

Tijuana Estuary

SUMMARY

Tijuana estuary is characterized by moderate chlorophyll-a and macroalgae symptom expressions, both having decreased from a rating of high since the 1999 assessment. A local sewage treatment plant's capacity is often exceeded, leading to polluted conditions. This does not immediately translate into eutrophication, however, due to tidal flushing.

Influencing Factors

Nutrient load is unknown and influencing factors cannot be calculated.



Eutrophic Conditions **

Primary symptoms beginning to indicate possible problems but still very few secondary symptoms expressed.



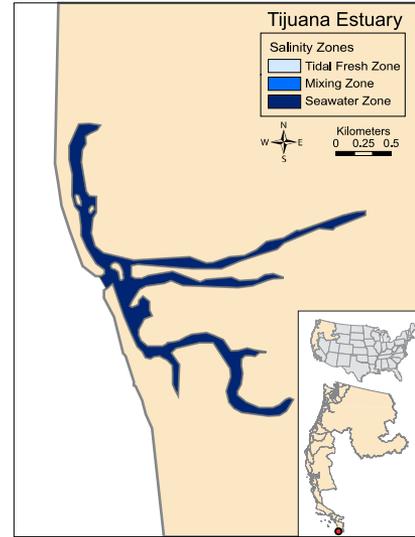
Future Outlook

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



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

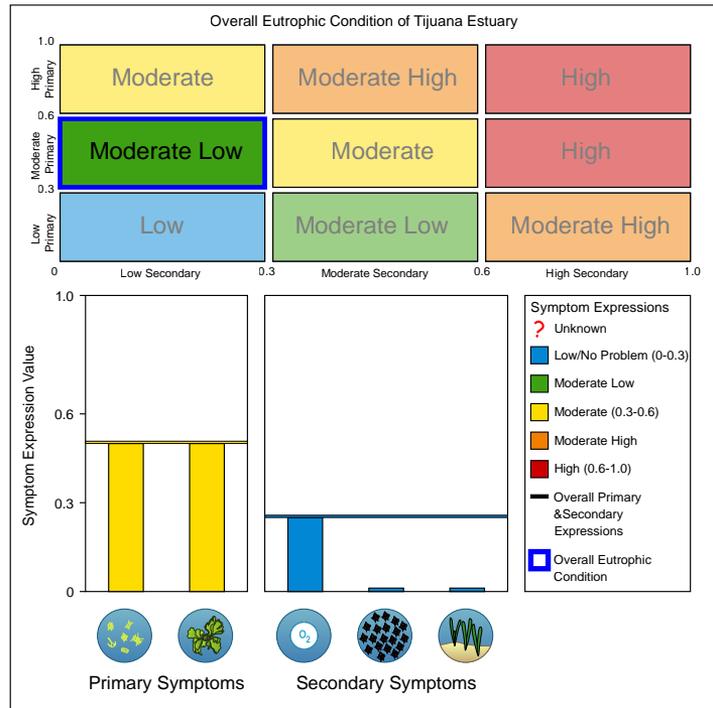
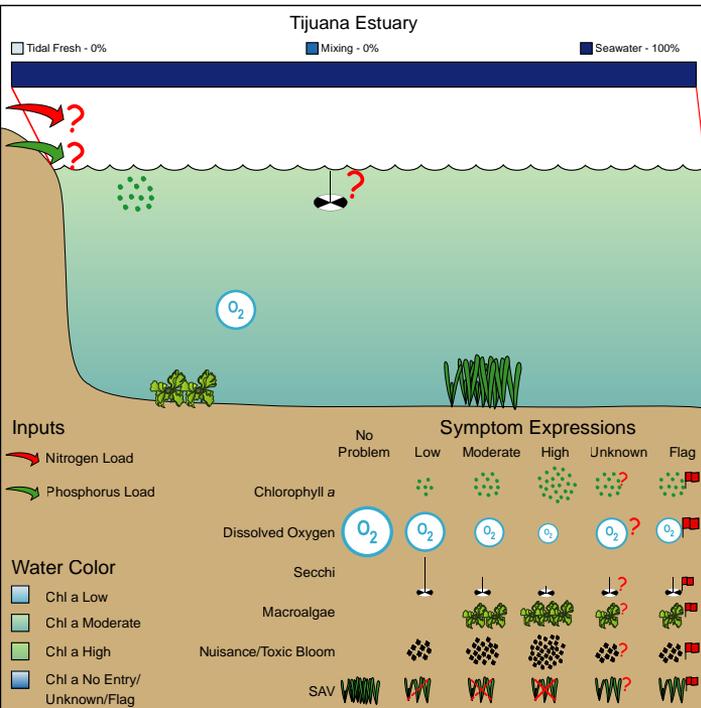
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High

EUTROPHIC CONDITION



WATERSHED AND ESTUARY CHARACTERISTICS

Estuary	Landuse / Population		Watershed Details / Input Loads		
Area (km ²)	1	Urban (km ²)	47 (10.7%)	Area (km ²)	4,454
Tidal fresh zone area (km ²)	0	Agriculture (km ²)	57 (13%)	Mean elevation (m)	869
Mixing zone area (km ²)	0	Forest (km ²)	3 (0.6%)	Max. elevation (m)	1,873
Saltwater zone area (km ²)	1	Wetland (km ²)	0 (0%)	Watershed: estuary ratio	4,454.0
Volume (1,000 x m ³)	200	Range (km ²)	332 (75.7%)	TSS (tonne y ⁻¹)	208,000
Depth (m)	0.20	Barren (km ²)	0 (0%)	DIN (kg y ⁻¹)	Unknown
Tide Height (m)	1.19	Total (km ²)	438 (0%)	DIP (kg y ⁻¹)	Unknown
Residence Time (d)	0	Population	971,481	TSS/est. area (tonne km ⁻² y ⁻¹)	208,000
		Popn: est. area ratio	971,481	DIN/est. area (kg km ⁻² y ⁻¹)	Unknown
				DIP/est. area (kg km ⁻² y ⁻¹)	Unknown