

**SHORELINE AREA (Reach Code): WHATCOM 6**

**REACH NUMBER: 17**

Land Use	Current Land Use	Majority of the land use is public park. No residential buildings area located within the SMA. (Ref# 8,37,71)
	Zoning	27.6 acres public (Whatcom Falls Park), 9.3 acres multi-family residential (Ref# 54,104)
Potential Species Present	Wildlife species	In 100% 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. Movement is possible for all animals including amphibians in 100% of the reach. (Ref# 61,69,70,105)
	Fish species	Chinook, Chum, Sea-run & Resident Cutthroat, Pink, Steelhead. Presumed potential/historic for bull trout and coho. (Ref# 69,70,94,105)
	PHS species/habitat	Nearly 100% 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	36.9 with 34.2 acres of land and 2.7 acres of water (Ref# 13)
	Aquatic vegetation	No data
	Slope	The majority of the reach is incised in a steep, narrow ravine, including falls within the creek, with slope classes of 20-35% and greater (up to 50-70%). Lower most portions of the reach are gently sloping, slope class of 2-5%, with some narrow bands of steepness along the creek in this area. (Ref# 21)
	Buildings	Zero (Ref# 16)
	Culverts/stormwater utilities	Three culverts are located along Woburn Street at lower terminus of reach. Only utilities are along Woburn Street. (Ref# 39,40,41,42)
	Geology	Extreme lower portion of reach is glaciomarine drift, the rest of the reach is 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	61% pervious, 38% semi-pervious, 1% impervious (Ref# 12)
	Invasive plant species	No data
	Roads/transportation	Only road is Woburn Street located at lower terminus of reach. (Ref# 14,35,36,44,45,46)
	Soils	Hydric soils, very low filtration with high potential for runoff (Hydrologic soil Group D) in lower most corner of reach. The remainder of the reach has moderate filtration/runoff soils (Group B). (Ref# 51,63)
	Topography	78' to 258' range; 158' mean. (Ref# 47)
	FEMA	12.2 acres in 100 year floodplain, none in the floodway. Floodplain is restricted by topography. (Ref# 19)
	Terrestrial Vegetation	Vegetation is native coniferous/deciduous forest. Entire length reach was burned by pipeline explosion and restoration has occurred. Before fire occurred the reach was dominated by a diverse multi-structured native habitat of high quality. Overstory was mature native forest with emergent trees. (Ref# 8,20,71)
Riparian Function	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 on invertebrates). TDML for fecal coliform. (Ref# 56,85,89)
	Channel confinement	Lower ¼: unconfined; Upper ¾: confined (Ref# 22,23)

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	Channel gradient	Lower 2-4%; Upper 4-8% (Ref# 22,23)
	Channel migration zone	No data
	Creosote structures	No data
	Fish passage blockages	Impassible falls located in upper portion of reach (natural feature) (Ref# 15,94)
	In-water structures	None indicated (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. One sampling point was taken just below the falls: 53% cobble, 18% coarse gravel, 16% boulder, 14% fine gravel. (Ref# 86)
	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	0.5 acres of community park, 0.5 acres of neighborhood park – area associated with Whatcom Falls Park (Ref# 33,34,36,48,54)
Function Analysis	<b>Reach Function</b>	
	• Hydrologic	Unimpaired.
	• Shoreline Vegetation	Unimpaired.
	• Habitat	Unimpaired.
	<b>Limiting Factors</b>	Water quality
	<b>Functions</b>	
	• Sustainable	All functions are sustainable
• Not Sustainable	None. Hydrology- most likely can not be sustained beyond current condition.	
<b>Priority Actions</b>	<ul style="list-style-type: none"> <li>• Stormwater treatment and detention</li> <li>• Water quality improvement</li> </ul>	
<b>Current Enhancement Projects</b>	Two projects have taken place to restore the shoreline and riparian vegetation along both sides of the creek, but only in the very lower extent of the reach.	
<b>Preservation/Enhancement Opportunities</b>	Preservation of existing shoreline and riparian vegetation, and habitat (Ref# 24,49,50,61,69,70,71,89 for above)	