

**SHORELINE AREA (Reach Code): SQUALICUM 8**

**REACH NUMBER: 8**

Land Use	Current Land Use	Majority of the parcel is undeveloped. WA DNR owns the majority of the property. (Ref# 8,37,71)
	Zoning	24.3 acres public, 4.2 acres industrial, 3.4 acres residential multi-family. (Ref# 54,104)
Potential Species Present	Wildlife species	In 90% of the reach: presence of an abundance of garter snakes and lizards with denning habitat; a variety of non-urban mammals, including habitat specific species; a variety of non-urban birds dominate, including habitat specific species; and a variety of native amphibians present. In 90% of the reach movement for all sizes of animals, including amphibians is possible. (Ref# 61,69,70,105)
	Fish species	Chinook, Coho, Sea-run Cutthroat, Steelhead. Presumed for Bull trout and Chum. (Ref# 69,70,94,105)
	PHS species/habitat	Fish accessible wetlands in valley. 90% of the reach has habitat for breeding and/ or rearing by 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	31.8 acres total with 31.4 acres of land and 0.4 acres of water (Ref# 13)
	Aquatic vegetation	No data
	Slope	Generally flat, in outwash valley, slope class 2-5%. Steep ridge along southern boundary of valley and SMA, slope classes 20-35% and 35-50%. (Ref# 21)
	Buildings	4 covering 0.09 acres total (Ref# 16)
	Culverts/stormwater utilities	Culvert or tunnel under Hannegan Road. Sewer main along Hannegan Road. No stormwater discharge points are indicated, however based on existing drain lines, 2 discharges are possible. (Ref# 39,40,41,42)
	Geology	Southern portion of reach is glaciomarine drift and the lower valley is continental glacial outwash. Seismic Hazard Areas (geologic units) and Landslide Hazard Areas on 15-35% or greater slopes are indicated in the very lower extent of the reach. (Ref# 21,103)
	Tributary creeks	The main stem of Squalicum Creek splits into two tributaries (#6 & #7) in this reach. Both are regulated under COB Wetland and Stream Ordinance. (Ref# 8,57,59,71)
	Wetlands	(Ref# 11,52)
	Impervious surface	76% pervious, 16% semi-pervious, 7% impervious (Ref# 12)
	Invasive plant species	Herbaceous portion of reach is nearly 100% reed canary grass (~30% of reach) (Ref# 71,100)
	Roads/transportation	Hannegan Road in the lower terminus of reach. Creek is located several hundred feet from the road. Old railroad grade in reach, including bridge across creek in upper portion of reach. Total of 0.3 miles or 1.4 acres of road. (Ref# 14,35,36,44,45,46)
	Soils	The northern portion of the reach has hydric soils, very low filtration/higher runoff potential (Hydrologic soil Group D). The very southern portion of the reach has high filtration/low runoff soils (Group A). (Ref# 51,63)
	Topography	126' to 231' range; 137' mean. (Ref# 47)
	FEMA	23.7 acres in 100 year floodplain, 13.4 acres in the floodway (Ref# 19)
	Terrestrial Vegetation	Pasture grasses dominated by reed canary grass. Buffer on the east side of the creek improves to shrub and then tree communities; west side of the creek is herbaceous. No real canopy cover for the creek. South side of reach tends to be diverse multi-structured native habitat of high quality; forest with mature component and emerging young trees. (Ref# 8,20,71)

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<b>Riparian Function</b>	DOE 303(d)	Category 5 Polluted Water listed for fecal coliform and dissolved oxygen. Category 2 Water of Concern listed for temperature. (Ref# 83,89)
	Channel confinement	Unconfined (Ref# 22,23)
	Channel gradient	<1% (Ref# 22,23)
	Channel migration zone	Migration is available in this reach. Creek is situated in undeveloped flood plain valley. (Ref# 22,23,94)
	Creosote structures	No data
	Fish passage blockages	None indicated (Ref# 15,94)
	In-water structures	Unknown – railroad bridge (Ref# 8,18,43,71)
	LWD presence	None indicated
	Non-point source pollution	No data
	Point source pollution	No data
	Riffle/pool analysis	No data
	Aquatic substrate type	No data
	Toxic sites/land fills	None indicated (Ref# 80)
	<b>Historic &amp; Cultural</b>	Historic aerials
Archeological sites		No data
Historic sites		None indicated (Ref# 77)
Parks & public access		No public access (Ref# 33,34,36,48,54)
<b>Function Analysis</b>	<p><b>Reach Function</b></p> <ul style="list-style-type: none"> <li>Hydrologic</li> <li>Shoreline Vegetation</li> <li>Habitat</li> </ul> <p><b>Limiting Factors</b></p> <p><b>Functions</b></p> <ul style="list-style-type: none"> <li>Sustainable</li> <li>Not Sustainable</li> </ul> <p><b>Priority Actions</b></p> <p><b>Current Enhancement Projects</b></p> <p><b>Preservation/Enhancement Opportunities</b></p>	<p>Unimpaired.</p> <p>Impaired. Invasive species (reed canary grass)</p> <p>Impaired on west bank; Functioning on east bank</p> <ul style="list-style-type: none"> <li>Water quality</li> <li>Invasive species</li> </ul> <p>All three function sustainable with improvements.</p> <p>None.</p> <ul style="list-style-type: none"> <li>Canopy cover</li> <li>Invasive species control</li> <li>In-stream structures</li> <li>Water quality improvement</li> </ul> <p>None are recorded for this reach</p> <p>Preserve existing habitat east of creek, including forested area outside of SMA. (Ref# 4,24,61,69,70,71,75,89 for above)</p>