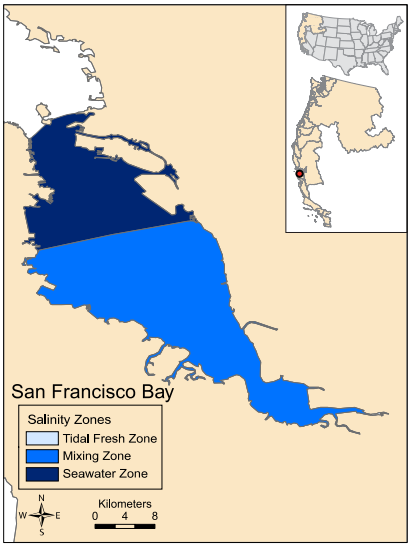
San Francisco Bay

SUMMARY

San Francisco Bay South is characterized by an overall high symptom expression for chlorophyll-a and low symptom expression for dissolved oxygen. There are no problems with macroalgae or SAV. Nuisance/toxic blooms are a moderate problem that occur for weeks every year when the wind stops blowing.



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

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

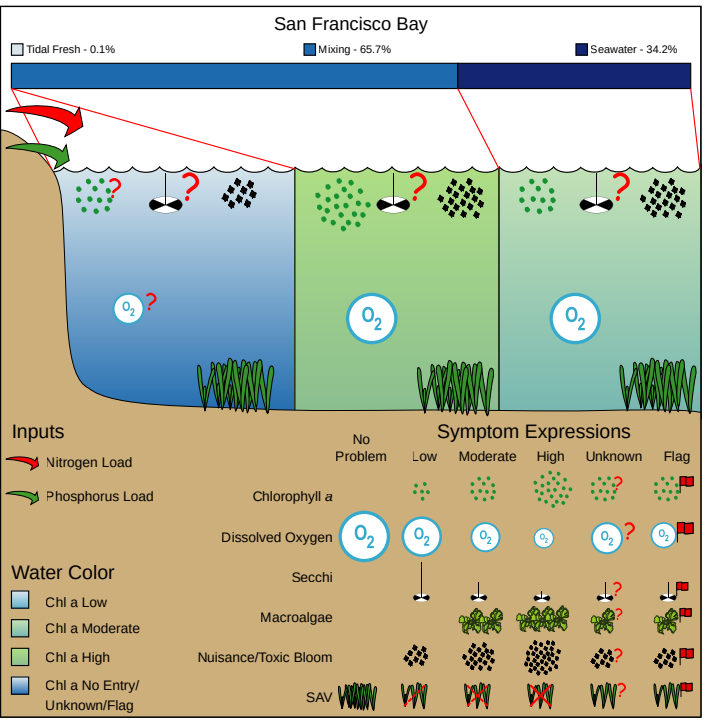
ASSETS Rating

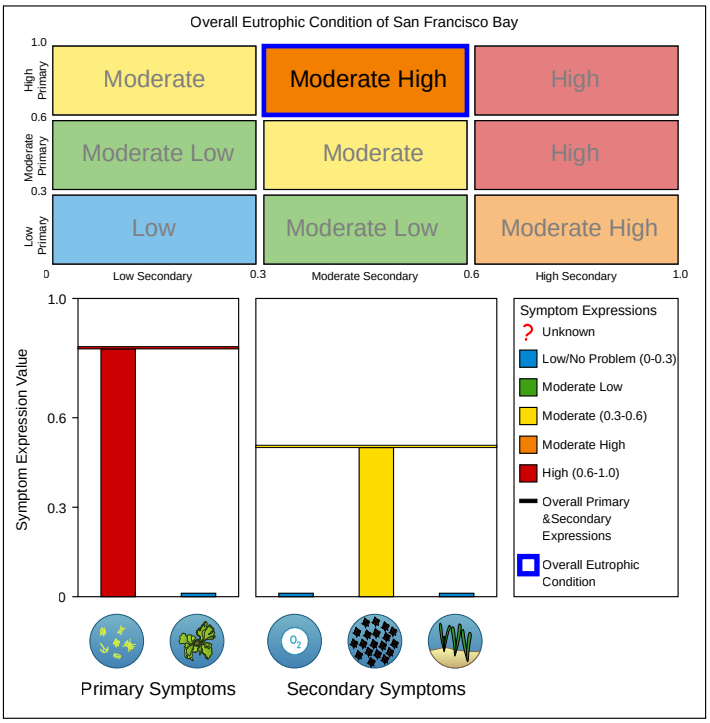
Assessment of Estuarine Trophic Status based on the three factors evaluated in NEEA.

Influence/eutro/future	Unknown	Low	Mod Low	Moderate	Mod High	High
ASSETS	Unknown	High	Good	Moderate	Poor	Bad

Reliability and Confidence			
? Unknown	* Low	** Moderate	*** High

EUTROPHIC CONDITION





WATERSHED AND ESTUARY CHARACTERISTICS

Estuary		Landuse / Population		Watershed Details / Input Loads	
Area (km^2)	488	Urban (km^2)	7,319 (6.2%)	Area (km^2)	4,858
Tidal fresh zone area (km^2)	<1	Agriculture (km^2)	24,519 (20.9%)	Mean elevation (m)	321
Mixing zone area (km^2)	321	Forest (km^2)	62,313 (53.2%)	Max. elevation (m)	1,176
Saltwater zone area (km^2)	167	Wetland (km^2)	1,178 (1%)	Watershed: estuary ratio	10.0
Volume (1,000 x m^3)	2,137,440	Range (km^2)	21,865 (18.7%)	TSS (tonne y^{-1})	2,660,000
Depth (m)	4.38	Barren (km^2)	3 (0%)	TN (kg y^{-1})	20,000,000
Tide Height (m)	1.74	Total (km^2)	117,197 (0%)	TP (kg y^{-1})	1,000,000
Residence Time (d)	3	Population	3,084,385	TSS/est. area (tonne km^{-2} y^{-1})	5,451
		Popn: est. area ratio	6,321	TN/est. area (kg km^{-2} y^{-1})	40,984
				TP/est. area (kg km^{-2} y^{-1})	2,049