

# York River

## SUMMARY

The York River is characterized by a high chlorophyll-a symptom expression and moderate macroalgal symptom expression, leading to some dissolved oxygen problems and moderate level problems with nuisance/toxic blooms. There is little loss of SAV. There is a high variability in conditions among tidal fresh, mixing and seawater zones.

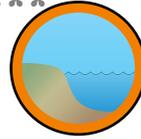
## Influencing Factors

Moderate to high nitrogen input and moderate to high susceptibility (low ability for dilution and flushing of nutrients).



## Eutrophic Conditions \*\*\*

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



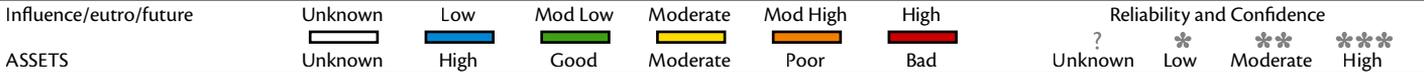
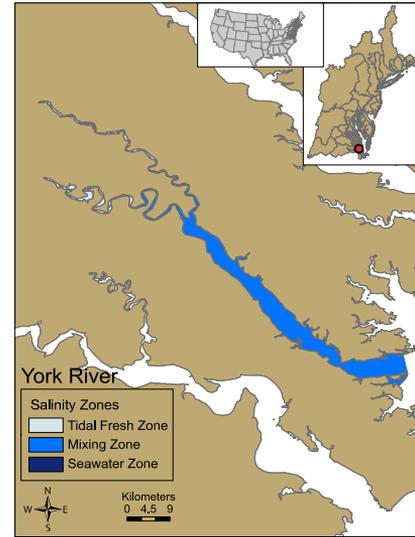
## Future Outlook

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

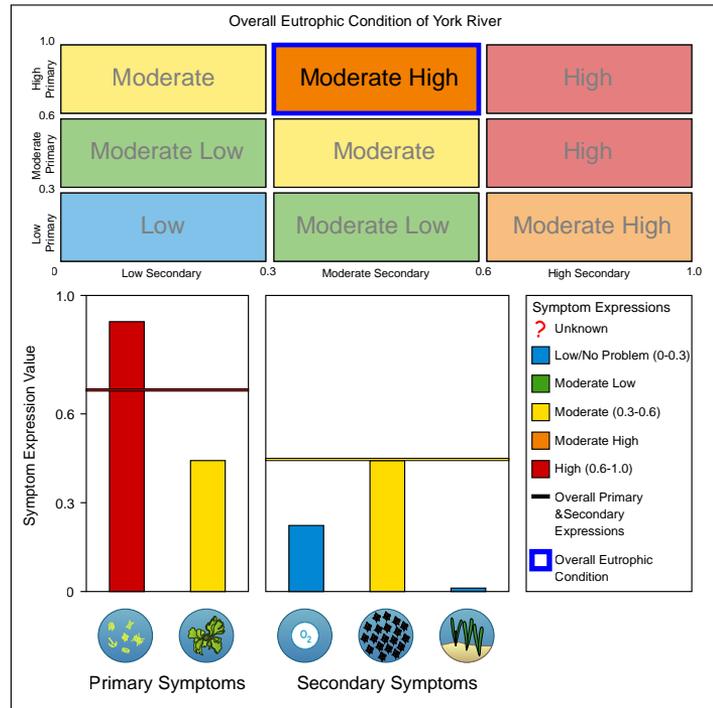
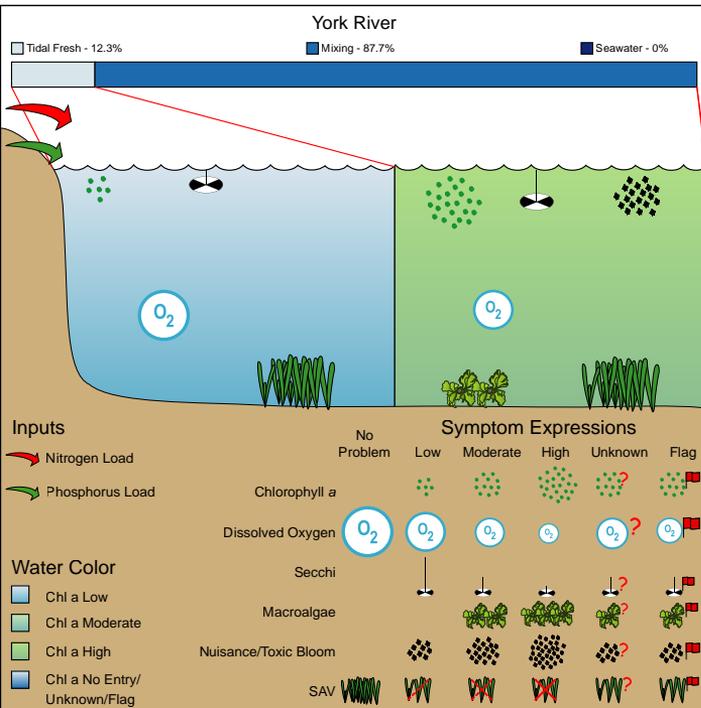


## ASSETS Rating

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 <sup>2</sup> )	206	Urban (km <sup>2</sup> )	306 (4.6%)	Area (km <sup>2</sup> )	6,708
Tidal fresh zone area (km <sup>2</sup> )	25	Agriculture (km <sup>2</sup> )	1,595 (24.2%)	Mean elevation (m)	65
Mixing zone area (km <sup>2</sup> )	181	Forest (km <sup>2</sup> )	4,512 (68.5%)	Max. elevation (m)	392
Saltwater zone area (km <sup>2</sup> )	0	Wetland (km <sup>2</sup> )	171 (2.6%)	Watershed: estuary ratio	32.6
Volume (1,000 x m <sup>3</sup> )	786,920	Range (km <sup>2</sup> )	0 (0%)	TSS (tonne y <sup>-1</sup> )	148,000
Depth (m)	3.82	Barren (km <sup>2</sup> )	0 (0%)	DIN (kg y <sup>-1</sup> )	1,378,692
Tide Height (m)	0.82	Total (km <sup>2</sup> )	6,584 (0%)	TP (kg y <sup>-1</sup> )	196,099
Residence Time (d)	11	Population	163,697	TSS/est. area (tonne km <sup>-2</sup> y <sup>-1</sup> )	718
		Popn: est. area ratio	795	DIN/est. area (kg km <sup>-2</sup> y <sup>-1</sup> )	6,693
				TP/est. area (kg km <sup>-2</sup> y <sup>-1</sup> )	952