

SHORELINE AREA (Reach Code): Marine 15

REACH NUMBER: 41

Land Use	Current Land Use	Residential use on top of bluff, undeveloped shrubby bluff and lagoon (Ref# 8, 54, 71)
	Zoning	12.5 acres residential, 12.4 acres water (Ref# 54)
Potential Species Present	Wildlife species	18.8 acres mustelid, 5.2 acres pinneped (Ref# 3, 70, 71, 105)
	Fish species	High shrimp and crab densities offshore. Presumed presence of Coho and Bull trout. (Ref# 3, 70, 71, 105)
	PHS species/habitat	Harlequin duck concentration area, diving bird concentration area, rocky substrate shorebird concentration area. (Ref# 3, 70, 71, 105)
	TSE species	Chinook offshore (FT & SC). Coho (FCo) and Bull trout (FT) presumed. (Ref# 92, 93, 105)
	Invasive wildlife/fish species	No data
Physical Environment	Acres of land in reach	24.9 acres total with 10.4 acres of water and 14.5 acres of water (Ref# 13)
	Aquatic vegetation	2.8 acres eelgrass, 1.1 acres mixed algae, 0.4 acres marsh, 0.1 acres brown algae (Ref# 97, 98)
	Slope	20-70% slopes dominate the shoreline of the lagoon. (Ref# 47, 103)
	Buildings	13 buildings covering 0.63 total acres (Ref# 16)
	Culverts/stormwater utilities	Sewer mains present in reach. No culverts or additional facilities indicated. (Ref# 40, 41, 42)
	Geology	Continental sedimentary deposits or bedrock. Land slide hazard area is indicated on slopes 15-35% or greater. (Ref# 21, 51, 63)
	Tributary Creeks	None indicated (Ref# 8, 42, 71)
	Impervious surface	37% semi-pervious, 34% impervious, 29%pervious (Ref# 12)
	Invasive plant species	No data
	Roads/transportation	0.3 miles rail (Ref# 34, 44, 46)
	Soils	Infiltration rates: 7.7 acres very slow and high runoff potential (Hydrologic soil Group D), 2.5 acres moderate (Group B). Erosion potential: 15.0 acres severe risk, 9.9 acres slight risk. (Ref# 51, 63)
	Topography	0' to 81' range; mean 15' (Ref# 47)
	FEMA	16.4 acres in 100 year floodplain, none in floodway (Ref# 19)
	Terrestrial Vegetation	Mixed landscaped areas and mixed native shrub/forest on bluffs, small amount of salt marsh in lagoon. (Ref# 8, 71)
Marine Aquatic Function	Aquatic substrate type	5.8 acres mud, 2.6 acres artificial, 1.0 acres mixed coarse (Ref# 3, 99)
	Creosote structures	Possible treated piles under rail crossing in lagoon. (Ref# 71, 73, 74, 99)
	In-water structures	Rail bed crossing creating lagoon. One old dock structure at north end. Many wooden stair structures down bank to water from houses(Ref# 71, 73, 74, 99)
	Bulkheads	Rock bulkhead along rail crossing, natural shoreline inside lagoon. Rail bed – rock rip rap on west side. Other shores of lagoon unarmored (Ref# 71, 73, 74, 99)
	DOE 303(d)	No data (Ref# 81)
	Toxic sites/land fills	None indicated (Ref# 79, 80)
	Bathymetry	-35.0' to 0.00 range; -7.5' mean (Ref# 25, 31)
	Wave energy	6.8 acres lagoon, 2.7 acres open water (Ref# 3, 99)
	Point source pollution	No data
	Waterways/dredge beds	No data
	Drift cells	No data

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Marine Foreshore	Beach characterization	No data
	High-Low tide lines	3.5 acres beach, 4.1 in railroad lagoon
	Erosion/accretion zones	No data
Historic & Cultural	Historic aerials	None available
	Archeological sites	No data
	Historic sites	None indicated (Ref# 77)
	Parks & public access	None (Ref# 33, 34, 36)
Function Analysis	Reach Function	(Ref# for the following 1, 2, 5, 69, 70, 71)
	<ul style="list-style-type: none"> Hydrologic Shoreline Vegetation Habitat 	Slightly impaired to impaired by railroad bed Slightly impaired by canopy removal for views and invasive plants
	Limiting Factors	<ul style="list-style-type: none"> Terrestrial – slightly impaired from railroad and canopy removal Intertidal Habitat – slightly impaired to impaired by railroad bed and berm across lagoon. Restriction by rail crossing reduces tidal flushing. Shallow water and deepwater habitat – Slightly impaired for shallow water by rail crossing at lagoon. Unimpaired for deepwater habitat.
	Functions	<ul style="list-style-type: none"> Railroad crossing at lagoon. Removal of canopy in shoreline vegetation for views.
	<ul style="list-style-type: none"> Sustainable Not Sustainable 	All functions sustainable and can be improved with enhancements None
	Priority Actions	See preservation/ enhancement section. Action # 28 was medium and Action #31 was rated as a low priority. (Ref# 73)
	Current Enhancement Projects Preservation/Enhancement Opportunities	None identified <ul style="list-style-type: none"> Modify existing structure under railroad crossing to increase opening (BBDP action # 28). (Ref# 73) Conserve this marine reach because of multiple functions and difficult to replace (BBDP action # 31) (Ref# 73)