

Deep East Thrives! Leveraging Three Scales to Ensure Equitable Outcomes for Community Adaptation



AGENDA

- INTRODUCTIONS & FRAMING
- EAST OAKLAND GRASSROOTS ADVOCACY AND COMMUNITY PLANNING
- RAAPP + OLU APPROACH
- OAKLAND ALAMEDA WORKING GROUP
- QUESTIONS + DISCUSSION

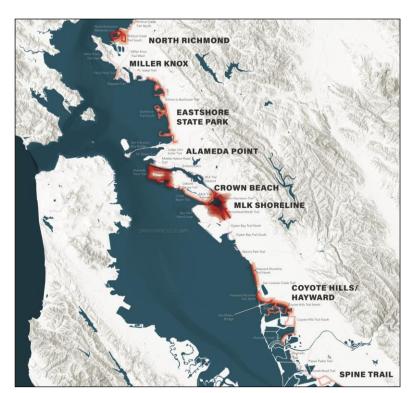


01

INTRODUCTION & FRAMING



ACTION ACROSS SCALES



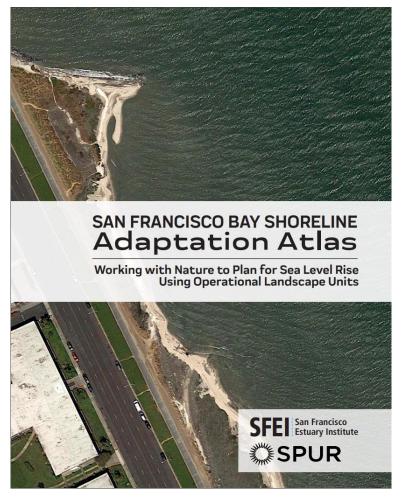


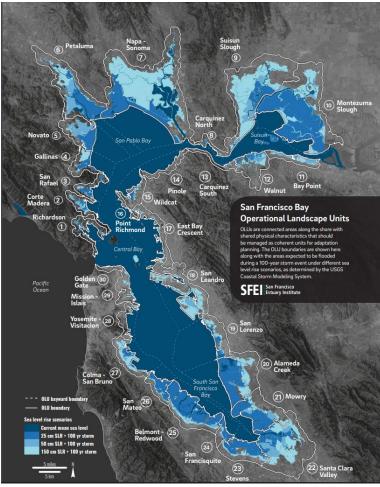


Regional Sub-Regional

Grass Roots

OPERATIONAL LANDSCAPE UNITS (OLU)





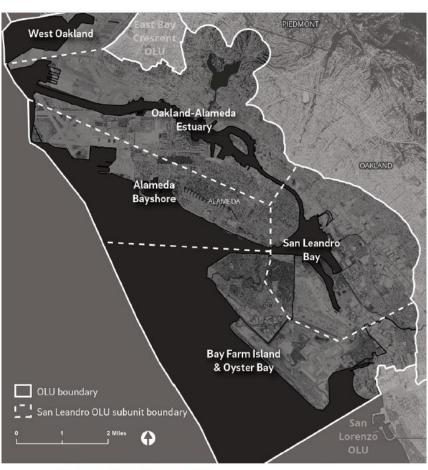


Figure 5. Suggested subunits for the San Leandro OLU.

MEET OUR PANEL



Principal

WRT



The Hood Planner
Hood Planning Group



Cristina Bejarano
Senior Associate
WRT



Gail Payne

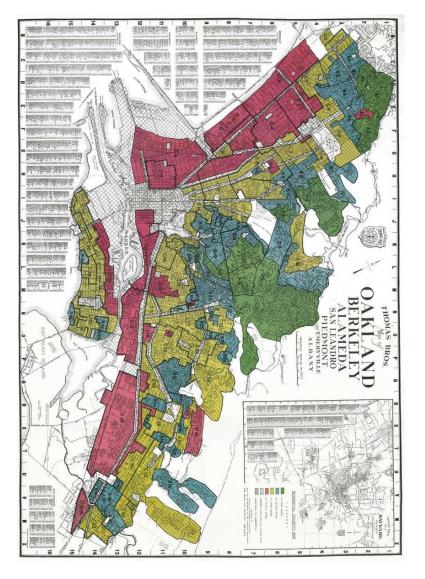
Project Manager
City of Alameda &
Estuary Adaptation Working Group

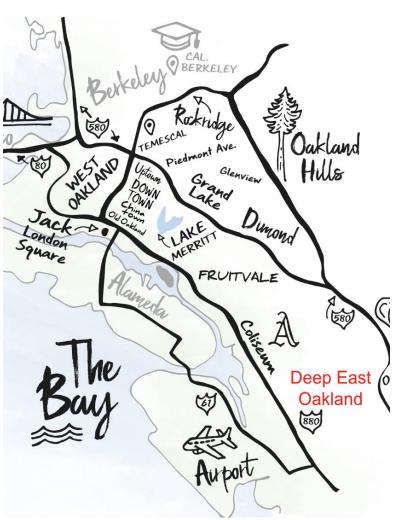
02

EAST OAKLAND GRASSROOTS ADVOCACY AND COMMUNITY PLANNING

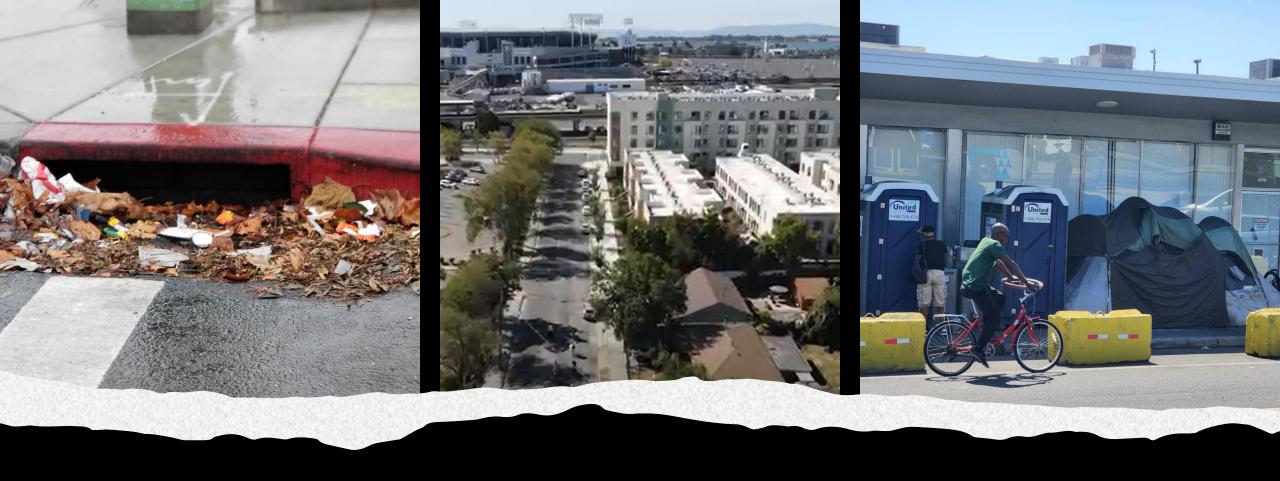








WHO I SERVE: DEEP EAST OAKLAND



DEEP EAST OAKLAND

Real life challenges, stressors and desperation experienced by this community

DEEP EAST OAKLAND

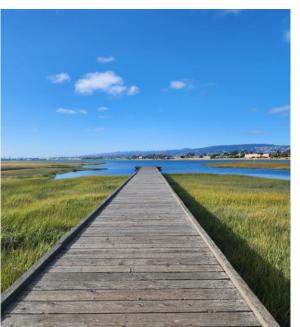
People, Place, and Culture















ADVOCACY & COMMUNITY PLANNING

Approach to connecting people and culture to the shoreline

Racial and Economic Equity

Move with integrity. Acknowledge historical harm done to the community. Equitable redistribution of resources and power. Pay residents for lived experience!

Culturally- affirming outreach and engagement

Know your audience Meet residents where they're at; Conduct on-going research of how residents want to be engaged.

'Hood Activations. Activate people, places, and spaces. Promote outdoor recreation and reconnecting to nature as a form of healing. Encourage residents to become stewards of their 'hoods.



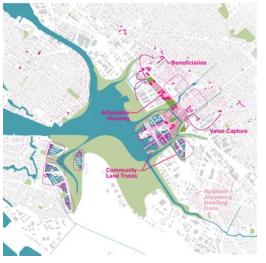




RESILIENT BY DESIGN: ESTUARY COMMONS

People, Place and a Path forward













EAST OAKLAND NEIGHBORHOOD INITIATIVE (EONI)

Building neighborhood capacity for community driven planning and development

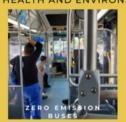




POWER THE PEOPLE: MLK JR. SHORELINE **ACCESS STUDY**

Access and Recreation to the MLK Jr. Shoreline

AND ENVIRONMENTAL IMPACTS OF DIFFERENT TRANSPORTATION OPTIONS



respiratory symptoms, including asthma in our neighborhoods. Buses improve air quality of neighborhoods by reducing



reduces risk for cardiovascular disease, and lower rates of diabetes.



