

**SHORELINE AREA (Reach Code): Lake Padden 2**

**REACH NUMBER: 53**

Land Use	Current Land Use	Majority of reach is located in Lake Padden Park. This reach is dominated by a mixed coniferous forest with trails and picnicking areas. Land use is moderate. (Ref# 8,37,71)
	Zoning	8.6 acres public, 8.5 acres water, 0.9 acres residential (Ref# 54,104)
Potential Species Present	Wildlife species	Documented nesting territory for Bald Eagle. Nearly 100% of the reach has an abundance of garter snakes and lizards present with denning habitat, a variety of non-urban mammals and birds present including habitat specific species, and a variety of native amphibians present. Movement is possible for all sizes of animals, including amphibians, throughout the entire reach. (Ref# 61,69,70,105)
	Fish species	Resident cutthroat in the lake; and spawning habitat in tributary stream. (Ref# 69,70,94,105)
	PHS species/habitat	Breeding/ rearing/ wintering habitat is present for use by multiple PHS or SC.(Ref# 24,92,93,105)
	TSE species	Bald eagle (FT) (Ref# 92,93,105)
	Invasive wildlife/fish species	No data
Physical Environment	Acres of land in reach	17.9 acres total with 9.5 acres of land and 11.3 acres of water (Ref# 13)
	Aquatic vegetation	Common elodea, big-leaf pondweed, curly leaf pondweed, tapegrass (non-native), spatterdock, and Chara. (Ref# 100)
	Slope	Slope class for the majority of the reach is 0 to 5%, with small areas of 20 to 34%. (Ref# 21)
	Buildings	No buildings (Ref# 16)
	Culverts/stormwater utilities	Sanitary sewer present. No storm drains or culverts identified (Ref# 39,40,41,42)
	Geology	Continental glacial drift (Ref# 21,103)
	Tributary Streams	One stream (#31) enters lake in the south end of the reach. (Ref# 8,57,59,71)
	Wetlands	None indicated (Ref# 11,52)
	Impervious surface	86% pervious, 9% semi-pervious, 5% impervious (Ref# 12)
	Invasive plant species	Himalayan blackberry, non-native orchid in forested picnic area (status undetermined). (Ref# 71,100)
	Roads/transportation	Major roads: Samish Way. Secondary roads: Lakeshore Road and smaller access roads in the park. Total of 0.1 miles or 0.3 acres of roads. (Ref# 14,35,36,44,45,46)
	Soils	Infiltration rates: 5.3 acres of high with low runoff potential (Hydrologic soil Group A) and 5.2 acres of very slow with high runoff potential (Group D). Erosion potential: 10.5 acres slight risk and 7.4 acres of severe risk. (Ref# 51,63)
	Topography	457' to 487' range; 461' mean. (Ref# 47)
	FEMA	8.5 acres in 100 year floodplain, none in floodway (Ref# 19)
	Terrestrial Vegetation	Vegetation cover is moderate to high. Nearly 100% of the reach is a diverse multi-structured, mature native forest with emergent trees, and a high quality native plant community. (Ref# 8,20,71)
Lacustrine Function	Alluvial fans	None identified (Ref# 8,71)
	Aquatic substrate type	No data
	In-water structures	One dock. (Ref# 8,18,71)
	Bulkheads	None identified (Ref# 8,71)
	DOE 303(d)	Category 5 Polluted waters listed for pentachlorophenol, Category 2 water of concern for temperature and pH (one excursion of each in 2001). (Ref# 89)
	Toxic sites/land fills	None indicated (Ref# 80)
	Invasive plant cover	No data

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	Bathymetry	No data
Historic & Cultural	Historic aerials	No data
	Archeological sites	No data
	Historic sites	None indicated (Ref# 77)
	Parks & public access	Nearly the entire reach is within a public park. (Ref# 33,34,36,48,54)
Function Analysis	<b>Reach Function</b>	
	• Hydrologic	No indication of significant hydrologic impairment. Lake level controlled by weir at outlet.
	• Shoreline Vegetation	No indication of significant impairment.
	• Habitat	Slightly impaired due to park recreational development.
	<b>Limiting Factors</b>	Water quality (pentachlorophenol)
	<b>Functions</b>	
	• Sustainable	Hydrology, shoreline vegetation and habitat
• Not Sustainable	None identified.	
<b>Priority Action</b>	None identified.	
<b>Current Enhancement Projects</b>	None recorded for this reach.	
<b>Preservation/Enhancement Opportunities</b>	<ul style="list-style-type: none"> <li>• Relocation of park trails away from the shoreline.</li> <li>• Control of invasive, non-native vegetation.</li> </ul>	
(Ref# 24,61,69,70,71,89 for above)		