

SHORELINE AREA (Reach Code): SQUALICUM 9

REACH NUMBER: 9

Land Use	Current Land Use	Light industrial – cement, paving, construction. Undeveloped land appears to be dominated by wetland. (Ref# 8,37,71)
	Zoning	25.3 acres industrial, 0.3 acres residential (Ref# 54,104)
Potential Species Present	Wildlife species	In 50% 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; a variety of native only amphibians present. In 50% 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. 50% 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# 92,92,105)
	Invasive wildlife/fish species	No data
Physical Environment	Acres of land in reach	25.6 acres total with 24.2 acres of land and 1.4 acres of water (Ref# 13)
	Aquatic vegetation	No data
	Slope	Generally flat, slope class in the majority of the reach is 0-5%. (Ref# 21)
	Buildings	6 covering 0.62 acres total (Ref# 16)
	Culverts/stormwater utilities	Access road crossing at Wilder (structure unknown). No sewer mains and no stormwater discharge points are indicated. (Ref# 39,40,41,42)
	Geology	Continental glacial outwash (Ref# 21,103)
	Tributary creeks	None indicated (Ref# 8,57,59,71)
	Wetlands	(Ref# 11,52)
	Impervious surface	49% impervious, 32% pervious, 19% semi-pervious (Ref# 12)
	Invasive plant species	No data
	Roads/transportation	Inactive railroad grade located east of stream. No roads in reach. Transportation limited to business activities (Wilder) – access road across creek. 0.1 acres of road. (Ref# 14,35,36,44,45,46)
	Soils	The entire reach has hydric soils, very low filtration/higher runoff potential (Hydrologic soil Group D). (Ref# 51,63)
	Topography	130' to 162' range; 135' mean. (Ref# 47)
	FEMA	20.0 acres in 100 year floodplain, 7.1 acres in the floodway (Ref# 19)
	Terrestrial Vegetation	Mixed herbs, shrubs and some trees through the area. West side of reach is light industrial development. The buffer on the east side of the creek offers more canopy, then the railroad grade and than an area that has been cleared for storage of business related equipment, etc. Approximately 50% of reach is diverse multi-structured native habitat of high quality (Nahkeeta data – number may be high). Some mature native forest. (Ref# 8,20,71)

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Riparian Function	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 limited due to development and railroad grade (Ref# 22,23,94)
	Creosote structures	No data
	Fish passage blockages	None listed (Ref# 15,94)
	In-water structures	Road crossing with unknown structure (Wilder) (Ref# 8,18,43,71)
	LWD presence	No data
	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)
Historic & Cultural	Historic aerials	No data
	Archeological sites	No data
	Historic sites	None indicated (Ref# 77)
	Parks & public access	No public access (Ref# 33,34,36,48,54)
Function Analysis	<p>Reach Function</p> <ul style="list-style-type: none"> Hydrologic Shoreline Vegetation Habitat <p>Limiting Factors</p> <p>Functions</p> <ul style="list-style-type: none"> Sustainable Not Sustainable <p>Priority Actions</p> <p>Current Enhancement Projects</p> <p>Preservation/Enhancement Opportunities</p>	<p>Slightly Impaired. Floodplain development Impaired. Invasive species Impaired. Current land use, railroad grade</p> <ul style="list-style-type: none"> Zoning, land use <p>Sustainable as fish passage corridor. No to all three functions.</p> <ul style="list-style-type: none"> Canopy cover and buffer enhancement Preservation of wetland complex east of creek Water quality improvement <p>None are recorded for this reach</p> <ul style="list-style-type: none"> Access road crossing – possible fish passage issues Surface water re-connection between creek and wetland complex In-stream structures (possible – status of current structures unknown) <p>(Ref# 4,24,61,69,70,71,75,89 for above)</p>