A 20-minute walk a day can improve memory, sleep, and learning. It also reduces anxiety symptoms.



Skateboarding is known to boost your mood, with an emphasis on self-expression through physical exercise that improves agility, balance, and coordination.



According to a study on electric scooters they are better for the environment than personal automobiles but worse than buses with higher ridership or electric bicycles.



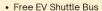
A significant amount of air pollutants are caused by motor vehicle exhaust. Electric vehicles reduce or eliminate tailpipe emissions, improving air quality and promoting better health.



4. Priority **Recommendations**



TRANSPORTATION & MOBILITY



- Mobility Hubs (Liberation Park)
- · Discounted carshare, rideshare and scooter share
- Infrastructure Improvement Needs
- · Charging/docking stations
- Paving plan
- · Bike Plan Implementation



REIMAGINING THE SHORELINE

- · Cultural markers (murals, statues, signage, etc.) that highlight MLK, activism, and East Oakland
- · Free community events, e.g. vendor pop-ups, music festivals
- Opportunities for community stewardship, e.g. jobs for returning residents, outdoor activities for Black and Brown youth



SHORELINE ACCESSIBILITY & **ENVIRONMENTAL IMPACTS**

- Access and entrance points improvements
- · San Leandro Creek clean-ups/development and other projects that reverse pollution
- . Closing the Bay Trail gaps and improving connections









SAN LEANDRO (LISJAN) CREEK TRAIL

A 1.2 miles class 1 bike and ped trail to MLK Jr. Shoreline from deep East Oakland







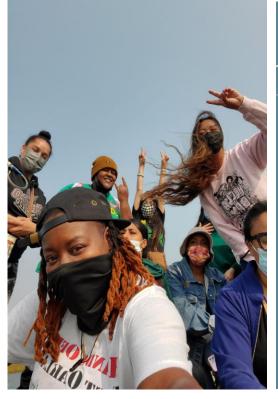
OAKLAND SHORELINE LEADERSHIP ACADEMY

Exploring and planning restoration and community development plans for the Oakland shoreline











OAKLAND SHORELINE LEADERSHIP ACADEMY: SACRED SPACES

Shoreline restoration and adaptation that creates thriving habitats for wildlife, and healing, reconnective space for people



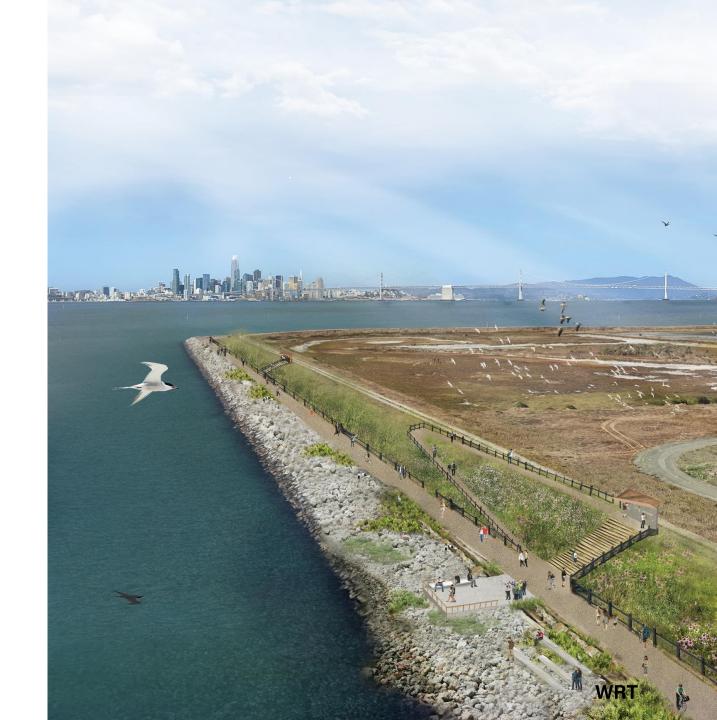
03

RAAPP + OLU APPROACH



SF BAY TRAIL RISK ASSESSMENT & ADAPTATION PRIORITIZATION PLAN (RAAPP)

 Large-scale analysis of climate hazards and framework for resilient adaptation of Alameda and Contra Costa County shorelines



RESILIENCY + ADAPTATION PLANNING

SF Bay Trail RAAPP

PARK DISTRICT MISSION

The East Bay Regional Park
District preserves a rich
heritage of natural and cultural
resources and provides open
space, parks, trails, safe and
healthful recreation and
environmental education. An
environmental ethic guides the
District in all of its activities.





FRAMING THE CHALLENGE

- 40+ miles of Bay Trail within Park District jurisdiction
- Contra Costa & Alameda Counties
- Nine Operational Landscape Units (OLUs)
- Dozens of cities and communities
- Miles of inundated trails and shoreline areas

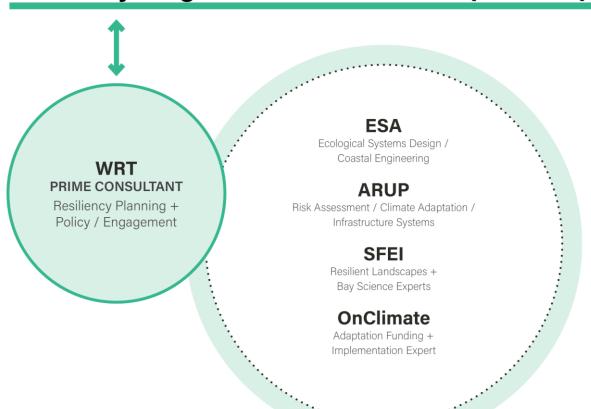




RESILIENCY + ADAPTATION PLANNING

SF Bay Trail RAAPP

East Bay Regional Park District (EBRPD)













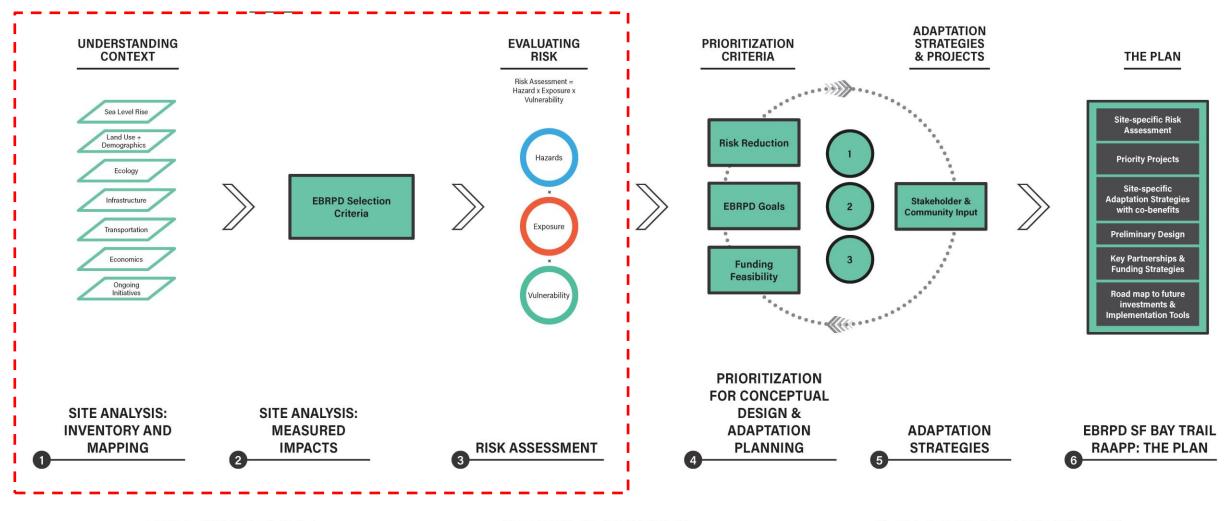




Key Issues

- 1. Sea-level Rise
- 2. Ecological Impacts
- 3. Public Access Impacts
- 4. Strategic Partnerships





FULL SHORELINE

8 TRAIL SEGMENTS

3 ADAPTATION PROJECTS

PARK DISTRICT PROJECT GOALS

- 1. Resilience to Coastal Hazards
- 2. Restoration Potential
- 3. Minimize Recurring Maintenance
- 4. Adjacency to Critical Infrastructure
- Serving Disadvantaged Communities

- 6. Access to Nature/User Experience
- 7. Funding and Partnership Potential
- Alignment with Park District MasterPlan Goals and Priorities
- 9. Representation of a diversity of coastal conditions and geographies



