremental degradations by identifying areas and projects for enhancement and restoration which can improve degraded baseline conditions along the shoreline over time.

This addendum references projects listed in the Shoreline Restoration Plan containing enhancement and restoration project proposals and updates them based on information received by the City, agencies, tribes and stakeholder organizations (Table 1). New projects which have been completed since 2012, or are planned for construction, are included in Table 2.

Table 1. Project updates for restoration actions

Project Location / Identifier	Environmental component(s)	Status (2020)	Proponent	Notes
Chico Bay (Drift Cell 90)	Removed bulkhead at "Place of Salmon Park"; removed invasive species/re-established native vegetation, removed Kittyhawk Drive Culvert; conducted estuary acquisitions	Complete	Suquamish Tribe	Project completed in 2014/2015; Suquamish Tribe acquired estuary; construction of SR 3 culvert to begin in 2021
Anna Smith Park (Drift Cell 147)	Removed bulkhead; restored shoreline access	Complete	Kitsap County	
Mosher Creek (Drift Cell 137)	Remove/replace culvert at Mosher Creek Crossing	No change		

Bremerton Shoreline Restoration Plan Addendum

December 3, 2020

Page 2 of 4

Project Location / Identifier	Environmental component(s)	Status (2020)	Proponent	Notes
Gorst Estuary (Drift Cell 34)	Acquisitions/easements	In-Progress		Now includes restoration of estuarine wetlands and removal of fill
*Retsil (Drift Cell 34) Sinclair Inlet	Replace undersized culvert; restore natural shoreline processes near boat ramp	No change		
*Beach Drive (Drift Cell 84) Sinclair Inlet	Replace culvert at Sacco Lane; fix Waterman Dock and restore shoreline; evaluate Culvert Size at Waterman Point	In-Progress		Waterman Dock removed in 2015
Illahee (Drift Cell 56)	Protect remaining salt marsh; implement Illahee regional stormwater treatment facility; replace culvert to reconnect marsh	In-Progress		Part of Proposed Capital Facility Plan to be implemented 2020-2025
Illahee State Park/Enetai (Drift Cell 56)	Investigate soft-bank armoring alternatives	No change		Replace culvert on Enetai Creek
Lower Chico Creek	Implement LID; replace culverts; continue creating salmonid habitat; continue to monitor and remove invasive plant species; replace Erlands Point Road bridge and restore upstream floodplain; replace road crossing at Chico Way NW and restore floodplain, stream corridor, and channel migration zone; replace Northlake Way NW bridge	In-Progress	Kitsap Conservation District	Riparian restoration and invasive species removal on private properties complete
Upper Chico Creek and Wetland	Protect existing functions; assess impacts of Seabeck Highway culverts and replace where needed; decommission trails in sensitive areas; remove invasive plants/replant appropriate wetland shrubs or trees; acquire headwater wetlands and wetlands utilized by beaver	In-Progress	Kitsap Conservation District and Suquamish Tribe	Restored riparian habitat in the Chico Creek watershed; Phase 2 of the Chico Creek Instream Restoration complete; Keta Park Floodplain restoration complete
Kitsap Lake and Wetland	Implement LID retrofits; improve riparian vegetation; remove invasive species	In-Progress	City of Bremerton	Stormwater treatment retrofits at 4 locations; additional projects include installing a stormwater treatment system and replacing the existing culvert

Project Location / Identifier	Environmental component(s)	Status (2020)	Proponent	Notes
				under Northlake Way in 2021
Union River	Maintain riparian forest buffers and improve large woody debris abundance; re-establish natural cover; retrofit existing structures with permeable pavement and rain gardens; replace undersized culverts; eliminate in-stream stormwater pond	In-Progress	Hood Canal Salmon Enhancement Group	Phase I completed in September of 2013

*Project site is not located within the City of Bremerton; however, it was listed in 2012 as it relates to waterbodies within or affected by Bremerton shorelines.

Table 2. Completed or planned projects not Included in the previous Shoreline Restoration Plan.

Project Location	Project Description	Status (2020)	Proponent	Notes
Evergreen Park	Restore nearshore ecological functions along 600 feet of shoreline; remove bulkhead; create stormwater swale; plant native vegetation	Proposed	City of Bremerton	The City developed a conceptual and preliminary design; anticipated start date is September 2022
Enetai Creek (R9)	Replaced 3 culverts	Complete	Mason Conservation District	
Krigsman Stream Restoration	Installed large woody debris; extirpated noxious weeds and planted native ground cover	Complete	Kitsap Conservation District	
Kitsap Creek	Replaced undersized culvert; increased habitat complexity; installed large woody debris; removed bank armoring; dechannelized stretch of stream to increase discharge capacity and reduce overbank flooding	Complete	Kitsap Conservation District	
Dyes Inlet	Removed bulkhead at two east shore properties and Mosher Creek; installed shoreline buffer and native plantings	Complete	Kitsap County	
Chico Creek Salmon Park	Remove culvert under Golf Club Hill road and replace with a 140-foot span bridge	In Progress	Kitsap County	

Bremerton Shoreline Restoration Plan Addendum

December 3, 2020

Page 4 of 4

Project Location	Project Description	Status (2020)	Proponent	Notes
Mid Chico Creek	Remove private driveway near Navy Railroad trestle; replace trestle; remove floodplain fill	In-Progress	Suquamish Tribe	
Ostrich Creek	Implement LID retrofits along Brentwood Drive, Kitsap Way, and Price Road; replace culverts; install 15 stormwater treatment systems; create bioretention swales	Proposed	City of Bremerton	Project to begin in 2021
Oyster Bay	Sewer relocation at Oyster Bay Beach; eliminate lateral connections to the gravity sewer main; install grinder pumps	Proposed	City of Bremerton	Project to begin in 2021
Stephenson Creek	Add stormwater treatment to the existing stormwater system improvement along Robin Avenue	In-Progress	City of Bremerton	
Gorst Creek	Replace culvert under old Belfair Highway; correct rear facility property passage issues	In-Progress	Suquamish Tribe	
Upper Dickerson Creek	Replaced two culverts; restored floodplain function at confluence of Dickerson and Chico Creek; improved stream and wetland conditions; restored fish passage habitat	Complete	Kitsap Conservation District and Kitsap County Public Works	