

SHORELINE AREA (Reach Code):Chuckanut 4
REACH NUMBER: 26

Land Use	Current Land Use	Undeveloped riparian forested areas. Residential zone parcels not developed significantly within shoreline jurisdiction. (Ref# 8,37,71)
	Zoning	43.0 acres residential; 2.0 acres public (Ref# 54,104)
Potential Species Present	Wildlife species	No data for unique wildlife species. (Ref# 61,69,70,105)
	Fish species	Migration, rearing and spawning for Chum, Sea-run Cutthroat. Migration and rearing for steelhead. Presumed presence of Bull trout. (Ref# 69,70,94,105)
	PHS species/habitat	None indicated (Ref# 24,92,93,105)
	TSE species	Puget Sound Coho (FCo) and Cutthroat (FCo). Bull trout (FT) presumed. (Ref# 92,93,105)
	Invasive wildlife/fish species	No data
Physical Environment	Acres of land in reach	45.4 acres, all land (Ref# 13)
	Aquatic vegetation	No data
	Slope	20-35% slopes dominate; areas of 0-5% slopes also present. (Ref# 21)
	Buildings	12 buildings covering 0.39 total acres (Ref# 16)
	Culverts/stormwater utilities	No detention identified, 1 culvert 34' long and one bridge (Ref# 39,40,41,42)
	Geology	Continental sedimentary deposits and alluvium. Land Slide Hazard Areas on slopes 15-35% or greater (Ref# 21,103)
	Tributary Creeks	Three tributary streams – two are headwaters streams and the third enters from south on Chuckanut Mt. (Ref# 8,57,59,71)
	Wetlands	(Ref# 11,52)
	Impervious surface (%)	83% pervious; 13% semi-pervious; 5% impervious (Ref# 12)
	Invasive plant species	No data
	Roads/transportation	Old Samish Road is the main road. Total of 0.2 miles or 0.7 acres of road. (Ref# 14,35,36,44,45,46)
	Soils	Infiltration rates: 30.5 acres moderate (Hydrologic soil Group B), 14.9 acres slow (Group C). Erosion potential: 33.3 acres slight risk, 12.1 acres moderate risk. (Ref# 51,63)
	Topography	119' to 310' range; 194' mean. (Ref# 47)
	FEMA	No floodplain or floodway in this reach (Ref# 19)
	Terrestrial Vegetation	Mixed coniferous/deciduous forest averaging 200' in most areas, but it has been decreased to approximately 50' near two houses. (Ref# 8,20,71)
Riparian Function	DOE 303(d)	Category 5 for fecal coliform. Plotnikoff and Wiseman, 2002, at station 97D (Chuckanut Cr @ Arroyo Park) show no biological degradation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.94. Plotnikoff and Wiseman, 2002, at station 121D (Chuckanut Cr @ Arroyo Park) show no biological degradation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 1.02. (Ref# 86,89)
	Channel confinement	Naturally confined (Ref# 22,23)
	Channel gradient	2 to 4 % (Ref# 22,23)
	Channel migration zone	None identified (Ref# 22,23,94)
	Creosote structures	No data
	Fish passage blockages	No structures, but low flow indicated as passage restriction (Ref# 15,94)
	In-water structures	None identified; bridge, one stream crossing (34' across) (Ref# 8,18,43,71)
LWD presence	Incomplete data	

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	Non-point source pollution	No data
	Point source pollution	No data
	Riffle/pool analysis	No data
	Substrate type	No data
	Toxic sites/land fills	None indicated (Ref# 80)
Historic & Cultural	Historic aerials	No data
	Archeological sites	No data
	Historic sites	None indicated (Ref# 77)
	Parks & public access	Public land on south side of Chuckanut creek no formal access to these areas (1.9 acres) (Ref# 33,34,36,48,54)
Function Analysis	Reach Function	
	<ul style="list-style-type: none"> Hydrologic Shoreline Vegetation Habitat 	<p>No indication of significant hydrologic impairment, however seasonal low flows have been documented to limit fish passage.</p> <p>No indication of significant vegetation impairment.</p> <p>Slightly impaired. Riparian vegetation present, but is restricted in size and diversity.</p>
	Limiting Factors	Water quality (Fecal coliform)
	Functions	
	<ul style="list-style-type: none"> Sustainable Not Sustainable 	<p>All three functions are sustainable.</p> <p>None indicated</p>
	Priority Actions	Repair or replace failing septic systems
Current Enhancement Projects	None recorded for this reach	
Preservation/Enhancement Opportunities	<ul style="list-style-type: none"> Maintain maximum buffer distances from the creek and all tributaries. Preserve wetlands and maximize wetland buffers. 	
(Ref# 24,61,69,70,71,89 for above)		