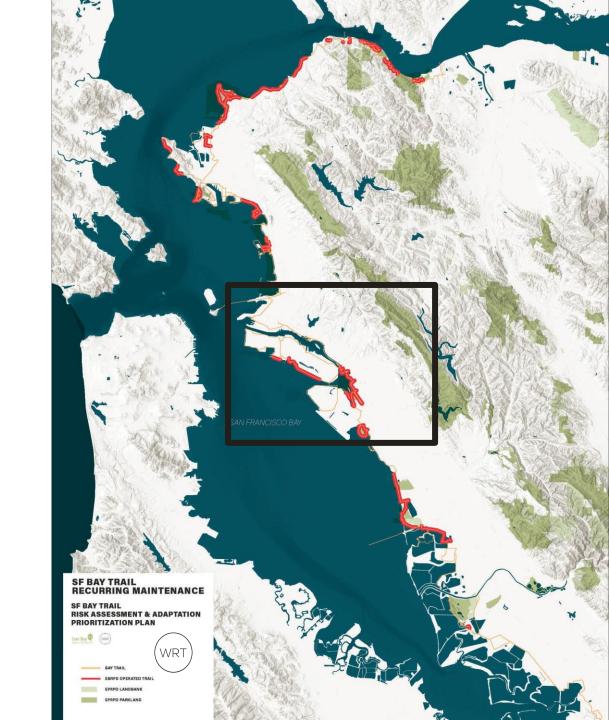
RESILIENCY + ADAPTATION PLANNING

SF Bay Trail RAAPP

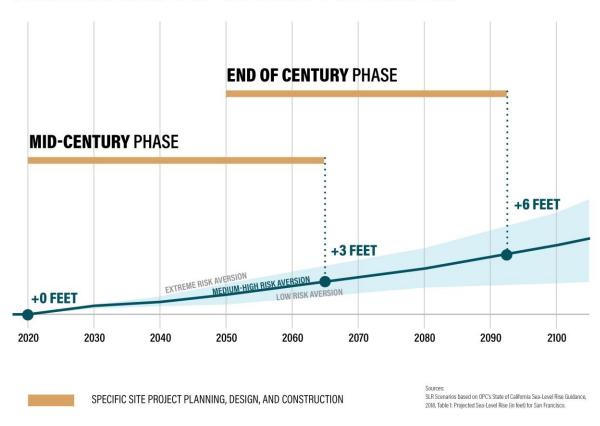
HIGH-LEVEL GUIDANCE ACROSS EBRPD'S SHORELINE

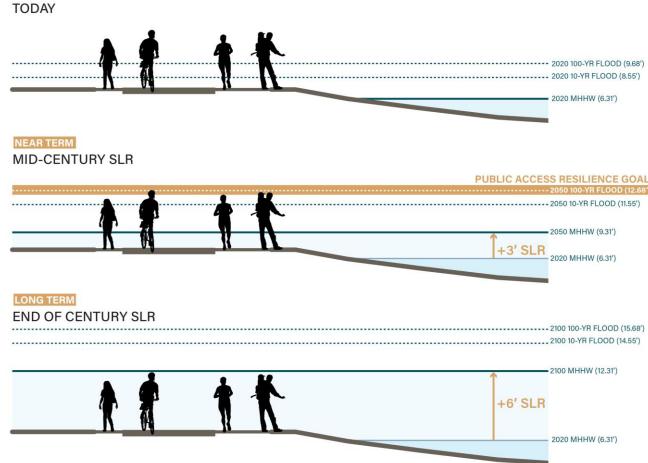


High level guidance/road map for what adaptation might look like for different trail conditions (within EBRPD jurisdiction).



PLANNING HORIZONS & CONCEPTUAL PHASING



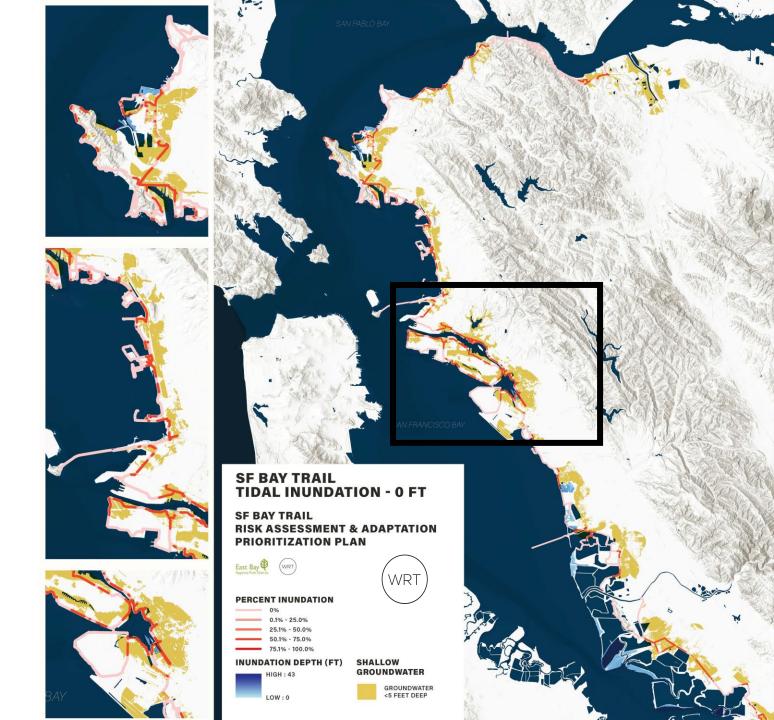




COASTAL HAZARDS

- Tidal Inundation
- Storm Flooding
- Wave Conditions
- Groundwater Emergence

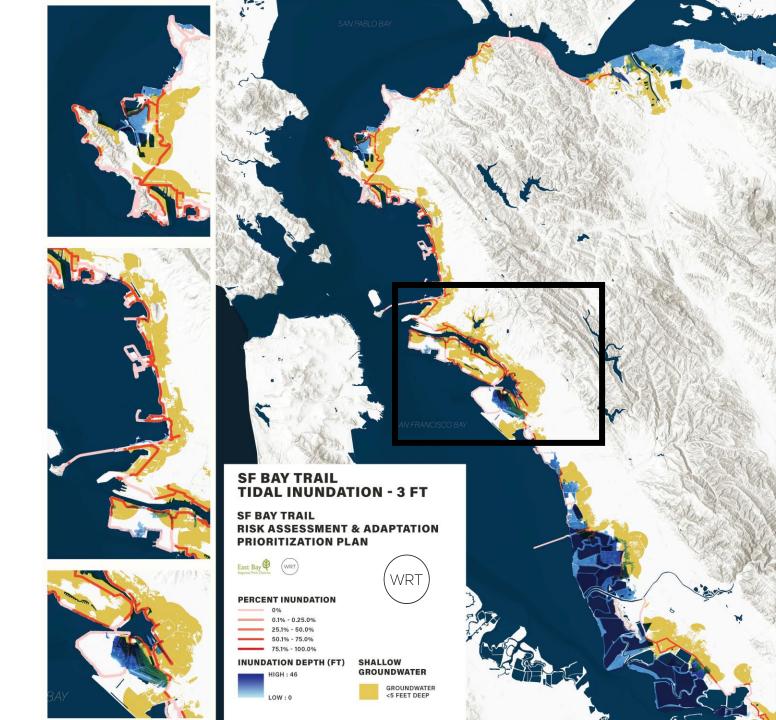
TIDAL INUNDATION W/ GROUNDWATER +0 FT



COASTAL HAZARDS

- Tidal Inundation
- Storm Flooding
- Wave Conditions
- Groundwater Emergence

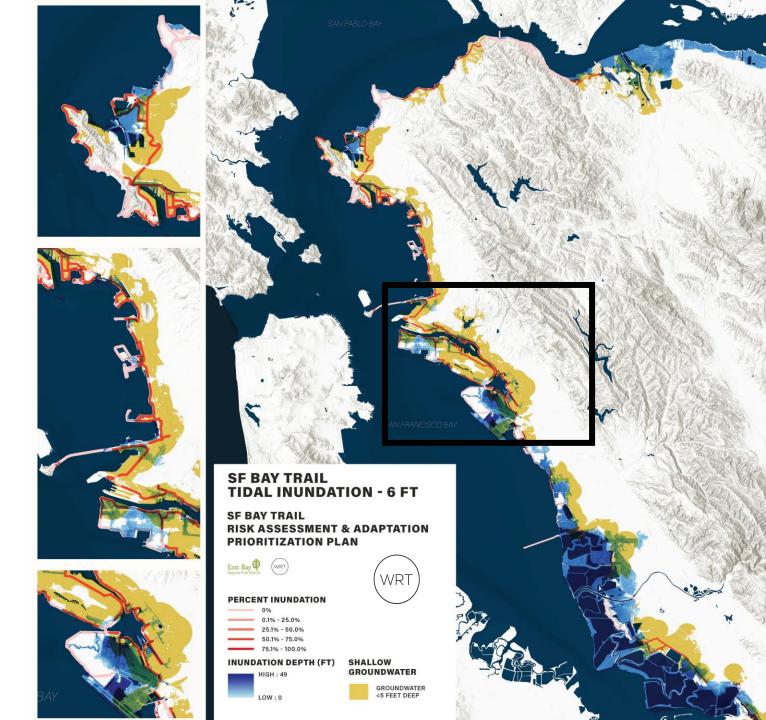
TIDAL INUNDATION W/ GROUNDWATER +3 FT



COASTAL HAZARDS

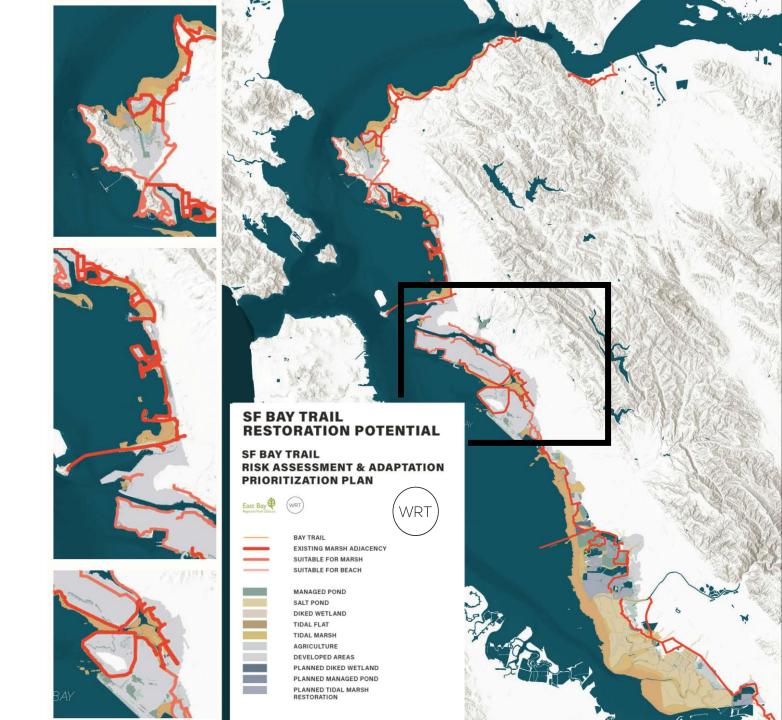
- Tidal Inundation
- Storm Flooding
- Wave Conditions
- Groundwater Emergence

