

# Muscongus Bay

## SUMMARY

Data were unavailable to assess the eutrophic condition of Muscongus Bay. However, in the 1999 assessment, the bay was characterized by moderate low overall eutrophic conditions on account of moderate chlorophyll-a symptom expressions and low expressions of low dissolved oxygen and nuisance/toxic blooms. Macroalgae was not a problem in this bay.

## Influencing Factors

Nutrient load is unknown and influencing factors cannot be calculated.



## Eutrophic Conditions \*

An Unknown Overall Eutrophic Condition expression will occur if either the Primary or Secondary overall symptom expression is Unknown.



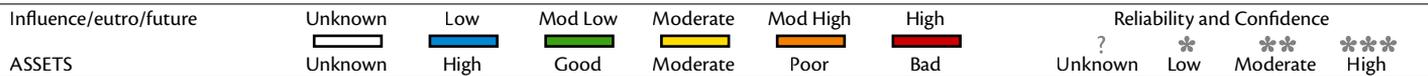
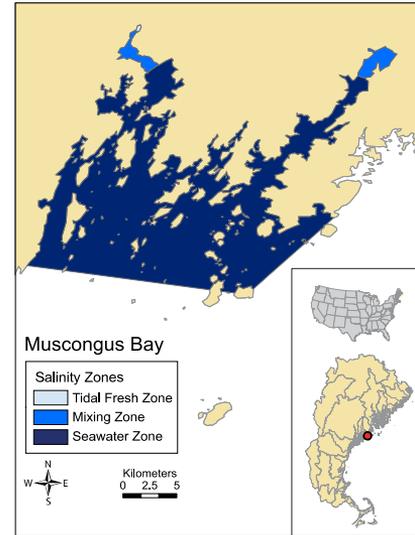
## Future Outlook

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

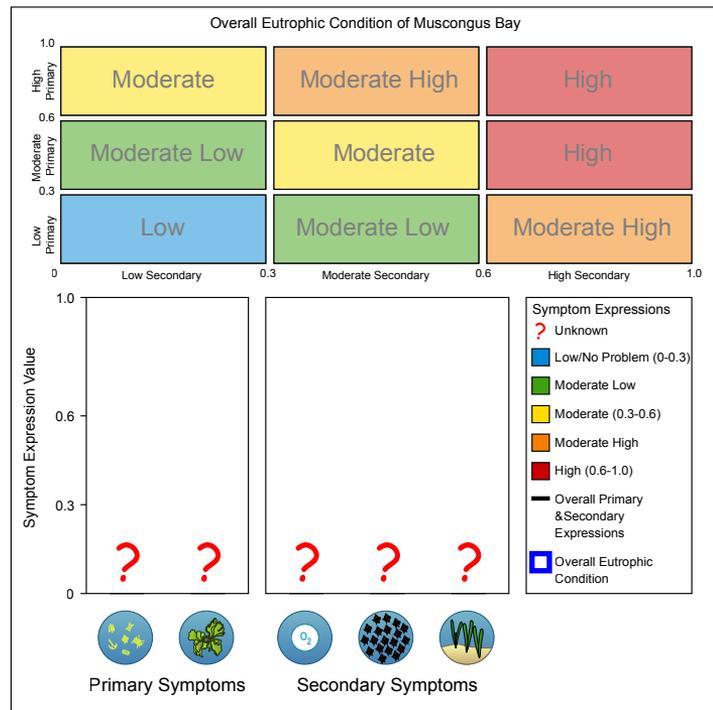
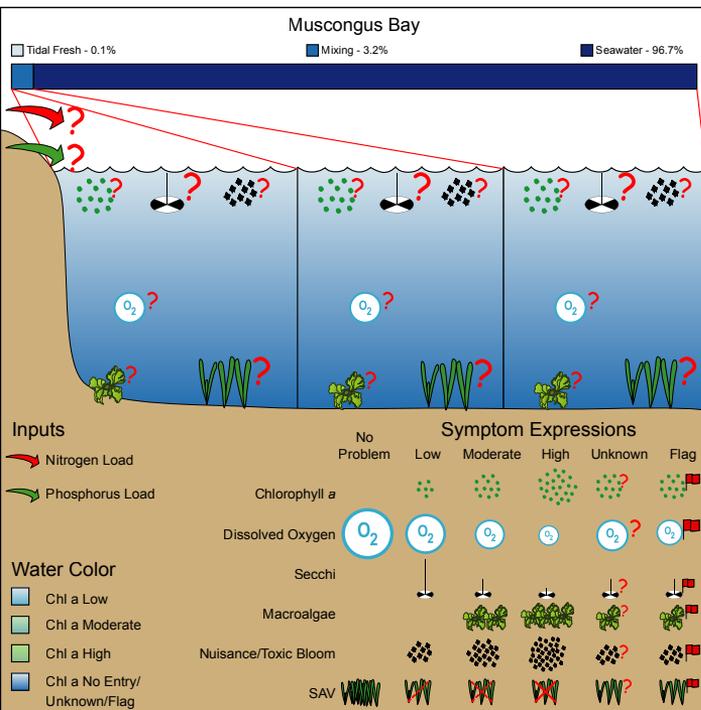


## ASSETS Rating

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 <sup>2</sup> )	201	Urban (km <sup>2</sup> )	26 (2.7%)	Area (km <sup>2</sup> )	1,109
Tidal fresh zone area (km <sup>2</sup> )	<1	Agriculture (km <sup>2</sup> )	111 (11.5%)	Mean elevation (m)	82
Mixing zone area (km <sup>2</sup> )	6	Forest (km <sup>2</sup> )	787 (81.3%)	Max. elevation (m)	318
Saltwater zone area (km <sup>2</sup> )	194	Wetland (km <sup>2</sup> )	23 (2.4%)	Watershed: estuary ratio	5.5
Volume (1,000 x m <sup>3</sup> )	2,468,280	Range (km <sup>2</sup> )	21 (2.1%)	TSS (tonne y <sup>-1</sup> )	35,500
Depth (m)	12.28	Barren (km <sup>2</sup> )	0 (0%)	DIN (kg y <sup>-1</sup> )	Unknown
Tide Height (m)	2.78	Total (km <sup>2</sup> )	969 (0%)	DIP (kg y <sup>-1</sup> )	Unknown
Residence Time (d)	10	Population	25,947	TSS/est. area (tonne km <sup>-2</sup> y <sup>-1</sup> )	177
		Popn: est. area ratio	129	DIN/est. area (kg km <sup>-2</sup> y <sup>-1</sup> )	Unknown
				DIP/est. area (kg km <sup>-2</sup> y <sup>-1</sup> )	Unknown