

SHORELINE AREA (Reach Code): LKWHATCOM 1

REACH NUMBER: 47

Land Use	Current Land Use	Urban residential dominated by single family homes along the lake shore. Reach has 4.7 acres of open water. Two private park areas are located within the reach. (Ref# 8,37,71)
	Zoning	Residential single family 49.3 acres, residential multi-family 4.6 acres. (Ref# 54,104)
Potential Species Present	Wildlife species	Animal/birds/reptiles/amphibians not present or unknown. Movement not possible without high risk. (Ref# 61,69,70,105)
	Fish species	Resident Cutthroat trout and Kokanee (Ref# 69,70,94,105)
	PHS species/habitats	None indicated (Ref# 24,92,93,105)
	TSE species	Cutthroat trout (FCo) (Ref# 92,93,105)
	Invasive wildlife/fish species	Rainbow trout, lake trout, large and small mouth bass, yellow perch, brown bullhead, pumpkinseed (Ref# 66,67)
Physical Environment	Acres of land in reach	98.6 total acres with 45.9 acres of land and 52.7 acres of water (Ref# 13)
	Aquatic vegetation	Basin 1: 26% submerged (littoral zone), 7% emergent. LWD is low to moderate. (Ref# 66,67)
	Slope	0-10% slopes dominate. Some areas of 20- 35% slopes present at the north end of the lake. (Ref# 21)
	Buildings	139 covering 7.28 acres total. Single family homes dominate, some multi-family is present as well. (Ref# 16)
	Culverts/Stormwater utilities	Many culverts are located along the entire reach. Sewer mains present along Northshore Road, and several stormwater discharges are located along the reach (in association with drain lines). Two detention facilities (0.23 acres). (Ref# 39,40,41,42)
	Geology	Glacial lake – continental sedimentary rock (Ref# 21,103)
	Tributary Creeks	3 creeks – Silver Creek (#11), un-named creek (#10) at the north end of the lake, and un-named creek (#12) south on Northshore Road. All three are regulated by COB Wetland and Stream Ordinance. (Ref# 8,57,59,71)
	Wetlands	(Ref# 11,52)
	Impervious surface	47% impervious, 39% semi-pervious, 14% pervious (Ref# 12)
	Invasive plant species	No data
	Roads/transportation	Northshore Road and Electric Ave are major arterials within 200 feet of lake shore. Secondary access roads present at north end of lake. Total of 1.1 miles or 3.5 acres of road. (Ref# 14,35,36,44,45,46)
	Soils	Soils have moderate filtration/runoff potential (Hydrologic soil Group B) (Ref# 51,63)
	Topography	311' to 352' range; 317' mean. (Ref# 47)
	FEMA	62.4 acres in 100 year floodplain, none in floodway. Flooding controlled by the dam at the outlet. (Ref# 19)
	Terrestrial Vegetation	Limited to residential landscaping and lawn. One parcel at the north end of the lake is shrub and tree vegetation – ownership appears to be private. No real habitat or quality plant communities present. (Ref# 8,20,71)
Lacustrine Function	Alluvial fans	None indicated (Ref# 8,71)
	Aquatic substrate type	Basin 1: 37% gravel, 25% sand, 19% mud, 13% cobble, 6% bedrock (Ref# 66)
	In-water structures	Basin 1: docks average 3 per 100 meters (Ref# 8,18,43,66,71)
	Bulkheads	Basin 1: 30% (Ref# 8,18,66,71)

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	DOE 303(d)	Category 5 Polluted Waters for dissolved oxygen in Basin 1. Category 1 for testing standards met for mercury – some areas of reach Category 5 for mercury. Silver Beach Creek Category 5 listing for fecal coliform. (Ref# 89)
	Toxic sites/land fills	None indicated (Ref# 80)
	Invasive plant cover	No data
	Bathymetry	Basin 1: max depth 20.25 meters (Ref# 66,67)
Historic & Cultural	Historic aerials	No data
	Archeological sites	None indicated (Ref# 77)
	Historic sites	None indicated (Ref# 77)
	Parks & public access	0.5 acres of open space. A few neighborhood parks or parcels owned by neighborhood associations' are located in this reach. (Ref# 33,34,36,48,54)
Function Analysis	Reach Function	
	• Hydrologic	Impaired. The hydroperiod of the lake has been reversed, and the lake level is controlled through inputs from the diversion of water from the Nooksack River and via a control dam at the outlet (Whatcom Creek).
	• Shoreline Vegetation	Impaired. Areas of natural shoreline vegetation are absent.
	• Habitat	Impaired. Areas of natural shoreline habitat are absent.
	Limiting Factors	<ul style="list-style-type: none"> • Dense residential development within the entire SMA • Real estate values • Water quality • Impaired shoreline vegetation and habitat
	Functions	None
	• Sustainable	All three functions are indicated as not sustainable.
• Not Sustainable		
Priority Actions	<ul style="list-style-type: none"> • Water quality improvement • Stormwater treatment and detention 	
Current Enhancement Projects	None recorded for the reach	
Preservation/Enhancement Opportunities	None	
		(Ref# 24,66,69,70,71,89 for above)