



Regional Shoreline Adaptation in San Mateo County

STORMS, FLOODING & SEA LEVEL
DEFENSE 2025

November 19, 2025

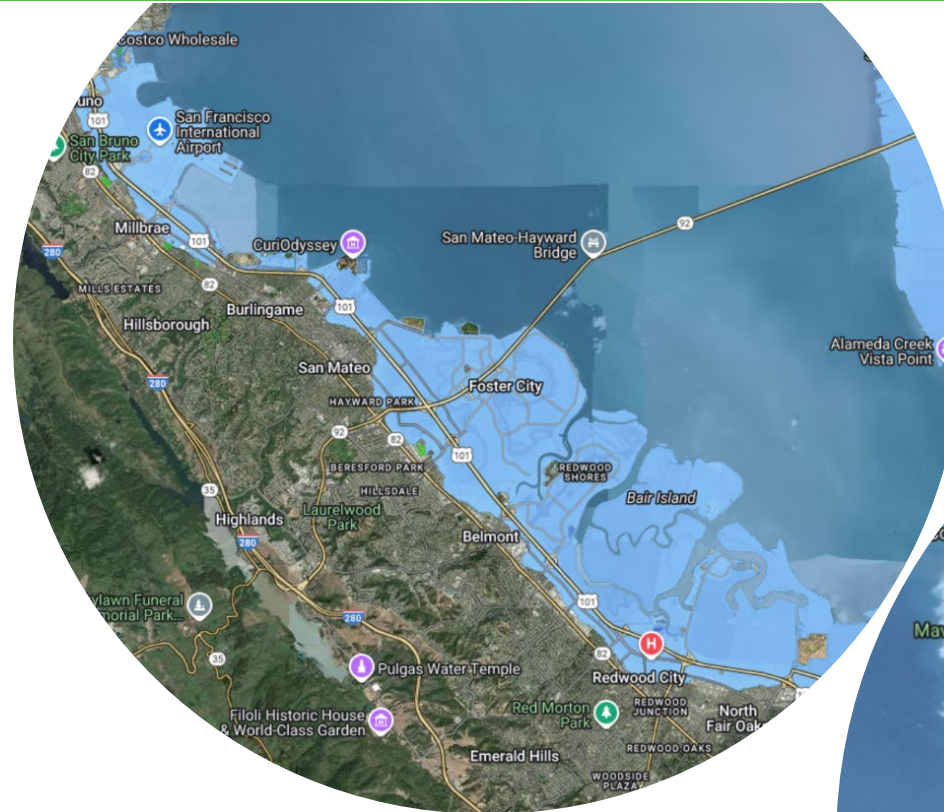
Summer Bundy

Director of Projects

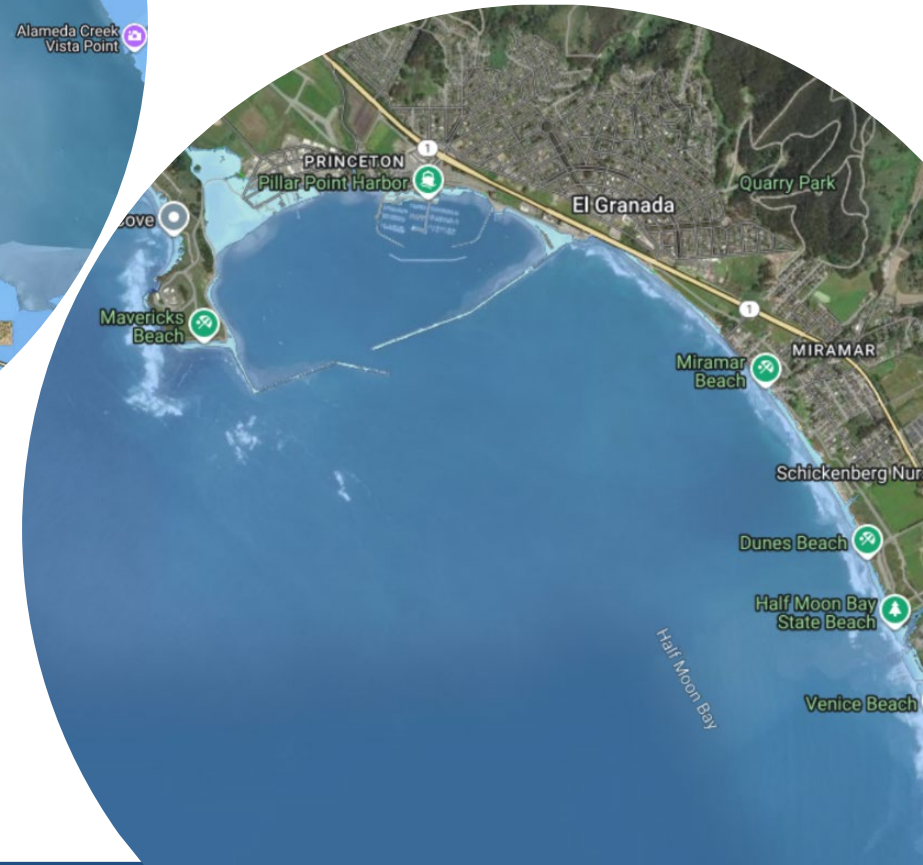


San Mateo County Context

- 742,893 population
- 53 miles of shoreline
- 20 Incorporated Cities
- Regionally significant critical infrastructure at risk
- Hydraulically connected Bayside creeks and reaches of shoreline cross jurisdictional boundaries



*Coastal Flood Hazard Exposure
with 6.6' of Sea Level Rise
(Our Coasts, Our Future)*



OneShoreline Background



- Independent agency with countywide authority; governed by County + city reps
- Established by State Legislature – effective Jan 1, 2020
- Formed to replace fragmented efforts with coordinated, multi-jurisdictional planning and attract state/federal funding