TIDAL INUNDATION W/ GROUNDWATER +6 FT



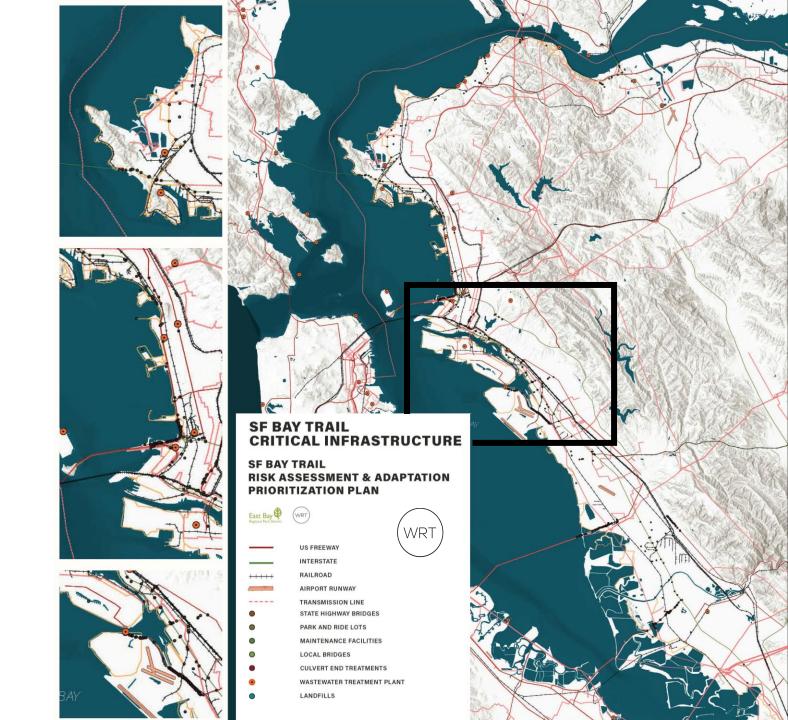
RESTORATION POTENTIAL

- Existing marsh
- Marsh migration potential
- Existing beaches
- Beach suitability potential



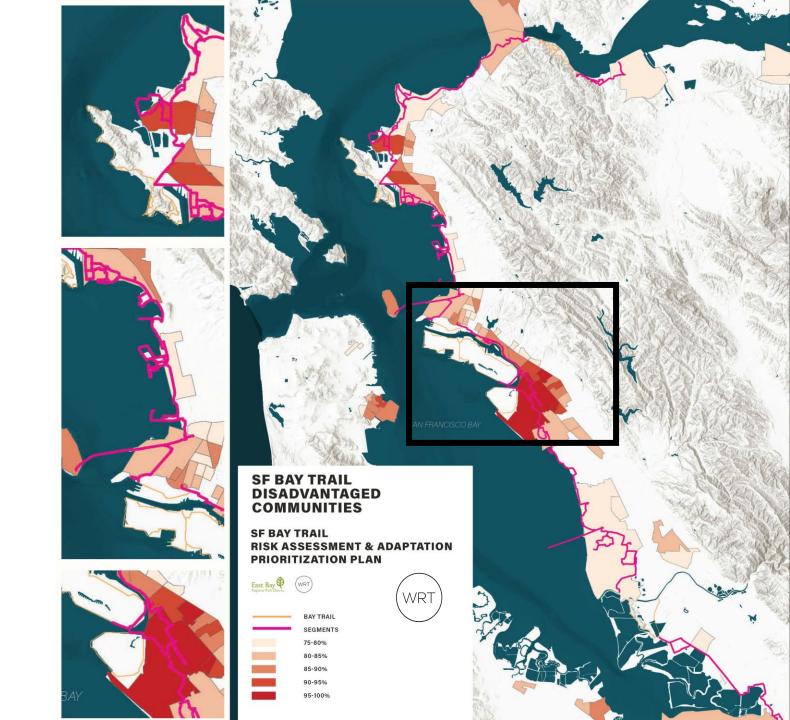
CRITICAL INFRASTRUCTURE

- Landfills
- Wasterwater Treatment Plants
- Highway
- Rail
- Airports
- Utilities



DISADVANTAGED COMMUNITIES

Cal Enviroscreen 3.0:
 Census tracks with greater than 75% disadvantaged residents



RESILIENCY + ADAPTATION PLANNING

SF Bay Trail RAAPP

RISK ASSESSMENT RESULTS

FIRST PRIORITY SITES

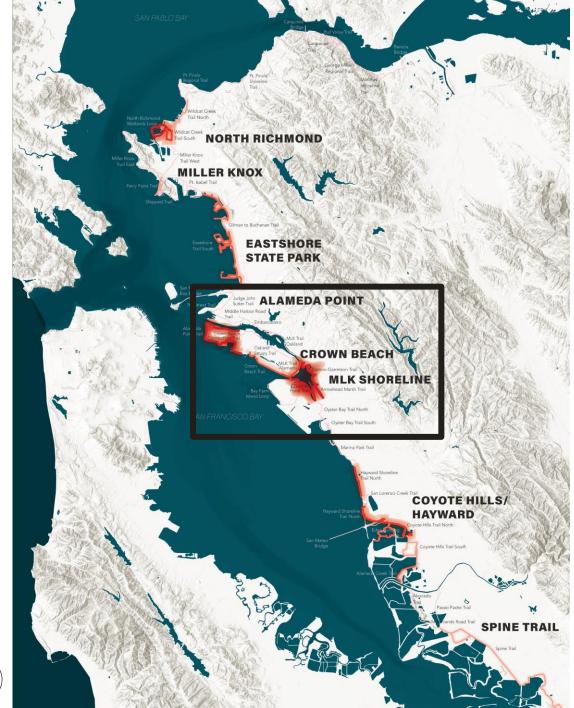
- » MLK Shoreline
- » Alameda Point
- » Coyote Hills/Hayward

SECOND PRIORITY SITES

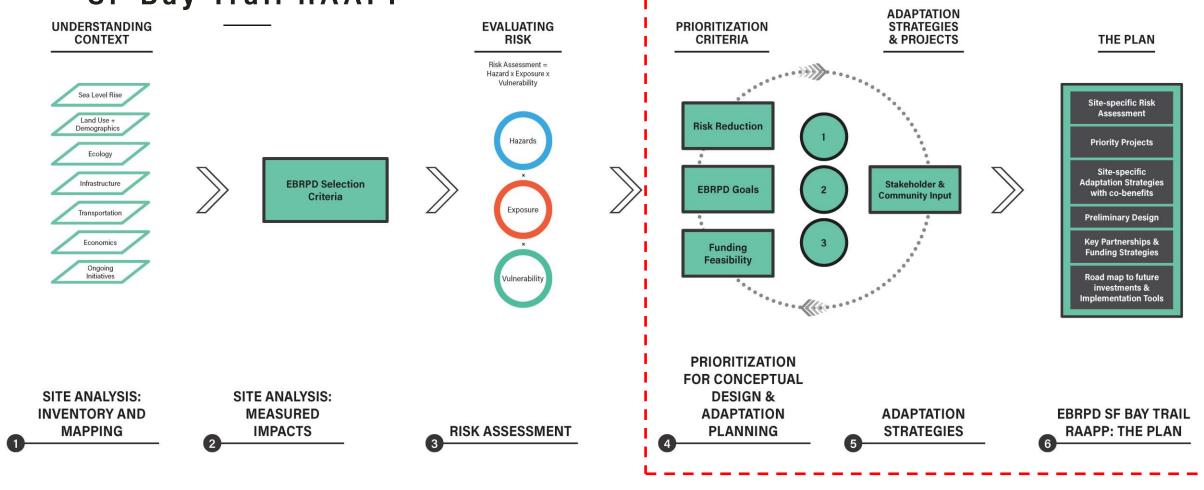
- » North Richmond
- » Eastshore McLaughlin State Park
- » Spine Trail

