

**SHORELINE AREA (Reach Code): WHATCOM 1**

**REACH NUMBER: 12**

Land Use	Current Land Use	Commercial and light industrial uses at the mouth of the creek. The creek confluence with Bellingham Bay has been channelized and is dominated by industrial uses. Approximately half of the reach is a public park. (Ref# 8,37,71)
	Zoning	8.5 acres commercial and 3.0 acres public (Ref# 54,104)
Potential Species Present	Wildlife species	In 50% of the reach: presence of a variety of non-urban mammals, including habitat specific species; equal numbers of urban and non-urban birds; native amphibians, and garter snakes and lizard habitat. 100% of the reach has poor animal movement opportunities. (Ref# 61,69,70,105)
	Fish species	Bull trout, Chinook, Coho, Chum, Sea-run Cutthroat, Pink, Sockeye, Steelhead (Ref# 69,70,94,105)
	PHS species/habitats	50% of the reach has habitat for breeding/rearing/ wintering use by multiple PHS or SC. (Ref# 24,92,93,105)
	TSE species	Bull trout (FT), Chinook (FT & SC), Coho (FCo), and Cutthroat (FCo). (Ref# 92,93,105)
	Invasive wildlife/fish species	No data
Physical Environment	Acres of land in reach	11.6 total acres with 10.0 acres of land and 1.6 acres of water (Ref# 13)
	Aquatic vegetation	Two-thirds of this reach is tidally influenced.
	Slope	Slope class 20-35% dominates the shoreline, especially upper extent of reach where water flows through a sandstone out cropping (falls). Areas of 0-5% slope are present in the outer portion of the reach. (Ref# 21)
	Buildings	9 covering 1.5 acres total (Ref# 16)
	Culverts/stormwater utilities	Six culverts. Six stormwater discharge points, sewer mains and storm drain lines are present. (Ref# 39,40,41,42)
	Geology	The reach is half continental glacial outwash and half glaciomarine drift. Seismic Hazard Area (geologic units). (Ref# 21,103)
	Tributary creeks	None indicated (Ref# 8,57,59,71)
	Wetlands	(Ref# 11,52)
	Impervious surface	45% impervious, 28% pervious, 27% semi-pervious (Ref# 12)
	Invasive plant species	No data
	Roads/transportation	A major arterial borders the reach on each end (Holly Street and Dupont). Total of 0.1 miles or 0.3 acres of roads. (Ref# 14,35,36,44,45,46)
	Soils	Hydric soils, very low filtration with high potential for runoff (Hydrologic soil Group D). (Ref# 51,63)
	Topography	0' to 62' range; 22' mean. (Ref# 47)
	FEMA	2.2 acres in 100 year floodplain, 1.3 acres in the floodway. Lower extent of reach is tidally flooded. (Ref# 19)
	Terrestrial Vegetation	Portions of the reach have shrub and tree cover along the OHWM. The remainder of the vegetation is mowed grass (park property). Approximately half of the reach is pavement, buildings, or structures. Half the reach has an equal mix of native and naturalized non-native plants, medium quality native plant community. Overstory is sparse in half the reach and non-existent in the remainder. (Ref# 8,20,71)
Riparian Function	DOE 303(d)	Category 5 Polluted Waters listed for dissolved oxygen, fecal coliform, and temperature. Category 4 Impaired Waters for Non-point pollution, in-stream flow and fish habitat insufficient for salmonid use. Category 2 Water of concern for pH. TMDL for fecal coliform. (Ref# 56,85,89)
	Channel confinement	Unconfined (Ref# 22,23)
	Channel gradient	<1%, except upper extent in area of the falls (Ref# 22,23)

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	Channel migration zone	No data
	Creosote structures	Potential creosote piles from old docks (Ref# 8,71)
	Fish passage blockages	The natural falls located at the upper end of the reach may be a barrier for some fish species. (Ref# 8,15,71,94)
	In-water structures	Concrete bridge structure at Holly Street – lower extent of reach. Concrete bulk head. One foot bridge (over water). Potential pilings from old docks. (Ref# 8,18,43,71)
	LWD presence	Incomplete data
	Non-point source pollution	No data
	Point source pollution	No data
	Riffle/pool analysis	No data
	Aquatic substrate type	No data, some estuarine vegetation may be present (Ref# 71)
	Toxic sites/land fills	<b>Holly Street Landfill:</b> Sediment and ground water: metals, petroleum, aromatic hydrocarbons, EPA priority pollutants, base neutral acid organics. (Ref# 80)
Historic & Cultural	Historic aerials	No data
	Archeological sites	No data
	Historic sites	None indicated (Ref# 77)
	Parks & public access	2.5 acres of open space and park, includes Maritime Heritage Park. 1.3 acres of community park and 1.3 acres of neighborhood park. (Ref# 33,34,36,48,54)
Function Analysis	<b>Reach Function</b>	
	<ul style="list-style-type: none"> <li>Hydrologic</li> <li>Shoreline Vegetation</li> <li>Habitat</li> </ul>	<p>Impaired. Hydrology is flashy and tidal flooding is restricted.</p> <p>Impaired. Shoreline vegetation is limited.</p> <p>Impaired. Natural habitat is limited.</p>
	<b>Limiting Factors</b>	<ul style="list-style-type: none"> <li>Water quality</li> <li>Limited shoreline vegetation</li> <li>Impaired habitat- riparian and in-water</li> </ul>
	<b>Functions</b>	<p>All three functions are sustainable, with improvements</p> <p>Hydrology- most likely cant be sustained beyond current condition, except tidal flooding</p>
	<b>Priority Actions</b>	<ul style="list-style-type: none"> <li>Improve Holly Street bridge to allow for tidal influence in the creek and improved fish passage</li> <li>Toxic site clean-up</li> <li>Removal of creosote structures</li> <li>Restoration of marsh habitat</li> </ul>
	<b>Current Enhancement Projects</b>	<ul style="list-style-type: none"> <li>Holly Street landfill restoration</li> <li>Improvements to the Holly Street bridge</li> <li>Enhancement of the shoreline with native plants</li> </ul>
<b>Preservation/Enhancement Opportunities</b>	<ul style="list-style-type: none"> <li>Enhancement of riparian vegetation through planting with native trees and shrubs</li> </ul>	
(Ref# 1,24,61,69,70,71,89 for above)		