- First countywide district in Bay Area focused on flood & sea level rise resilience

2025-26 Priorities



POLICY GUIDANCE

Plan land use, private development, and public infrastructure for **climate-driven conditions and with regional resilience** projects; and develop Shoreline Adaptation Plans complying with new State guidelines



PROJECTS

Advance **projects that align long-term resilience** for developed, natural, and recreational areas across jurisdictions; and **economic resilience for property owners and renters**



FLOOD EARLY WARNING

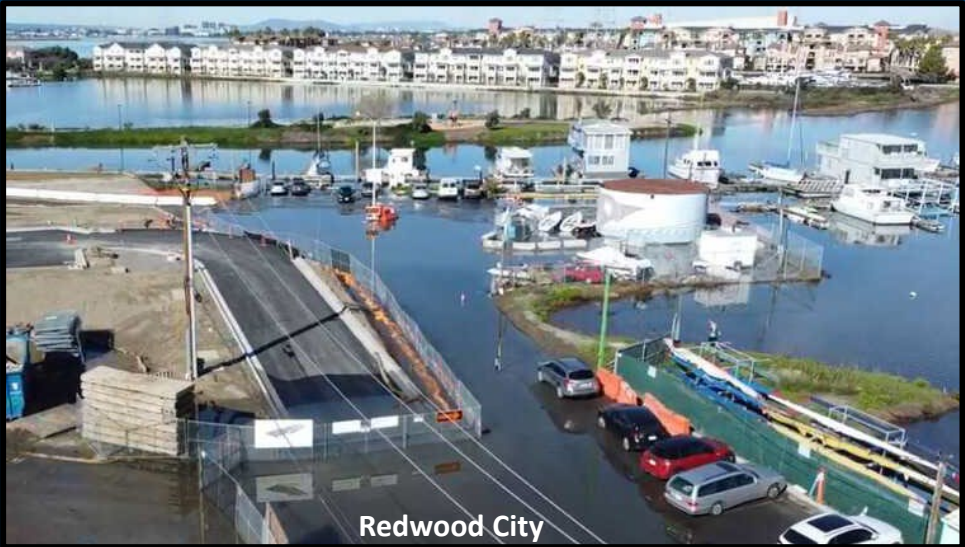
Alert people to and **reduce the impacts of today's extreme storms** made worse by rising tides



FUNDING

Develop **ongoing local funding streams** to sustain these efforts long-term and to continue to leverage outside funding opportunities

