

SHORELINE AREA (Reach Code): WHATCOM 8

REACH NUMBER: 19

Land Use	Current Land Use	Whatcom Creek is located in Whatcom Falls Park. The eastern portion of the SMA is dominated by residential development. A trail is also located on this side of the creek. (Ref# 8,37,71)
	Zoning	17.1 acres public, 6.5 acres single family residential, 0.5 acres multi-family residential (Ref# 54,104)
Potential Species Present	Wildlife species	In 80% of the reach: presence of 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 amphibians, and an abundance of garter snakes and lizards and denning habitat. Movement is possible for all animals including amphibians in 80% of the reach. (Ref# 61,69,70,105)
	Fish species	Resident cutthroat trout and Kokanee (Ref# 69,70,94,105)
	PHS species/habitats	80% of the reach has habitat for breeding/rearing/wintering use by multiple PHS or SC. (Ref# 24,92,93,105)
	TSE species	Cutthroat trout (FCo) (Ref# 92,93,105)
	Invasive wildlife/fish species	No data
Physical Environment	Acres of land in reach	24.1 acres total with 20.6 acres of land and 0.8 acres of water (Ref# 13)
	Aquatic vegetation	No data
	Slope	Slopes are 20-34% along the majority of the creek, but the channel bed is wider and less confined. Some areas of 35-50% slopes are present. The ravine floor varies between 2-5% and 5-10% slopes. (Ref# 21)
	Buildings	21 covering 0.60 acres total (Ref# 16)
	Culverts/stormwater utilities	Two culverts are on the east side of reach in upper portion. Two stormwater discharge points in reach. Sewer main runs parallel to creek along entire reach, along Electric Avenue. (Ref# 39,40,41,42)
	Geology	Continental sedimentary rock. Landslide Hazard Area on 15-35% or greater slopes (Ref# 21,103)
	Tributary creeks	None indicated (Ref# 8,57,59,71)
	Wetlands	(Ref# 11,52)
	Impervious surface	65% pervious, 26% semi-pervious, 8% impervious (Ref# 12)
	Invasive plant species	Possibly present upper portion of reach: Eurasian water milfoil, yellow flag iris, knotweed, reed canary grass, hairy willow herb, bittersweet nightshade, old man's beard (Ref# 100)
	Roads/transportation	Some internal park roads. Electric Ave, a major arterial, located within the SMA at upper portion of reach. Total of 0.1 acres or 0.3 acres of roads. (Ref# 14,35,36,44,45,46)
	Soils	Soils are moderate filtration/runoff potential (Hydrologic soil Group B). (Ref# 51,63)
	Topography	302' to 357' range; 321' mean. (Ref# 47)
	FEMA	12.3 acres in 100 year floodplain, none in the floodway (Ref# 19)
	Terrestrial Vegetation	The reach is dominated by mixed coniferous/deciduous forest. Outer portions of SMA on east side dominated by dwellings. Majority of reach dominated by a diverse multi-structured native habitat of high quality. Overstory is mature native forest with emergent trees. (Ref# 8,20,71)
Riparian Eunction	DOE 303(d)	Category 5 Polluted Waters listed for dissolved oxygen, fecal coliform, and temperature. Category 2 Water of concern for pH and bio-assessment (biological degradation based in invertebrates). TMDL for fecal coliform. (Ref# 56,85,89)
	Channel confinement	Lower to upper: unconfined; moderately confined; unconfined (Ref# 22,23)
	Channel gradient	<1% (Ref# 22,23)

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	Channel migration zone	No data
	Creosote structures	No data
	Fish passage blockages	Dam located at upper and lower extent of reach (Ref# 15,94,71)
	In-water structures	Over water foot bridge in upper reach. Dam located at upper and lower extent of reach. Lower dam is a foot path also. (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
	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	1.0 acres of community park, 0.8 acres of neighborhood park, 0.2 acres of open space. Area in Whatcom Falls Park. (Ref# 33,34,36,48,54)
Function Analysis	Reach Function	
	<ul style="list-style-type: none"> Hydrologic Shoreline Vegetation Habitat 	<p>Altered by a control dam at the outfall of the lake</p> <p>Slightly impaired. Some invasive, non-native species are present.</p> <p>Slightly impaired. Residential development and park usage are increased.</p>
	Limiting Factors	<ul style="list-style-type: none"> Water quality Residential development
	Functions	<p>All functions are sustainable with some improvements</p> <p>None. Hydrology- most likely can not be sustained beyond current condition.</p>
	Priority Actions	<ul style="list-style-type: none"> Retain existing buffer distances Stormwater treatment and detention Water quality improvement
	Current Enhancement Projects	None are recorded for this reach
Preservation/Enhancement Opportunities	<ul style="list-style-type: none"> Control of invasive, non-native species Retain existing undeveloped habitat adjacent to SMA <p>(Ref# 24,61,69,70,71,89,100 for above)</p>	