



Published on *Status/Progress Tracking: San Francisco Bay Nutrient Management Strategy*
(<http://sfbaynutrients.sfei.org>)

[Home](#) > [Goals & Work Elements](#) > Table: Recommendations related to habitat-type specific NNE assessment frameworks

Table: Recommendations related to habitat-type specific NNE assessment frameworks

Table 3. Specific recommendations for science to support development of habitat-type specific NNE assessment frameworks.

Habitat Type	Recommended Action	Priority
All subtidal	Sponsor a series of expert workshops or develop an expert panel to develop a draft assessment framework based on indicators of phytoplankton (biomass, productivity, assemblage, cyanobacteria cell counts and toxin concentrations) and dissolved oxygen	High
	Form a working group of Bay scientists to synthesize available data on factors known to control primary productivity in different regions in the Bay, developing consensus on relative importance of ammonium inhibition of phytoplankton blooms to Baywide primary productivity, and determining next steps with respect to incorporating ammonium into the NNE assessment framework for the Bay.	High
	Consider a review of the Bay dissolved oxygen objectives, either Bay-wide or for specific habitat types such as tidally muted areas (tidal sloughs, managed ponds)	High
Un-vegetated Subtidal	Utilize IEP-EMP data to explore use of macrobenthos to assess beneficial use impairment in oligohaline habitats. Consider including biomass in the protocol to improve diagnosis of eutrophication or other nutrient-related beneficial-use impairment. Determine whether combination of indicators can be used reliably to diagnose eutrophication and other nutrient-related beneficial-use impairment distinctly from other stressors.	Low

Submerged Aquatic Vegetation	Conduct studies to establish light requirements for the Bay seagrass species;	Low
	Collect baseline data to characterize prevalence of macroalgal blooms and other stressors on seagrass beds	Moderate
	Evaluate the findings of statewide NNE studies characterizing effects of macroalgae on seagrass for applicability to the Bay	Moderate
	Participate in statewide group to develop an assessment framework for eutrophication in seagrass, based on phytoplankton biomass, macroalgae, and epiphyte load.	High
Intertidal Flats	Evaluate the findings of studies characterizing effects of macroalgae on intertidal flats for applicability to the Bay	Moderate
	Participate in statewide group to develop an assessment framework for eutrophication in intertidal flats, based on macroalgae and other supporting indicators.	High
Tidally muted habitats - managed ponds	Synthesize existing DO oxygen data for tidally muted areas and collect baseline data primary and supporting indicators (macroalgal biomass and cover and phytoplankton biomass, taxonomic composition, and HAB toxin concentrations) in these habitats needed to make a full assessment of status of eutrophication.	High



San Francisco Estuary Institute
Aquatic Science Center

© 2014 [San Francisco Estuary Institute](http://www.sfei.org)

Source URL (modified on Feb 24 2017 - 7:07pm):

<http://sfbaynutrients.sfei.org/books/recommendations-related-habitat-type-specific-nne-assessment-frameworks>