

Skagit Bay/Whidbey Basin

SUMMARY

Skagit Bay/Whidbey Basin is characterized by a high chlorophyll-a and moderate macroalgal symptom expressions. The secondary symptoms, dissolved oxygen, nuisance/toxic blooms and SAV all have low symptom expressions resulting in an overall eutrophic condition of moderate. It is not possible to determine changes since the 1999 assessment.

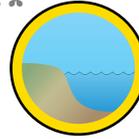
Influencing Factors

Nutrient load is unknown and influencing factors cannot be calculated.



Eutrophic Conditions **

Primary symptoms high but problems with more serious secondary symptoms still not being expressed.



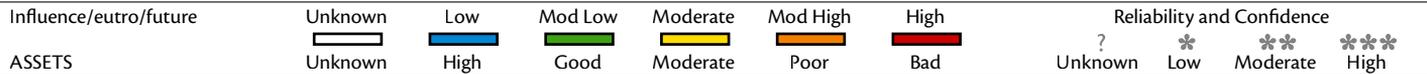
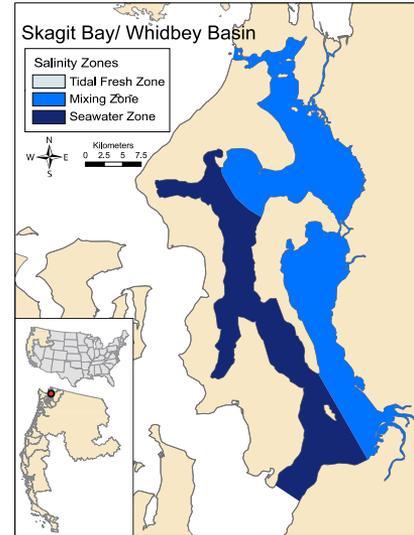
Future Outlook

An Unknown Future Outlook expression will occur if the Expected Changes In Nutrient Load by 2020 is Unknown.

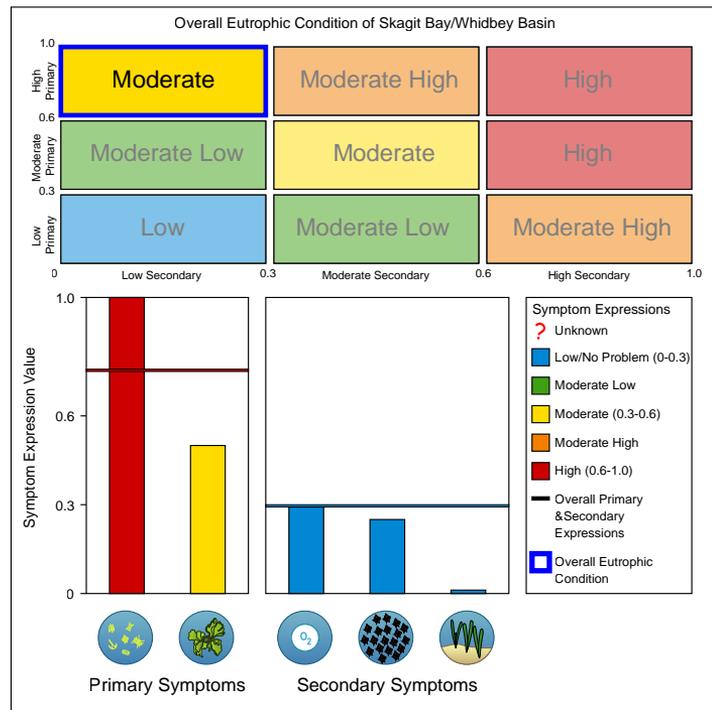
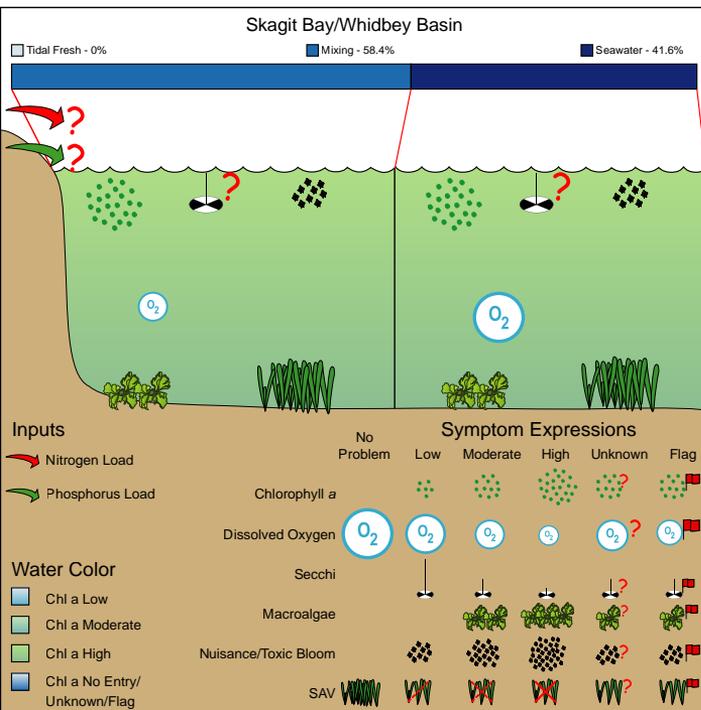


ASSETS Rating

Assessment of Estuarine Trophic Status based on the three factors evaluated in NEEA.



EUTROPHIC CONDITION



WATERSHED AND ESTUARY CHARACTERISTICS

Estuary		Landuse / Population		Watershed Details / Input Loads	
Area (km ²)	622	Urban (km ²)	536 (3.8%)	Area (km ²)	15,432
Tidal fresh zone area (km ²)	0	Agriculture (km ²)	539 (3.8%)	Mean elevation (m)	860
Mixing zone area (km ²)	363	Forest (km ²)	12,352 (87.6%)	Max. elevation (m)	3,207
Saltwater zone area (km ²)	259	Wetland (km ²)	44 (0.3%)	Watershed: estuary ratio	24.8
Volume (1,000 x m ³)	28,842,140	Range (km ²)	622 (4.4%)	TSS (tonne y ⁻¹)	356,000
Depth (m)	46.37	Barren (km ²)	0 (0%)	DIN (kg y ⁻¹)	Unknown
Tide Height (m)	2.16	Total (km ²)	14,092 (0%)	DIP (kg y ⁻¹)	Unknown
Residence Time (d)	147	Population	502,420	TSS/est. area (tonne km ⁻² y ⁻¹)	572
		Popn: est. area ratio	808	DIN/est. area (kg km ⁻² y ⁻¹)	Unknown
				DIP/est. area (kg km ⁻² y ⁻¹)	Unknown