

SHORELINE AREA (Reach Code): Marine 19 – Chuckanut Bay
REACH NUMBER: 45

Land Use	Current Land Use	Single family residential, undeveloped forest and park access (Ref# 8, 54, 71)
	Zoning	41.4 acres residential, 11.4 acres public (Ref# 54)
Potential Species Present	Wildlife species	96.6 acres mustelid, 7.4 acres pinned (Ref# 3, 70, 71, 105)
	Fish species	Offshore high shrimp and crab densities offshore, hardshell clam habitat. Presumed presence of Coho and Bull trout. (Ref# 3, 70, 71, 105)
	PHS species/habitat	Dabbling Duck concentration area, Bald Eagle nesting territory in area (Ref# 3, 70, 71, 105)
	TSE species	Chinook in bay (FT & SC), Bald Eagle (FT). Coho (FCo) and Bull trout (FT) presumed. (Ref# 92, 93, 105)
	Invasive wildlife/fish species	No data
Physical Environment	Acres of land in reach	132.3 acres total with 40.1 acres of land and 92.2 acres of water (Ref# 13)
	Aquatic vegetation	17.2 acres eelgrass, 8.1 acres green algae, 2.9 acres salt/fresh marsh(Ref# 97, 98)
	Slope	Outer bay- 20-100% slopes dominate. Inner bay- 0-10% slopes dominate (Ref# 47, 103)
	Buildings	26 buildings covering 0.98 total acres (Ref# 16)
	Culverts/stormwater utilities	None indicated (Ref# 40, 41, 42)
	Geology	Continental sedimentary deposits and bedrock. Land slide hazard area is indicated on slopes 15-35% or greater. (Ref# 21, 51, 63)
	Tributary Creeks	Drainage from marsh enters bay, Chuckanut Creek, which is a regulated stream under COB Wetland and Stream Ordinance and the Shoreline Master Program. (Ref# 8, 42, 71)
	Impervious surface	42% semi-pervious, 32% pervious, 26% impervious (Ref# 12)
	Invasive plant species	Yellow flag iris in marsh and knotweed in upland buffer(Ref# 71)
	Roads/transportation	0.1 miles roads, 0.4 miles rail (0.3 acres road) (Ref# 34, 44, 46)
	Soils	Infiltration rates: 20.1 acres slow (Hydrologic soil Group C), 11.1 acres very slow with high runoff potential (Group D), 7.6 acres moderate and well drained (Group B). Erosion potential: 100.6 acres severe risk, 17.1 acres moderate risk, 14.6 acres slight risk. (Ref# 51, 63)
	Topography	0 to 191' range; 13' mean (Ref# 47)
	FEMA	90.5 acres in 100 year floodplain, none in floodway (Ref# 19)
	Terrestrial Vegetation	Mixed forest, marsh dune community at park, salt marsh at mouth of creek and bald habitats on exposed rocks along shoreline. Garry Oak present as are uncommon herbaceous plants associated with bald communities(Ref# 8, 71)
Marine Aquatic Function	Aquatic substrate type	50.3 acres mud, 23.0 acres mixed fines, 6.8 acres mixed coarse, 4.3 acres artificial, 3.4 acres sand, 0.7 acres boulders, 0.2 acres bedrock(Ref# 3, 99)
	Creosote structures	Treated piles located near boat ramp at east end of bay and possible treated features associated with structures near mouth of Padden Creek. (Ref# 71, 73, 74, 99)
	In-water structures	4 structures (docks) and rail crossing across the bay. Boathouse at Woodstock farm. 2 other - wooden jetty and old piles. (Ref# 71, 73, 74, 99)
	Bulkheads	Limited to rail crossing across bay(Ref# 71, 73, 74, 99)
	DOE 303(d)	No data
	Toxic sites/land fills	No data
	Bathymetry	-29.0' to 0' range; -1.5' mean(Ref# 25, 31)
	Wave energy	82.6 acres closed, 6.0 acres partially enclosed(Ref# 3, 99)

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	Point source pollution	None indicated – historic septic failures in Chuckanut drainage/ creosote piles near old boat ramp (Ref# 71)
	Waterways/dredge beds	No data
	Drift cells	No data
Marine Foreshore	Beach characterization	No data
	High-Low tide lines	77.3 acres Chuckanut lagoon
	Erosion/accretion zones	No data
Historic & Cultural	Historic aerials	None available – Tim Wahl has good documentation of this area.
	Archeological sites	Sites in area (Ref# 77)
	Historic sites	Inspiration Point (Ref# 77)
	Parks & public access	Public access at end of Fairhaven Avenue(Ref# 33, 34, 36)
Function Analysis	Reach Function	(Ref# for the following 1, 2, 5, 69, 70, 71)
	<ul style="list-style-type: none"> Hydrologic Shoreline Vegetation Habitat 	<p>Impaired by railroad trestle across mouth of bay.</p> <p>Slightly impaired in localized areas (on east side near residential areas).</p> <ul style="list-style-type: none"> Terrestrial habitat- Unimpaired and functioning at a high level. Intertidal habitat – Slightly impaired by water quality (fecal) Shallow Water and Deep Water habitat – shallow water slightly impaired by railroad trestle and water quality (Fecal). Unimpaired for Deepwater habitat (only located on west side of trestle).Shallow water and intertidal habitats have documented hardshell clam beds (only site in City limits)
	Limiting Factors	<ul style="list-style-type: none"> Rail road trestle Failing septic drain fields in drainage.
	Functions	
	<ul style="list-style-type: none"> Sustainable Not Sustainable 	<p>All functions sustainable with enhancements</p> <p>None</p>
	Priority Enhancement Actions	Repair of septic systems in drainage or conversion to City sewer.
	Current Enhancement Projects	Some control of Yellow flag iris in marsh at east end of bay by Wa. Native Plant Society. (Ref# 71)
Preservation/Enhancement Opportunities	<ul style="list-style-type: none"> Breaching the trestle in a second location to provide additional tidal flushing to bay (BBDP action # 30) (Ref# 73) Preservation of undeveloped portions within reach. 	