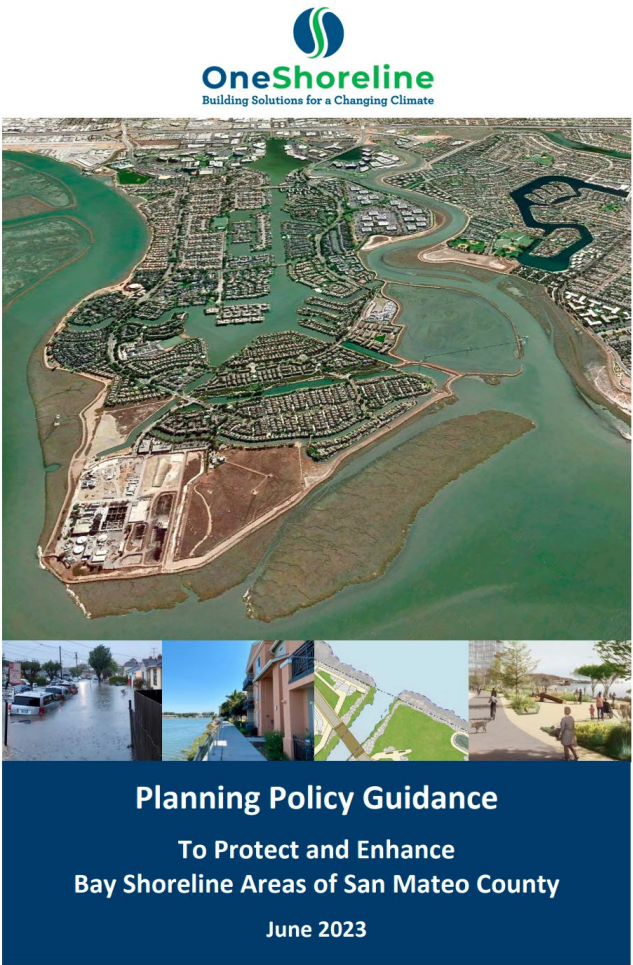
Flooding around the county – more extreme storms and higher tides



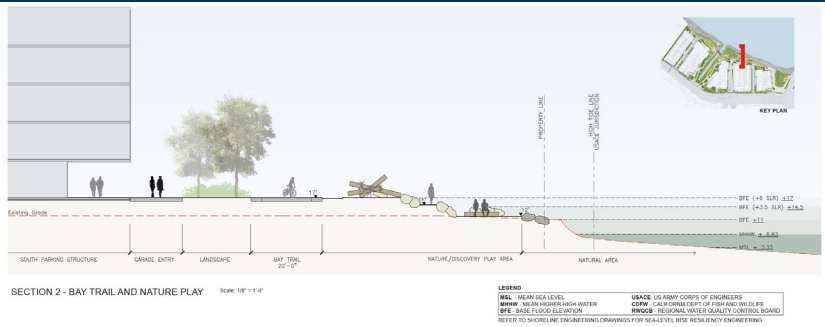
OneShoreline's 2023 Planning Policy Guidance



- Focused on new/substantial private development
- Administrative Draft based on local and nationwide sources
 - received 300+ comments from 11 Bayside jurisdictions, BCDC, SFEI, and other stakeholders.
- Public Draft
 - over 200 additional comments from 21 entities, including public agencies, private developers, engineering consultants, environmental organizations, environmental justice organizations, and private citizens.
- Adopted by OneShoreline's Board in June 2023
- Several elements of the PPG have been adopted by the County's Bayside jurisdictions or are being used in development reviews
- Serving as model throughout the Bay region



SAN MATEO COUNTY FLOOD AND SEA LEVEL RISE RESILIENCY DISTRICT
OneShoreline.org 1700 S. El Camino Real, Suite 502, San Mateo, CA 94402



Example redevelopment project incorporating PPG

Upcoming: Resilient Public Infrastructure Guidance



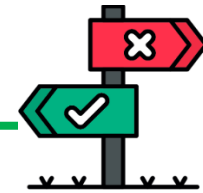
Integrate Climate Change

Incorporate climate hazards into capital project planning and design.



Develop San Mateo–Specific Climate Science

Update precipitation data and IDF curves to inform local design standards.



Develop Practical Infrastructure Guidance

Provide both general and asset-specific recommendations.



Incorporate Non-Structural Adaptation

Integrate policy, planning, and management strategies alongside engineered solutions.



Provide Template Language

Develop template language for drainage design manuals and long-term planning documents.