THIRD PRIORITY SITES

- » Crown Beach
- » Miller Knox





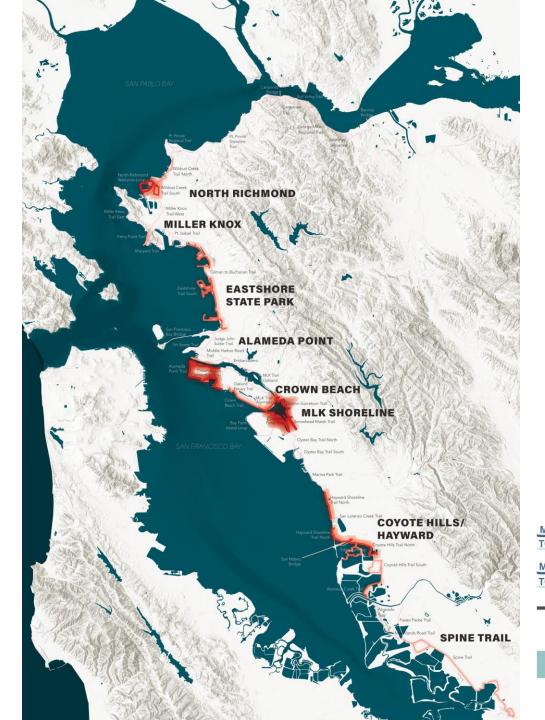


FULL SHORELINE

8 TRAIL SEGMENTS

3 ADAPTATION PROJECTS





Adaptation Measures





(Mudflats



Buffer with Public Open Space

Erosion Prevention



Maximize Habitat and Realignment

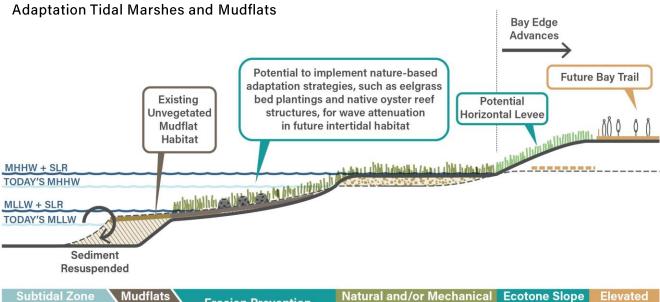
Sediment Accretion



Hybrid Approach

with High Marsh

Bay Trail



SF Bay Trail RAAPP

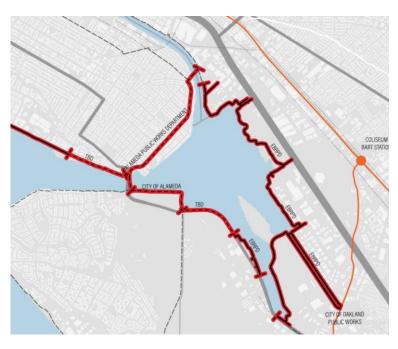
3 FOCUS AREAS



Alameda Point



Eastshore State Park



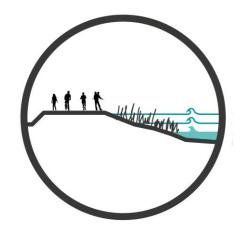
MLK Shoreline



RESILIENCY + ADAPTATION PLANNING

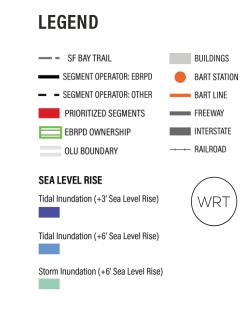
SF Bay Trail RAAPP

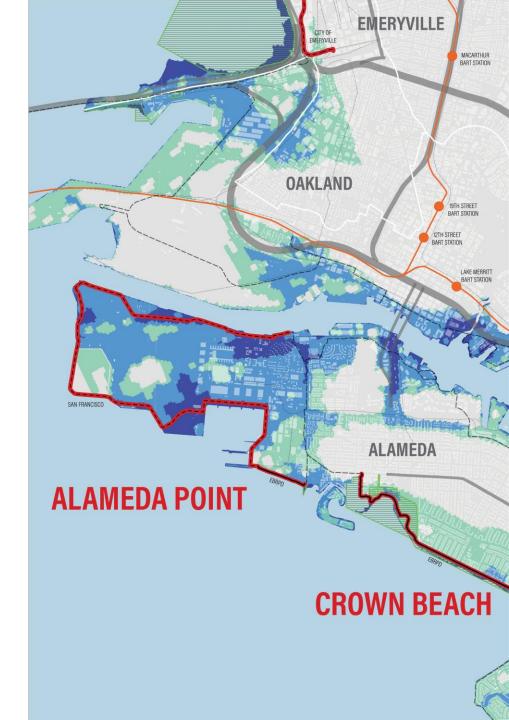
CONCEPT DESIGN FOR THE PRIORITY SITES



ALAMEDA POINT

- City of Alameda Public Works
- San Francisco Public Works
- Navy





ALAMEDA POINT: Historical Baylands

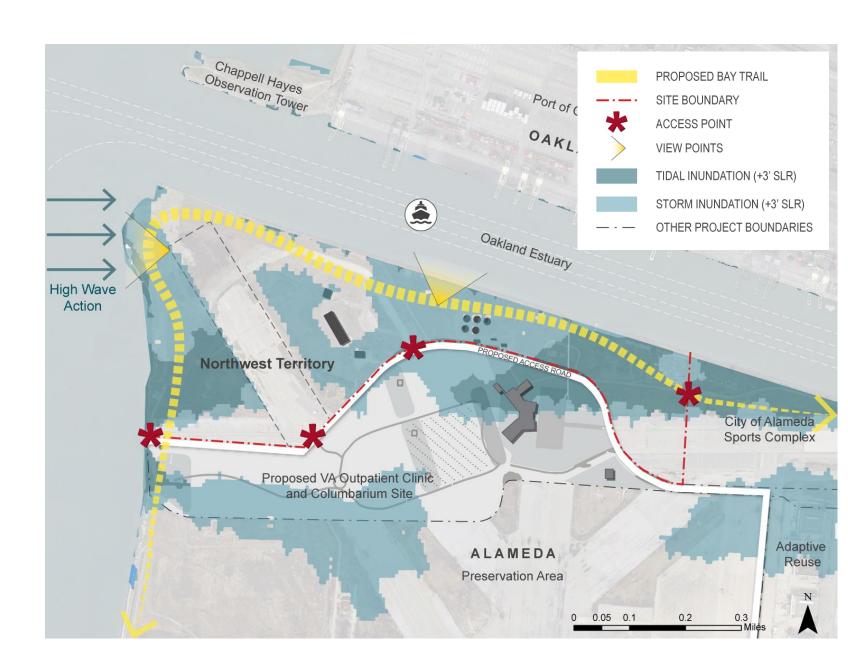


ALAMEDA POINT: 3 FT SLR

Key Issues:

Planning Horizons:
 Flooding starts at mid-century and continues extensively at end of century

- Views across the Bay
- Marsh/Habitat creation
- High wave action
- SLR inundation

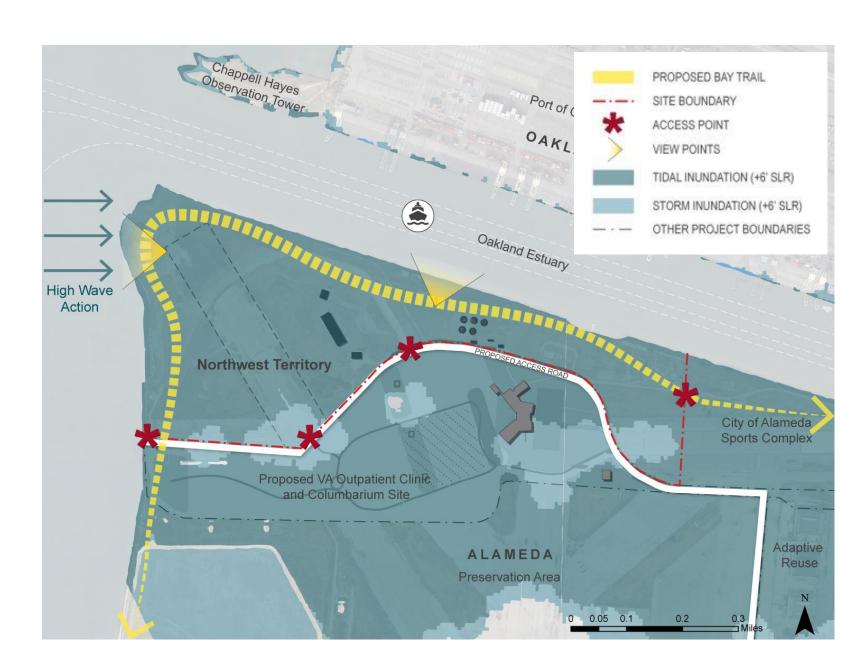


ALAMEDA POINT: 6 FT SLR

Key Issues:

Planning Horizons:
 Flooding starts at mid-century and continues extensively at end of century

- Views across the Bay
- Marsh/Habitat creation
- High wave action
- SLR inundation

