Important Documents Pertaining to the Ecological Health of Tidal Wetlands and the Bay:

San Francisco Bay Shoreline *Adaptation Atlas:* Working with Nature to Plan for Sea Level Rise Using Operational Landscape Units – A 2019 report produced by the San Francisco Estuary Institute that provides a science-based framework that introduces the concept of Operational Landscape Units (OLU) for the San Francisco Bay Shoreline and identifies potential sea level rise adaptation strategies that should be considered for each of the shoreline OLUs. *https://www.sfei.org/projects/san-francisco-bay-shoreline-adaptation-atlas*

Baylands Ecosystem Habitat Goals - a report of recommendations prepared by the San Francisco Bay Area Wetlands Ecosystem Goals Project (originally published in 1999 US EPA and SFBRWQCB and updated in 2015 to incorporate recommendations to address climate change) regarding actions necessary to protect the San Francisco Bay ecosystem. The 1999 identified and described important habitats within San Francisco Bay, document recommended the protection and restoration of 100,000 acres of tidal wetlands.
1999 document - *https://www.sfei.org/documents/baylands-goals*
2015 update - *https://www.sfei.org/sites/default/files/biblio_files/Baylands_Complete_Report.pdf*

Bay Conservation and Development Commission (BCDC) Regional Shoreline Adaptation Plan Guidelines – Senate Bill 272 passed in 2023, requires all local governments along the coast and along the shoreline of San Francisco Bay submit sea level rise adaptation plans by 2034. BCDC was mandated by SB 272 to develop of set of guidelines for all local governments within BCDC's regulatory jurisdiction, to follow in the development of their shoreline adaptation plans. The Guidelines include a list of information that must be considered during the development of local shoreline adaptation plans. *https://www.bcdc.ca.gov/wp-content/uploads/sites/354/2024/11/Appendix-B-Regional-Shoreline-Adaptation-Plan-spread.pdf*

Estuary Blueprint San Francisco Estuary Partnership – Implementation Strategy based on identified habitat goals for the San Francisco Bay estuary and its watersheds. The strategy calls for an increase in the pace and scale of protection, restoration, and enhancement actions for habitats of the Bay. *https://www.sfestuary.org/estuary-blueprint/*

Restoring the Estuary San Francisco Bay Joint Venture – The San Francisco Bay Joint Venture (SFBJV), is a "public-private partnership with a mission to protect, restore, increase, and enhance habitats throughout the San Francisco Bay region for the benefit of birds, other wildlife, and people. *Restoring the Estuary* provides a "well-researched and achievable vision for the restoration of the Estuary and other important habitats throughout the SFBJV region. It embraces and expands upon the 2015 Baylands Ecosystem Habitat Goals Update, while working in concert with other regional plans like the 2022 Estuary Blueprint to provide needed guidance to those in and beyond our partnership who will be carrying on this work in the years ahead." *https://sfbayjv.org/conservation/planning/*

San Francisco Baylands *Resilience Metrics Mapbook* - A Summary of Sea Level Rise Resilience Challenges and Opportunities: A report prepared by the San Francisco Estuary Institute for the San Francisco Bay Regional Water Quality Control Board and the U.S. Army Corps of Engineers to identify nature-based solutions (NBS) that could provide resilience for vulnerable shoreline communities, while

supporting the resilience of baylands habitats. *https://www.sfei.org/sites/default/files/biblio/2025-04/Resilience%20Metrics%20Mapbook%20-%20Spreads.pdf*

Tracking Tidal Wetland Extent in San Francisco Bay: A 2020 mapping update: Excellent prepared by the San Francisco Estuary Institute (SFEI) for the San Francisco Wetlands Regional Monitoring Program (WRMP). The report, released in April 2025, provides a 2020 update to the mapping of tidal wetlands within the San Francisco Bay estuary, depicting existing and restored tidal wetlands. The report discusses tidal wetland change over time, and the need for continued mapping and monitoring of tidal wetlands.*https://www.wrmp.org/wp-content/uploads/2025/04/WRMP-Tidal-Extent-Report_Final_Apr10_2025.pdf*

***Sediment for Survival*: A Strategy for the Resilience of Bay Wetlands in the Lower San Francisco Estuary:** A San Francisco Estuary Institute Report (SFEI) that describes the significant challenges we must address to maintain tidal wetlands, including the diminishing sediment supply which may hinder the ability of tidal wetlands to keep pace with rising sea levels through accretion of sediment, and our history of developing up to the edges of the Bay, which reduces the ability of tidal wetlands to migrate inland. *https://www.sfei.org/projects/sediment-survival*

Subtidal Habitat Goals Project – Seminal document, released in 2010, that describes Bay habitats that exist below the high tide line. The report provides an understanding of the value (benefits provided) of the habitats, the interaction between subtidal habitats, their long-term sustainability and mechanisms needed to ensure these habitats are resilient to climate change. https://www.bayarealands.org/?crb_render_featured_project=yes&crb_popup_index=38

USFWS Recovery Plan for Tidal Marsh Ecosystems of Northern and Central California: Identified actions that need to be undertaken to protect tidal marsh ecosystems which crucial to the recovery of six endangered species – including two animal species - Ridgway's Rail and salt marsh harvest mouse, and four plant species - California sea-blite, salt marsh bird's-beak, soft bird's-beak, and Suisun thistle: *https://www.fws.gov/project/california-tidal-marsh-ecosystem-recovery*

Useful Websites:

Adapting to Rising Tides: Information and mapping compiled by the San Francisco Bay Conservation and Development Commission (BCDC), that documents the threats posed by sea level rise to shoreline communities, as well as guidance on what local governments should consider for adaptation planning. *https://www.adaptingtorisingtides.org/*

ART Bay Area Shoreline Flood Explorer (online sea level rise risk mapping): An interactive mapping tool that allows the viewer to select sea level rise projections with or without the addition of storm frequency to understand potential flood risk and the total water levels that might be experienced under the selected scenarios. *https://explorer.adaptingtorisingtides.org/home*

Our Coast Our Future: A partnership between the U.S. Geological Survey (USGS) and Point Blue Conservation Science that provides tools to identify and understand sea level rise vulnerabilities to inform adaptation planning. *https://ourcoastourfuture.org/*

Our Coast Our Future Hazard Map: Provides and interactive tool that can be used to visualize the impacts of sea level rise, storm surge, groundwater rise, etc. along the San Francisco Bay shoreline and California Coast. *https://ourcoastourfuture.org/hazard-map/*