Ensure Alignment with Policy & Science

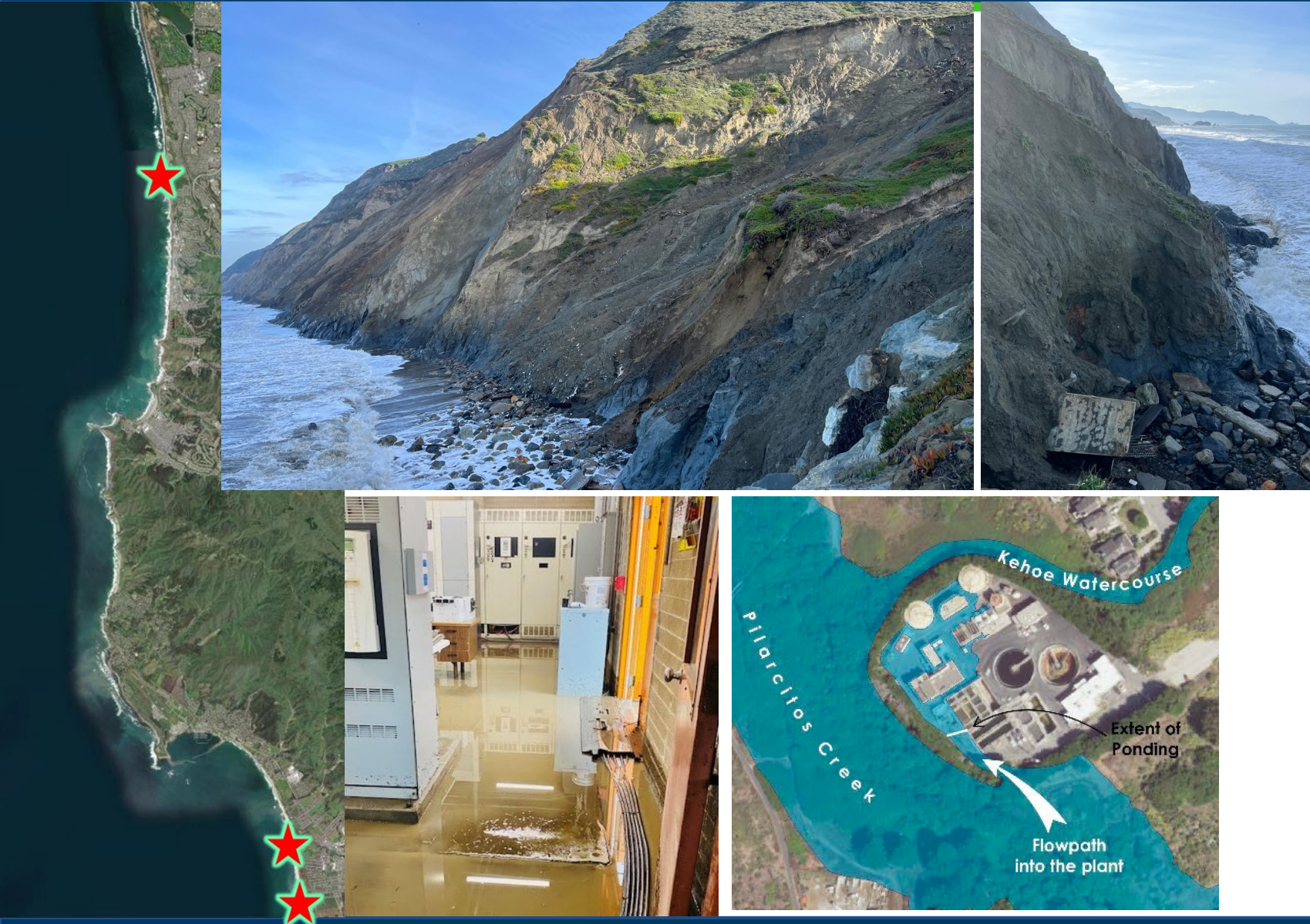
Reflect best available science, State policy guidance, and local priorities.

Ongoing Sea Level Rise Efforts on the Bayside

- Built projects: Foster City and Bayfront Canal
- Several sea level rise planning efforts and design projects underway
 - Design projects
 - SFO
 - SAFER Bay
 - Redwood Shores
 - Planning projects / Feasibility Studies
 - Millbrae and Burlingame Shoreline Resilience Project
 - Colma Creek Projects
 - San Bruno Creek Resilience Project
 - South San Francisco Shoreline Connectivity Study
 - Newly-funded Shoreline Resilience Plans
 - Brisbane
 - Southern Bayside Cities (Belmont, San Carlos, Redwood City, Menlo Park, East Palo Alto)



Outer Coast Efforts



- USACE authorizations for Sewer Authority mid-Coast and Pillar Point Harbor
- Seeking funding to advance “clean closure” of Daly City and Half Moon Bay landfills
- County “Plan Princeton” Local Coastal Plan
- Collaborating with local jurisdictions as requested on grants, and land use/development reviews

Thank you



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