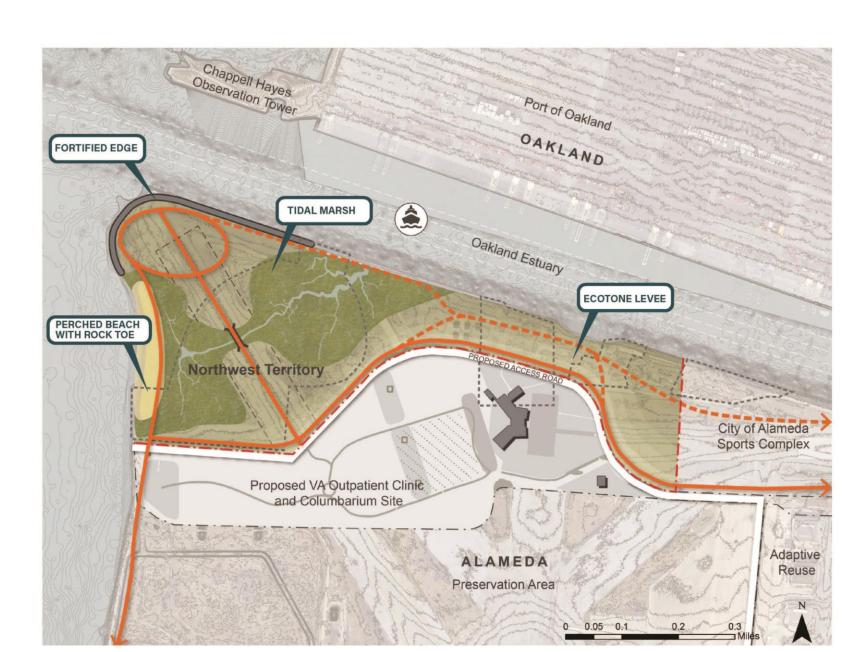


ALAMEDA POINT: OPTION 1

Key Issues:

Planning Horizons:
 Flooding starts at mid-century and continues extensively at end of century

- Views across the Bay
- Marsh/Habitat creation
- High wave action
- SLR inundation

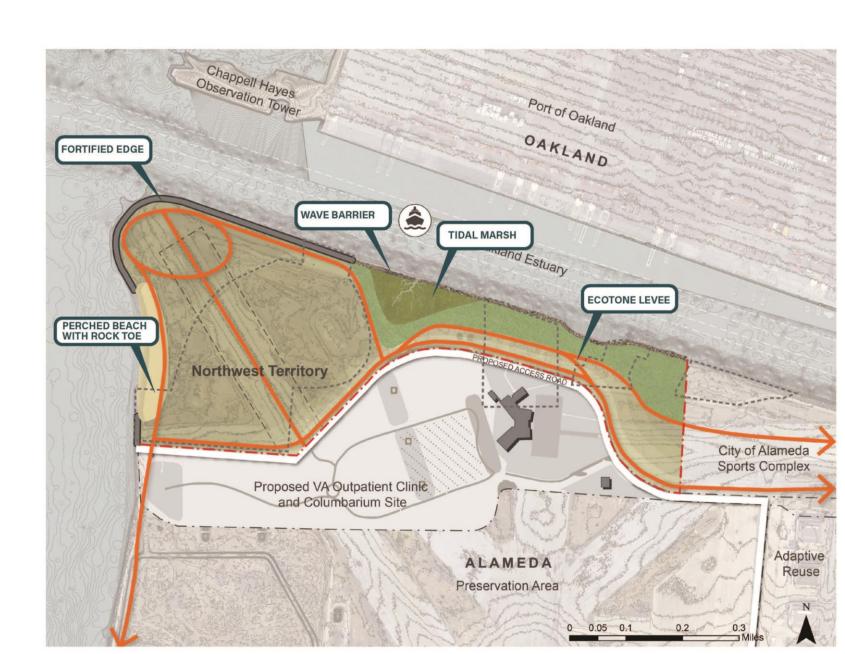


ALAMEDA POINT: OPTION 2

Key Issues:

Planning Horizons:
 Flooding starts at mid-century and continues extensively at end of century

- Views across the Bay
- Marsh/Habitat creation
- High wave action
- SLR inundation



ALAMEDA POINT: ADAPTATION VISION



FIGURE 4-15: ALAMEDA POINT CONCEPT PLAN OPTION 1 RENDERING

Opening Alameda Point

Providing public access along a forgotten shoreline

Alameda Point is one of the priority areas identified in the recently completed San Francisco Bay Trail Risk Assessment and Adaptation Prioritization Plan (RAAPP) which reimagines restoration and public access along the East Bay shoreline. Future parks and open spaces along the Alameda Point shoreline will provide public access and a broad range of community benefits which the East Bay Regional Park District will seek to continue developing through a community engagement process. For many years, the community vision has been to open the full shoreline around Alameda Point to provide seasonal Bay Trail access that complements the habitat restoration goals on the island. The seasonal trail at Alameda Point creates opportunities for visitors, including veterans, residents, and visitors, to access multiple health benefits and educational resources across the site.





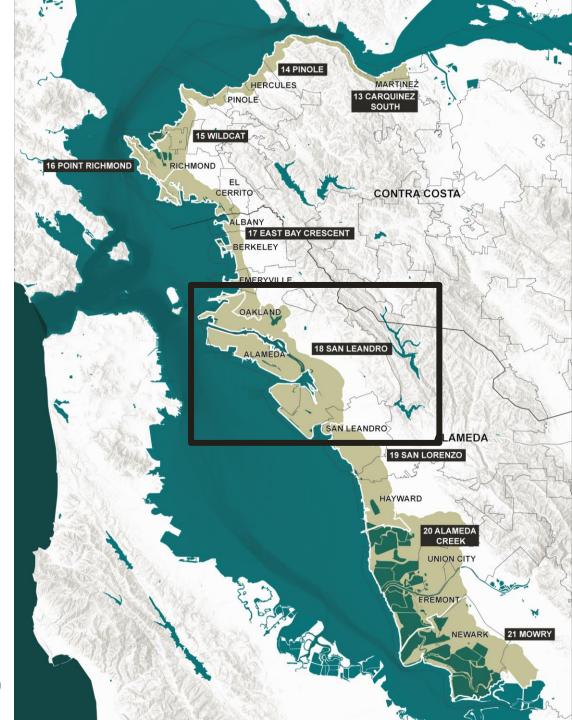
RESILIENCY + ADAPTATION PLANNING

SF Bay Trail RAAPP

Approach to Partnerships

Coordinated strategies to maximize:

- Flood Risk Reduction
- Habitat Benefits
- Community Access
- Adaptive Management
- Funding and Permitting





04

OAKLAND ALAMEDA WORKING GROUP



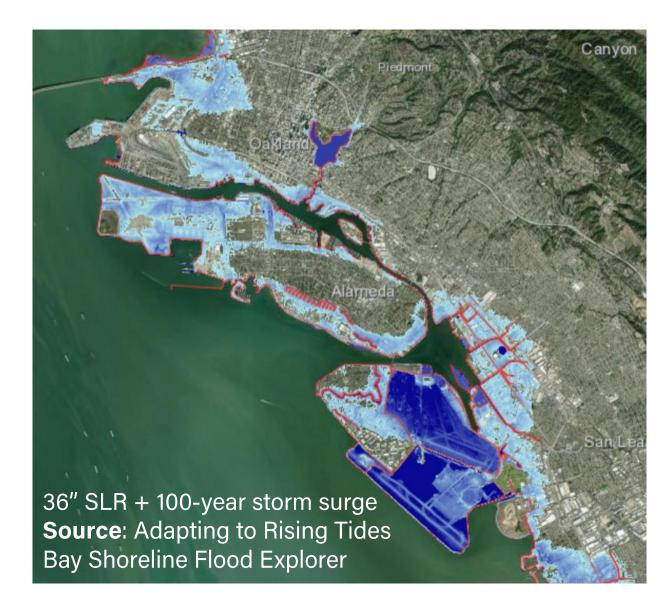
San Leandro Bay Oakland-Alameda Estuary Adaptation Working Group



BACKGROUND: SEA LEVEL RISE

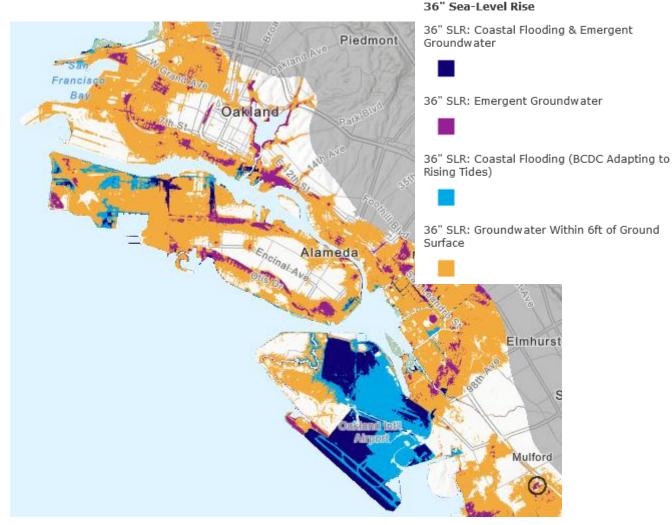
2/3 of California's sea level rise impacts will be felt in the Bay Area

- Already seen:+8 inches SLR
- Projected by 2050: +12 to 32 inches
- End of century: 10+ feet?



