

SHORELINE AREA (Reach Code):Chuckanut 3 – Arroyo Park
REACH NUMBER: 25

Land Use	Current Land Use	Undeveloped forested areas. Residential zone parcels not developed within shoreline jurisdiction. Additional infill possible at fringes of SMA in areas. (Ref# 8,37,71)
	Zoning	12.2 acres public, 2.7 acres residential (Ref# 54,104)
Potential Species Present	Wildlife species	Pacific giant salamander and high amphibian use of riparian corridor (Wildlife Conservation Trust 2004). (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	Riparian corridor (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	14.9 acres, all land (Ref# 13)
	Aquatic vegetation	No data
	Slope	20-35% slopes dominate (Ref# 21)
	Buildings	None (Ref# 16)
	Culverts/stormwater utilities	No detention facilities or additional utilities indicated (Ref# 30,40,41,42)
	Geology	Continental sedimentary deposits and alluvium. Land Slide Hazard Area on slopes 15-35% or greater (Ref# 21,103)
	Tributary Creeks	None identified, but numerous seepages enter creek from sides of ravine. (Ref# 8,57,59,71)
	Wetlands	(Ref# 11,52)
	Impervious surface	81% pervious; 12% semi-pervious; 7% impervious (Ref# 12)
	Invasive plant species	No data
	Roads/transportation	Old Samish Road. Total of 0.2 miles or 0.7 acres of road.(Ref# 14,35,36,44,45,46)
	Soils	Infiltration rates: 12.0 acres slow (Hydrologic soil Group C), 2.9 acres moderate Group B). Erosion potential: 11.7 acres moderate risk, 3.2 acre slight risk. (Ref# 51,63)
	Topography	56' to 185' range; 111' mean. (Ref# 47)
	FEMA	No floodplain or floodway in this reach. (Ref# 19)
	Terrestrial Vegetation	Dominated by mixed coniferous/deciduous forest averaging greater than 200 feet on both side of the channel. (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	1 to 2 % (Ref# 22,23)
	Channel migration zone	None identified (Ref# 22,23,94)
	Creosote structures	No data
	Fish passage blockages	Partial blockage from culvert – location undetermined (source NNW habitat assessment) (Ref# 15,94)
	In-water structures	None identified; foot bridge over creek in park (Ref# 8,18,43,71)

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	LWD presence	No data
	Non-point source pollution	No data
	Point source pollution	No data
	Riffle/pool analysis	No data
	Substrate type	No specific data, but similar to reach 24
	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	Most of reach in Arroyo Park with public access trails (10.6 acres) (Ref# 33,34,36,48,54)
Function Analysis	Reach Function	
	• Hydrologic	No indication of significant hydrologic impairment.
	• Shoreline Vegetation	No indication of significant vegetation impairment.
	• Habitat	Slightly impaired. Riparian vegetation present, but is restricted in size and diversity.
	Limiting Factors	Water quality (Fecal coliform)
	Functions	
	• Sustainable	All three functions are sustainable.
• Not Sustainable	None indicated	
Priority Actions	None indicated	
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)