

SHORELINE AREA (Reach Code): Marine 10

REACH NUMBER: 36

Land Use	Current Land Use	Currently mostly not developed. One industrial business present and developing park area around Taylor street dock in reach. (Ref# 8, 54, 71)
	Zoning	4.8 acres water, 2.3 acres industrial, 2.1 acres commercial, 0.5 acres public (Ref# 54)
Potential Species Present	Wildlife species	1.8 acres of pinneped habitat; area of significant importance and vulnerability for water birds (winter diving bird concentrations); and sea haul outs indicated offshore (logs). (Ref# 3, 70, 71, 105)
	Fish species	Sand lance spawning along entire reach, surf smelt at northern extent of reach. Pandalid shrimp offshore, demersal groundfish off-shore. Presumed presence of Coho and Bull trout. (Ref# 3, 70, 71, 105)
	PHS species/habitat	Importance and vulnerability for water birds (winter diving bird concentrations)/ sea haul outs indicated offshore (logs). Pigeon guillemot nesting within reach – nests may have been destroyed with Taylor Street dock work. (Ref# 3, 70, 71, 105)
	TSE species	Chinook in bay (FT & SC). Coho (FCo) and Bull trout (FT) presumed. (Ref# 92, 93)
	Invasive wildlife/fish species	No data
Physical Environment	Acres of land in reach	9.8 acres total with 4.5 acres of land and 5.3 acres of water. (Ref#13)
	Aquatic vegetation	1.9 acres of green algae (Ref# 97, 98)
	Slope	20-100% slopes dominate most of the shoreline; 0-5% slopes present in the southern extent of the reach. (Ref# 47, 103)
	Buildings	1 building covering 0.29 acres (Ref# 16)
	Culverts/stormwater utilities	One stormwater outfall in reach. No retention basins. (Ref# 40, 41, 42)
	Geology	Continental sedimentary deposits and alluvium. Land slide hazard area indicated on slopes 15-35% or greater. A small seismic hazard area (man-made fill) is also present. (Ref# 21, 51, 63)
	Tributary Creeks	None indicated (Ref# 8, 42, 71)
	Impervious surface	50% impervious, 40% semi-pervious, 9% pervious (Ref# 12)
	Invasive plant species	No data
	Roads/transportation	0.2 miles rail road (Ref# 34, 44, 46)
	Soils	Infiltration rates: 4.6 acres moderate, 2.1 acres very slow with high runoff potential. Erosion potential: 5.2 acres severe risk, 4.6 slight risk. (Ref# 51, 63)
	Topography	Range 0 to 51'; mean 13' (Ref# 47)
	FEMA	5.3 acres in floodplain, no floodway in reach (Ref# 19)
	Terrestrial Vegetation	Mix of native and non-native shrub, lawn and ornamental plantings (Ref# 8, 71)
Marine Aquatic Function	Aquatic substrate type	1.8 acres mixed fines, 1.4 acres mixed coarse, 0.8 acres artificial (Ref# 3, 99)
	Creosote structures	None identified (Ref# 71, 73, 74, 99)
	In-water structures	None (Ref# 71, 73, 74, 99)
	Bulkheads	Rock bulkhead along entire reach – shoreline is predominately bedrock (Ref# 71, 73, 74, 99)
	DOE 303(d)	Inner Bay, no data. Outer Bay – Category 5 for dissolved O2, Category 2 for pH, Category 1 for Fecal coliform, pH, and temperature. (Ref# 81)
	Toxic sites/land fills	Exxon Mobil Oil Corp site (908 10 th St). Sediments: (confirmed) EPA priority pollutants, PAH's (suspected) petroleum products, non-halogenated solvents. Groundwater (suspected) petroleum, non-halogenated solvents, and EPA priority pollutants. (Ref# 79, 80)
	Bathymetry	-11 to 0.0' range; -1.1 mean (Ref# 25, 31)
	Wave energy	4.0 acres partially enclosed (Ref# 3, 99)
	Point source pollution	No data

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	Waterways/dredge beds	None indicated (Ref# 3, 99)
	Drift cells	None indicated (Ref# 3, 99)
Marine Foreshor	Beach characterization	No data
	High-Low tide lines	1.0 acre
	Erosion/accretion zones	No data
Historic & Cultural	Historic aerials	See waterfront futures website http://www.waterfrontfutures.org/learnmore/lm_photo_gallery.htm (Ref# 99)
	Archeological sites	No data
	Historic sites	None indicated (Ref# 77)
	Parks & public access	North end of reach extends into the Park area associated with Taylor street dock (Ref# 33, 34, 36, 48)
Function Analysis	Reach Function	Ref# for following 1, 2, 5, 69, 70, 71)
	<ul style="list-style-type: none"> Hydrologic Shoreline Vegetation Habitat 	<p>Slightly impaired by rip rap associated with railroad tracks.</p> <p>Slightly impaired by invasive plant cover</p> <ul style="list-style-type: none"> Terrestrial – moderate function Intertidal – slightly impaired by rip rap Shallow water and deep water habitat – moderate to high function. High function for forage fish spawning habitat and seasonal offshore winter bird habitat.
	Limiting Factors	<ul style="list-style-type: none"> Rip rap associated with railroad tracks Himalayan blackberry dominance of shoreline vegetation Lack of connectivity for terrestrial wildlife species. Existing zoning encourages high intensity uses
	Functions	<ul style="list-style-type: none"> Sustainable Not Sustainable
	Priority Actions	All functions sustainable with enhancements. None identified
	Current Enhancement Projects	See preservation/ enhancement section. Action # 23 was rated as a high priority action. (Ref# 73)
Preservation/Enhancement Opportunities	None identified	
		<ul style="list-style-type: none"> Remove fill and associated rip rap for a small in-water area at south end of reach (BBDP action # 23). (Ref# 73) Control of Himalayan blackberry along shoreline and replacement with native shrub and tree species. (Ref# 71)