BACKGROUND: GROUNDWATER RISE

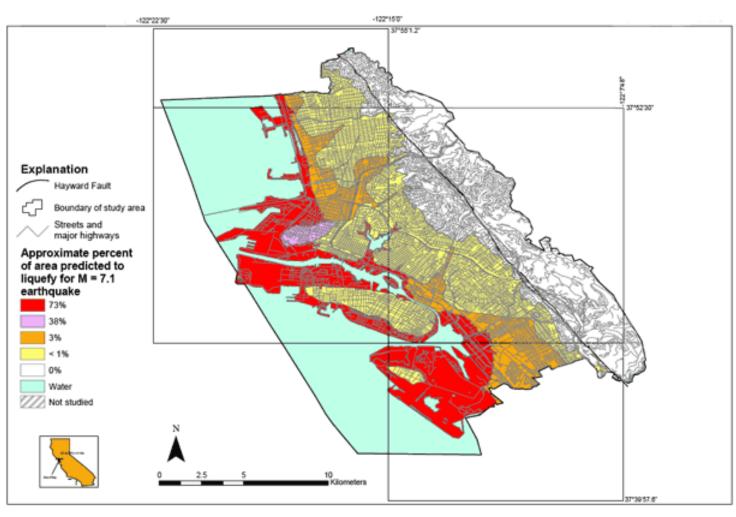
- Infiltration & corrosion of underground infrastructure
- Damage to roads and structures
- Flooding from multiple sources including emergent groundwater
- Contaminated sites
- Increased liquefaction risk



Source: SFEI Shallow groundwater response to sea-level rise

BACKGROUND: LIQUEFACTION

- Areas most at risk of liquefaction are same areas at risk of rising groundwater
- Rising groundwater may increase risk of liquefaction

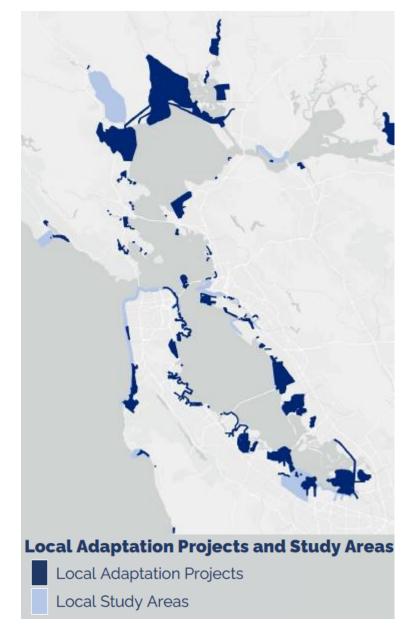


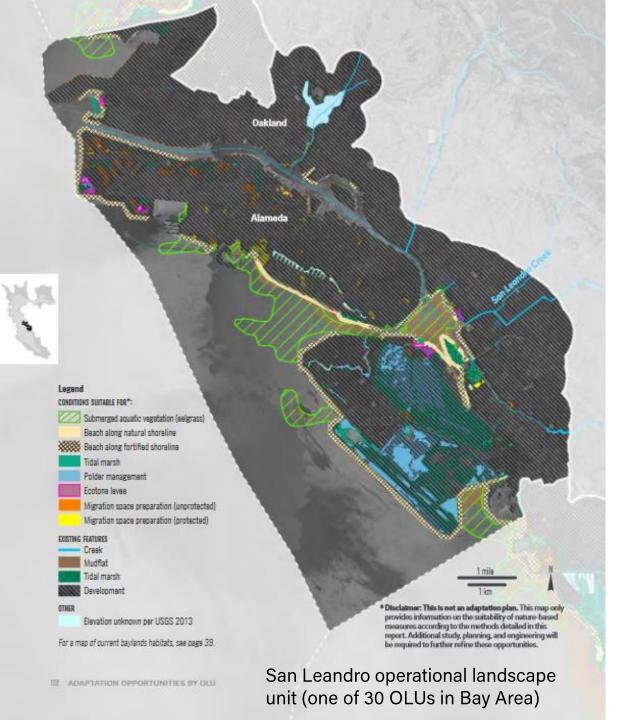
Shaking Hazard Map for Northwestern Alameda County Source: USGS Open-file Report 02-296

BACKGROUND: REGIONAL PROBLEM & SOLUTIONS

- Flooding knows no boundaries
- Communities: Most impacted and fewest resources
- Patchwork of actions
- Inconsistent science
- Competition not collaboration for funding
- Loss of wetlands
- Difficult to measure collective progress

Source: BCDC Sea Level Rise Adaptation Funding and Investment Framework



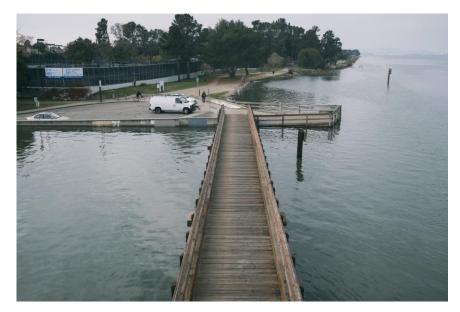


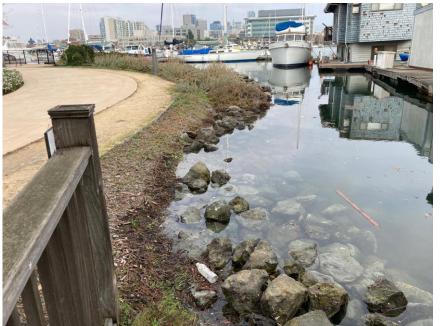
Working Group coordinates San Leandro Bay/Oakland-Alameda Estuary flood and adaptation projects to protect and restore water quality, habitat, recreation and community resilience.



WORKING GROUP: OBJECTIVES

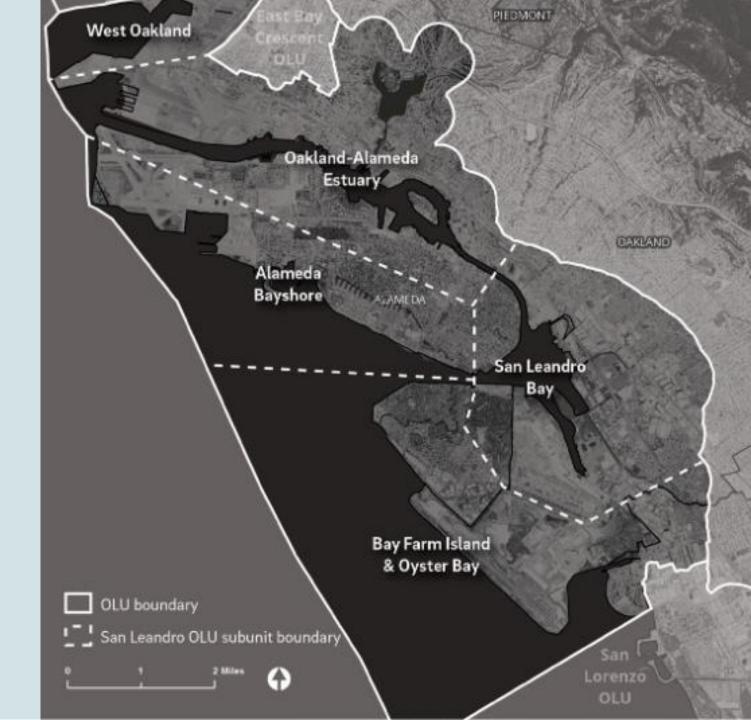
- Prepare for flooding, sea level and groundwater rise
- **Prioritize** habitat, nature-based solutions and green infrastructure
- Consider sediment management
- Improve recreational access and air quality
- Provide benefit to residents and vulnerable communities
- Contribute to economic opportunities
- Advocate for training and skill development for underserved communities
- Serve as example on sub-regional adaptation



