

Great South Bay

SUMMARY

Great South Bay's moderate high eutrophic expression has not changed since the last survey. The bay is characterized by high chlorophyll-a symptom expression and high macroalgal abundance. There are no dissolved oxygen problems, but some nuisance/toxic algal blooms. Changes in SAV are unknown.

Influencing Factors

Nutrient load is unknown and influencing factors cannot be calculated.



Eutrophic Conditions **

Primary symptoms high and substantial secondary symptoms becoming more expressed, indicating potentially serious problems.



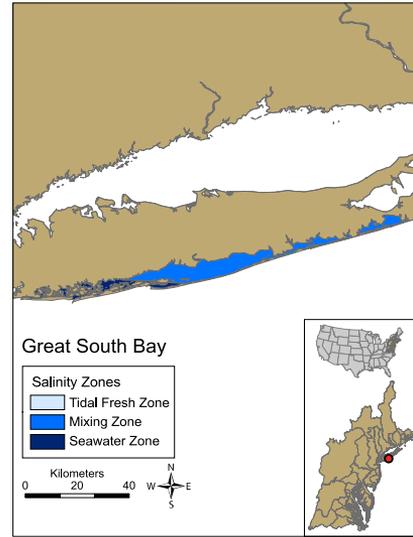
Future Outlook

Nutrient related symptoms observed in the estuary will most likely stay the same.

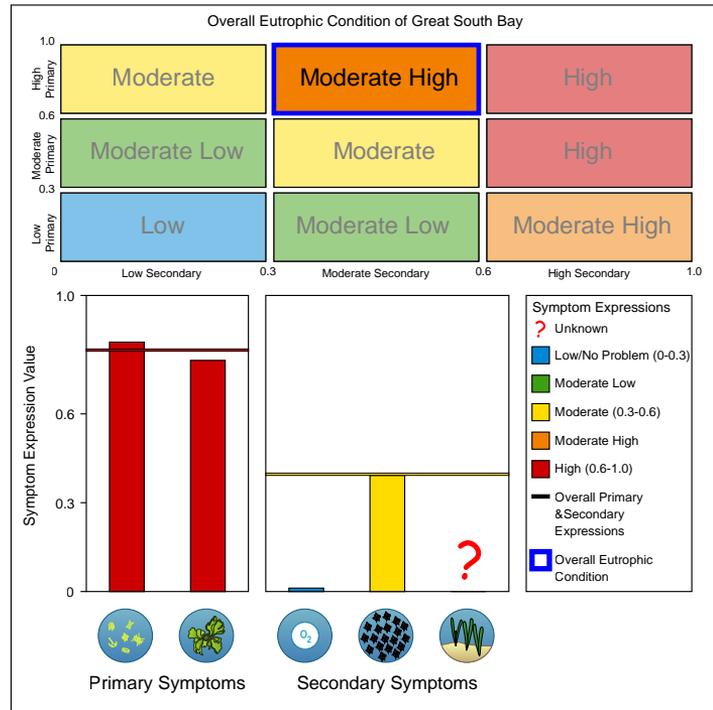
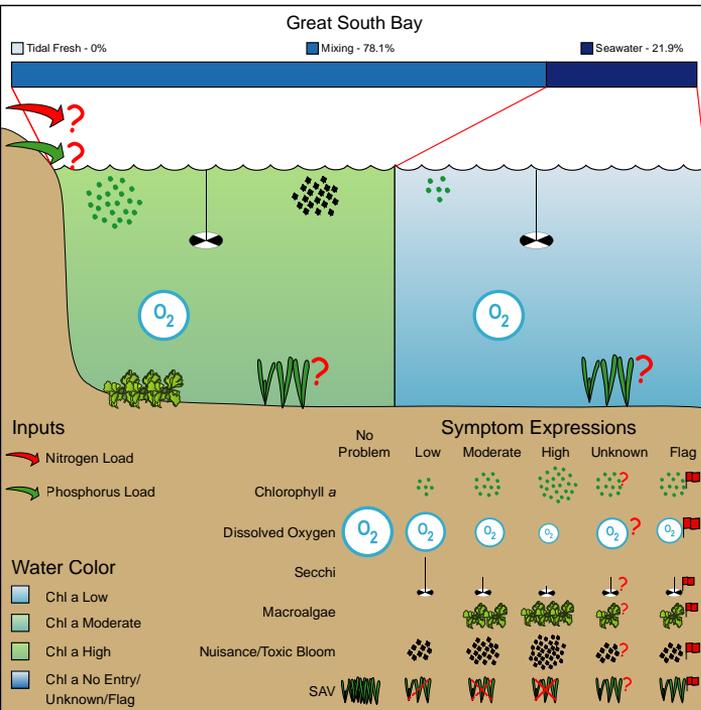


ASSETS Rating

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)	383	Urban (km ²)	1,557 (92.5%)	Area (km ²)	1,733
Tidal fresh zone area (km ²)	0	Agriculture (km ²)	16 (0.9%)	Mean elevation (m)	27
Mixing zone area (km ²)	299	Forest (km ²)	70 (4.2%)	Max. elevation (m)	101
Saltwater zone area (km ²)	84	Wetland (km ²)	41 (2.5%)	Watershed: estuary ratio	4.5
Volume (1,000 x m ³)	421,300	Range (km ²)	0 (0%)	TSS (tonne y ⁻¹)	153,000
Depth (m)	1.10	Barren (km ²)	0 (0%)	DIN (kg y ⁻¹)	Unknown
Tide Height (m)	0.57	Total (km ²)	1,683 (0%)	DIP (kg y ⁻¹)	Unknown
Residence Time (d)	2	Population	2,084,075	TSS/est. area (tonne km ⁻² y ⁻¹)	400
		Popn: est. area ratio	5,441	DIN/est. area (kg km ⁻² y ⁻¹)	Unknown
				DIP/est. area (kg km ⁻² y ⁻¹)	Unknown