

Hampton Harbor

SUMMARY

Hampton Harbor has an overall eutrophic condition of moderate due to low chlorophyll-a, high macroalgae and low secondary symptoms. There are no low dissolved oxygen problems, but there are some infrequent blooms nuisance/toxic algae. Hampton Harbor has increased slightly in eutrophic condition 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.



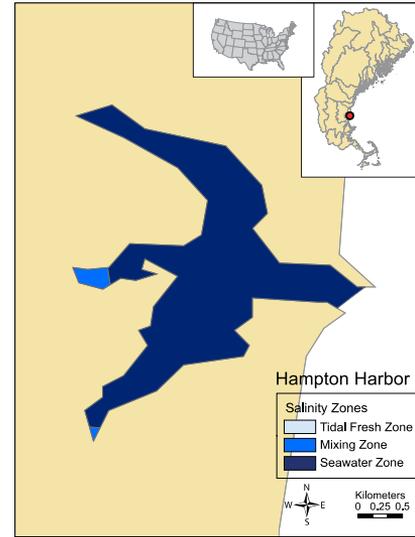
Future Outlook

Nutrient related symptoms observed in the estuary are likely to worsen only minimally.



ASSETS Rating

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



Influence/eutro/future

Unknown

Low

Mod Low

Moderate

Mod High

High

Reliability and Confidence

ASSETS

Unknown

High

Good

Moderate

Poor

Bad

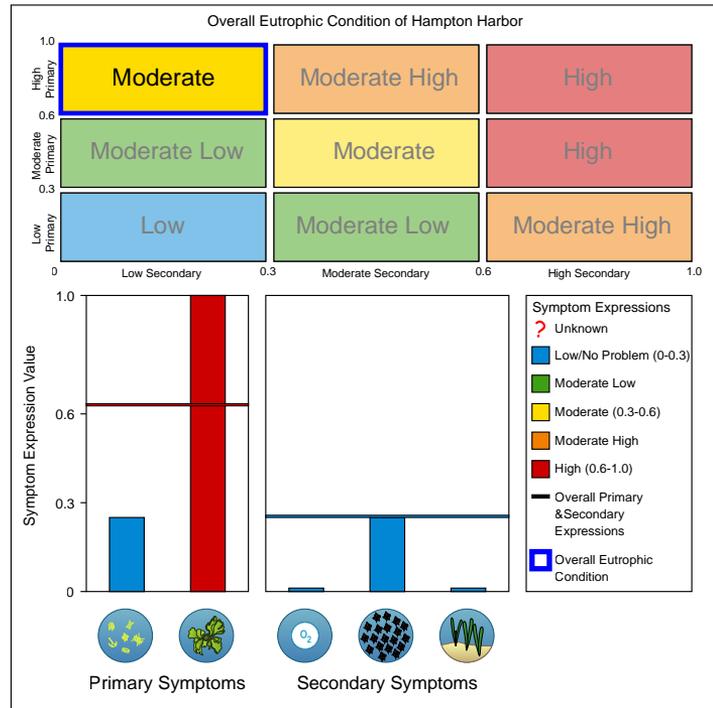
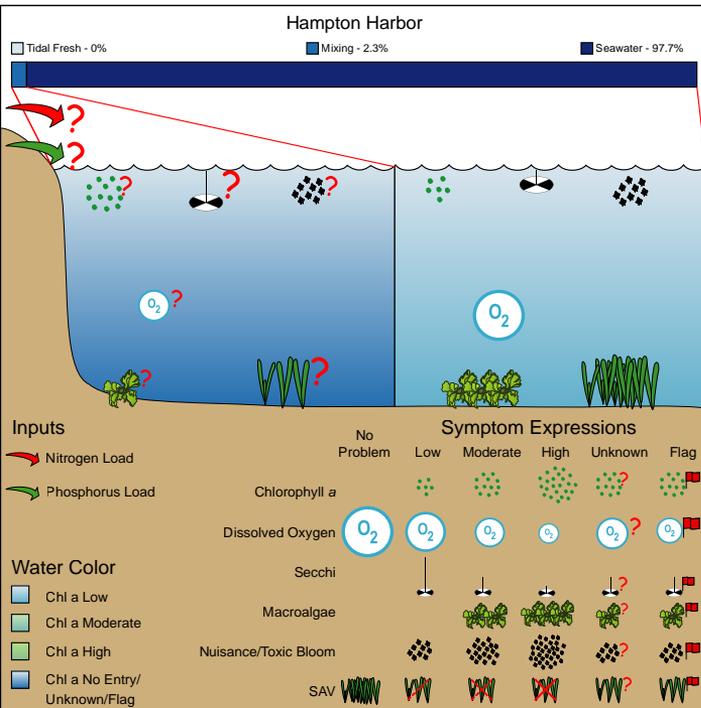
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High

EUTROPHIC CONDITION



WATERSHED AND ESTUARY CHARACTERISTICS

Estuary	Landuse / Population		Watershed Details / Input Loads		
Area (km ²)	3	Urban (km ²)	21 (16.7%)	Area (km ²)	124
Tidal fresh zone area (km ²)	0	Agriculture (km ²)	21 (16.7%)	Mean elevation (m)	18
Mixing zone area (km ²)	<1	Forest (km ²)	65 (52.1%)	Max. elevation (m)	60
Saltwater zone area (km ²)	3	Wetland (km ²)	18 (14.6%)	Watershed: estuary ratio	41.3
Volume (1,000 x m ³)	2,610	Range (km ²)	0 (0%)	TSS (tonne y ⁻¹)	3,540
Depth (m)	0.87	Barren (km ²)	0 (0%)	DIN (kg y ⁻¹)	Unknown
Tide Height (m)	2.53	Total (km ²)	124 (0%)	DIP (kg y ⁻¹)	Unknown
Residence Time (d)	0	Population	20,089	TSS/est. area (tonne km ⁻² y ⁻¹)	1,180
		Popn: est. area ratio	6,696	DIN/est. area (kg km ⁻² y ⁻¹)	Unknown
				DIP/est. area (kg km ⁻² y ⁻¹)	Unknown