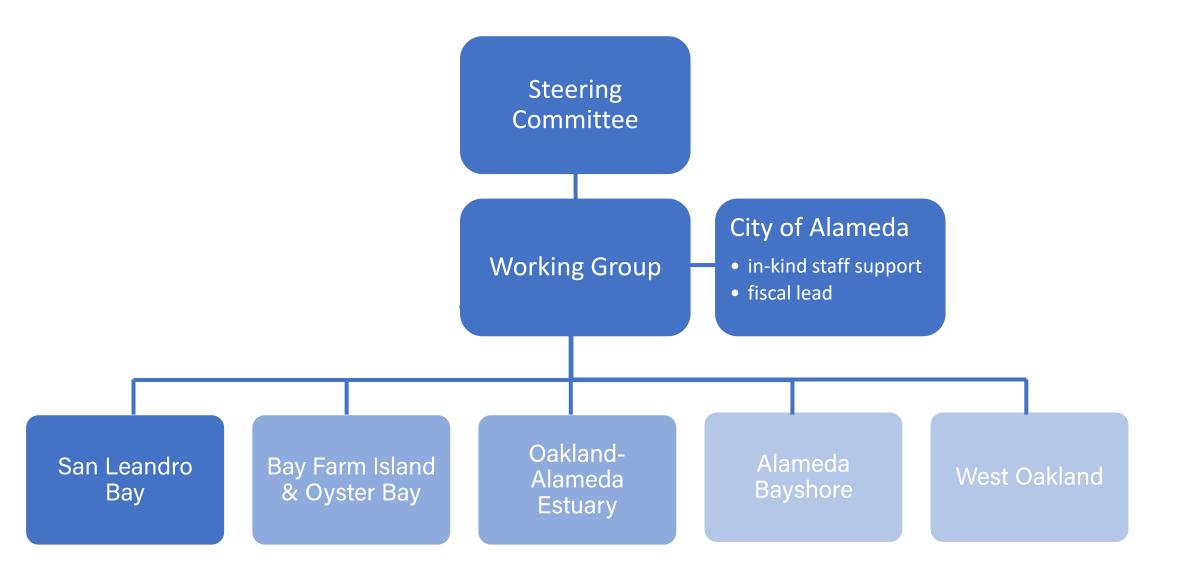


WORKING GROUP: FOCUS AREAS

- West Oakland wave exposed with seawalls, quays and subtidal habitat
- Oakland-Alameda Estuary highly urbanized dominated by seawalls
- San Leandro Bay small embayment protected from wave action, patches of marsh habitat and wide mudflats
- Alameda Bayshore waveexposed with beaches
- Bay Farm Island & Oyster Bay
 high wave action surrounded
 by deep subtidal habitat



WORKING GROUP: ORGANIZATIONAL STRUCTURE



WORKING GROUP: STEERING COMMITTEE

- Caltrans
- City of Alameda
- City of Oakland
- Community Action for a Sustainable Alameda
- East Bay Regional Park District
- Greenbelt Alliance
- Hood Planner/East Oakland Neighborhood Initiative
- Port of Oakland/Oakland International Airport
- San Francisco Bay Regional Water Quality Control Bo
- Sogorea Te' Land Trust
- West Oakland Environmental Indicators Project















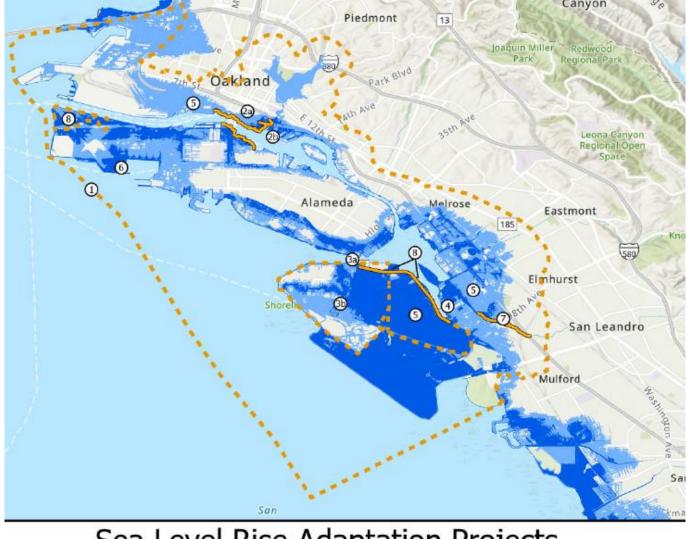




WORKING GROUP: ACTIVITIES TO DATE

- **Met** quarterly since 2021 (with 27-47 participants)
- Formed steering committee and San Leandro Bay group
- Adopted charter and objectives
- Participated in fieldtrips: MLK
 Jr. park and airport
- Created logo by Alameda High School students





Sea Level Rise Adaptation Projects

- 1 Sub-regional Long-term Adaptation Plan
- Oakland-Alameda Estuary Adaptation Project
- 2b Estuary Park Renovation and Expansion Project
- Bay Farm Island Adaptation Project (short-term)
- 3b Bay Farm Island Adaptation Project (long-term)

Caltrans Doolittle Drive/SR-61 Sea Level Rise Adaptation

48" Sea Level Rise

84" Sea Level Rise

Project LineProject Area

- 3 Port of Oakland Vulnerability Assessment and Plan
- 6) De-Pave Park Master Plan
- (7) San Leandro Creek Trail Restoration Project
- (8) East Bay Regional Park District SF Bay Trail Gap Closure

WORKING GROUP: FUNDED PROJECTS (2023-2025)

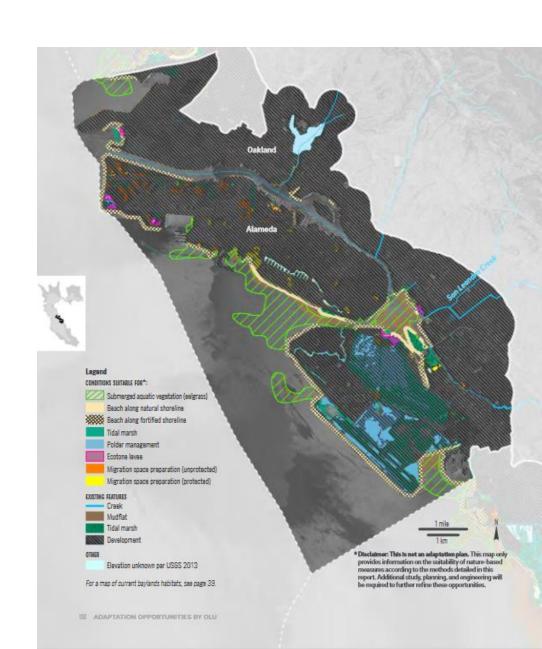
Project Description	Funding	Area
1. Long-term Adaptation Plan – Webpage: www.alamedaca.gov/AdaptationLongTermPlan	\$300,000 SFEP \$540,000 NFWF = \$840,000 (federal)	Entire operational landscape unit (Bay Bridge to Oyster Bay in San Leandro)
2a. Oakland-Alameda Estuary Adaptation Project - Webpage: www.alamedaca.gov/AdaptationEstuary	\$425,000 Caltrans \$75,000 Alameda = \$500,000 (state)	Oakland-Alameda Estuary
3. Bay Farm Island Adaptation Project – Webpage: www.alamedaca.gov/AdaptationBayFarmIsland	\$1.5 million FEMA \$530,000 Alameda = \$2,030,000 (federal)	Bay Farm Island & Oyster Bay
Total Funding	\$3.37 million	

LONG-TERM ADAPTATION PLAN

 Purpose: Identify actions needed over time as the shoreline changes to protect communities

Tasks:

- Agency coordination
 - Sub-regional agencies
 - BCDC's Regional Shoreline Adaptation Plan
- Governance structure analysis and community engagement
- Draft and final long-term plan
- **Budget**: \$840,000 (\$300,000 SFEP & \$540,000 NFWF)

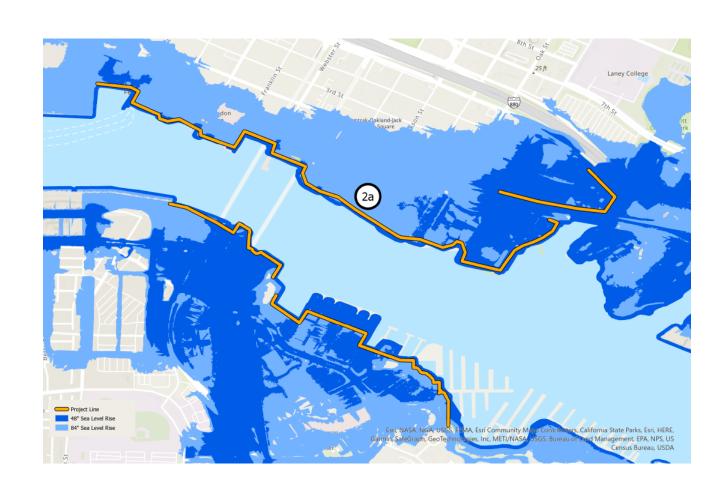


OAKLAND-ALAMEDA ESTUARY ADAPTATION PROJECT

 Purpose: Develop adaptation design concept to protect downtown Oakland/Jack London Square and Alameda's northern shoreline/Posey-Webster Tubes

Tasks:

- Structural/nature-based alternatives
- Public outreach
- Draft and final concept (10% design) with cost estimates
- Budget: \$500,000 (\$425,000
 Caltrans & \$75,000 Alameda)



BAY FARM ISLAND ADAPTATION PROJECT

 Purpose: Develop long-term plan for entire Bay Farm Island and designs for short-term fixes at northern waterfront low spots.

Tasks:

- Feasibility alternatives and design
- Public outreach
- Northern waterfront design
- Coordinate with permitting agencies
- Draft and final long-term concept
- Budget: \$2 million (\$1.5 million FEMA & \$530,000 Alameda)



COMMUNITY PARTNERS



- Role: Lead community engagement process for three funded adaptation projects
- **Budget**: \$323,000
- Selected by Steering Committee:
 - Greenbelt Alliance (with REAP Climate Center, Hood Planning Group, Ninth Root, Sogorea Té Land Trust)
 - Community Action for a Sustainable Alameda (CASA)











LEARN MORE: WWW.ALAMEDACA.GOV/ADAPTATIONWORKINGGROUP





05

QUESTIONS + DISCUSSIONS



