

SHORELINE AREA (Reach Code):Padden 2 – Fairhaven Park
REACH NUMBER: 22

Land Use	Current Land Use	Majority is in public use with well forested riparian areas and foot paths along Padden Creek. This reach passes through Fairhaven Park. Residential and small amount of commercial at fringes of SMP areas. Residential use is more intense at west end of the reach. (Ref# 8,37,71)
	Zoning	20.2 acres public, 12.3 acres residential, 3.0 acres commercial (Ref# 54,104)
Potential Species Present	Wildlife species	Urban species typical of urban green spaces (Ref# 69,70,105)
	Fish species	Migration, rearing and spawning habitat documented for Chum and Fall Chinook salmon. Migration and rearing habitat for sea-run cutthroat, Coho and Winter Steelhead. Bull trout presence presumed, but not documented. (Ref# 61,69,70,94,105)
	PHS species/habitat	Riparian habitat and wetlands. No listed wildlife species. (Ref# 24,92,93,105)
	TSE species	Bull trout (presumed) (FT), Puget Sound Coho (FCo), Chinook (FT & SC), Cutthroat (FCo). (Ref# 92,93,105)
	Invasive wildlife/fish species	Grey squirrels well established in riparian corridor. (Ref# 71)
Physical Environment	Acres of land in reach	35.6 acres total with 34.3 acres of land and 1.3 acres of water (Ref# 13)
	Aquatic vegetation	No data
	Slope	Slope class mostly at 0-5%, with ravine side slopes of 20 to 35%. (Ref# 21)
	Buildings	59 buildings covering 1.8 total acres of land (Ref# 16)
	Culverts/stormwater utilities	3 culverts (2 under sewer main/trail, 1 under Fairhaven Parkway). No detention facilities indicated. Sewer line parallels Padden Creek. (Ref# 30,40,41,42)
	Geology	Continental sedimentary or rocks. (Ref# 21,103)
	Tributary Creeks	None indicated (Ref# 8,57,59,71)
	Wetlands	(Ref# 11,52)
	Impervious surface	47% pervious, 29% semi pervious, 24% impervious (Ref# 12)
	Invasive plant species	Traveler' Joy, bittersweet nightshade, English ivy in riparian zone and Himalayan blackberry present in many areas, purple loosestrife upstream in vicinity of Happy Valley Park. (Ref# 71,100)
	Roads/transportation	Fairhaven Parkway, 12 th Street (bridge), 10 th St., Wilson, Donovan, and Chuckanut. Total of 0.7 miles or 1.9 acres of roads. (Ref# 14,35,36,44,45,46)
	Soils	Infiltration rates: 33.9 acres very slow with high runoff potential (Hydrologic soil Group D), 1.6 acres moderate (Group B). Erosion potential: 35.6 acres slight risk. (Ref# 51,63).
	Topography	38' to 133' range; 91' mean. (Ref# 47)
	FEMA	6.4 acres in 100 year floodplain, 2.9 acres in floodway (Ref# 19)
	Terrestrial Vegetation	Well developed mixed deciduous forest in ravine. Urban at top of bank until Fairhaven Park. West of 12 th Street Bridge buffer width averages 100', east of bridge close to 200'. (Ref# 8,20,71)
Riparian Function	DOE 303(d)	Category 5 exceeds fecal coliform limits (cob), Category 4 Fish passage impediment at culvert under Fairhaven Pkwy. (WDFW), Category 2 exceeded Diazinon and Chlorothalonil limits during one sampling in 2001. (Ref# 89)
	Channel confinement	Unconfined (Ref# 22,23)
	Channel gradient	1 to 2% (Ref# 22,23)
	Channel migration zone	None identified (Ref# 22,23,94)
	Creosote structures	No data (Ref# 8,71)
	Fish passage blockages	Long culvert under Fairhaven Pkwy. (Ref# 15,94)
	In-water structures	2 fish ladders – wood weirs and one concrete ladder (Ref# 8,18,43,71)

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	LWD presence	No data; low to moderate from qualitative assessment from walkover (Ref# 10,71)
	Non-point source pollution	No data
	Point source pollution	No data
	Riffle/pool analysis	No data
	Substrate type	4% sand; 7% fine gravel; 26% coarse gravel; 62% cobble; 2% boulder (Ref# 86)
	Invertebrate assessment	Moderate diversity at Fairhaven Park (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	3.4 acres public, 20 percent of reach in public access, 1.1 miles of public trail in reach (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>Impaired, flashy hydrology.</p> <p>Slightly Impaired, invasive species present and riparian buffer width is reduced in the lower reach.</p> <p>Slightly Impaired, invasive species have decreased habitat structure.</p> <ul style="list-style-type: none"> Water quality is slightly impaired due to upstream water quality problems Habitat quality is limited by invasive plant cover and single age class Flashy hydrology Long culvert under Fairhaven Parkway and beyond. <p>Shoreline vegetation and habitat is sustainable, but impaired.</p> <p>Hydrology, if upstream development increases.</p> <ul style="list-style-type: none"> Control of invasive, non-native plant species. Fish passage improvements including day-lighting culvert along Fairhaven Parkway. <p>Ivy control by the Greenways program.</p> <ul style="list-style-type: none"> Enhancement of riparian vegetation Restoration of in-stream habitat diversity <p>(Ref# 15,24,61,69,70,71,89,94 for above)</p>