AGENDA



CONTRA COSTA COUNTY Contra Costa Resilient Shoreline Ad Hoc Committee

Supervisor John Gioia, District 1, Chair Supervisor Diane Burgis, District 3, Vice Chair

Wednesday, April 17, 2024

10:00 AM

District 1 Office: 11780 San Pablo Ave. Suite D, El Cerrito, CA 94530 |

District 3 Office: 3361 Walnut Blvd. Suite 140, Brentwood, CA 94513

ZOOM LINK

https://cccounty-us.zoom.us/j/87170445129

| Dial: 888 278 0254 | CONFERENCE CODE: 198675

The public may attend this meeting in person at either above locations and/or remotely via call-in or ZOOM.

AGENDA ITEMS

Items may be taken out of order based on the business of the day and preference of the Committee.

1. INTRODUCTIONS

Call to order and roll call.

2. PUBLIC COMMENT

Comments on any item under the jurisdiction of the Committee and not on this agenda (speakers may be limited to two (2) minutes).

3. RECEIVE and APPROVE the Record of Action for the February 21, 2024 Contra
Costa Resilient Shoreline Ad Hoc Committee Meeting.

Attachments: Meeting Minutes 02.21.24

North Richmond CSAP & Living Levee - CCC SLR Ad Hoc

2 21 2024

RSAP ContraCostaCounty Presentation 2.21.2024 Final

2024 02 21 W E County ART Studies Summary

4. RECEIVE Presentation on "Delta Adapts" a draft adaptation plan being developed by the Delta Stewardship Council.

24-1119

Attachments: DSC Delta Adapts Presentation

5. RECEIVE report on Staff Activities that support the Contra Costa Resilient Shoreline Ad Hoc Committee.

24-1120

Attachments: Staff Activities

ADJOURN until the next Contra Costa Resilient Shoreline Ad Hoc Committee meeting to be held on May 9, 2024, at 10:00am.

GENERAL INFORMATION

This meeting provides reasonable accommodations for persons with disabilities planning to attend a the meetings. Contact the staff person listed below at least 72 hours before the meeting. Any disclosable public records related to an open session item on a regular meeting agenda and distributed by the County to a majority of members of the Committee less than 96 hours prior to that meeting are available for public inspection at 1025 Escobar St., 4th Floor, Martinez, during normal business hours. Staff reports related to items on the agenda are also accessible on line at www.co.contra-costa.ca.us.

HOW TO PROVIDE PUBLIC COMMENT

Persons who wish to address the Committee during public comment on matters within the jurisdiction of the Committee that are not on the agenda, or who wish to comment with respect to an item on the agenda, may comment in person, via Zoom, or via call-in. Those participating in person should offer comments when invited by the Committee Chair. Those participating via Zoom should indicate they wish to speak by using the "raise your hand" feature in the Zoom app. Those calling in should indicate they wish to speak by pushing *9 on their phones.

Public comments generally will be limited to two (2) minutes per speaker. In the interest of facilitating the business of the Board Committee, the total amount of time that a member of the public may use in addressing the Board Committee on all agenda items is 10 minutes. Your patience is appreciated. Public comments may also be submitted to Committee staff before the meeting by email or by voicemail. Comments submitted by email or voicemail will be included in the record of the meeting but will not be read or played aloud during the meeting.

For Additional Information Contact:

Ryan Hernandez (925)655-2919



CONTRA COSTA COUNTY

1025 ESCOBAR STREET MARTINEZ, CA 94553

Staff Report

File #: 24-1118 Agenda Date: 4/17/2024 Agenda #: 3.

CONTRA COSTA RESILIENT SHORELINE AD HOC COMMITTEE

Meeting Date: April 17, 2024

Subject: Record of Action from February 21, 2024, Meeting

Submitted For: John Kopchik | DEPARTMENT OF CONSERVATION & DEVELOPMENT DIRECTOR

Department: DEPARTMENT OF CONSERVATION & DEVELOPMENT

Presenter: Ryan Hernandez | DEPARTMENT OF CONSERVATION & DEVELOPMENT

Contact: Ryan Hernandez (925)655-2919

Referral History:

County Ordinance requires that each County body keep a record of its meetings. Though the record need not be verbatim, it must accurately reflect the agenda and the decisions made in the meeting.

Referral Update:

Attached is the Record of Action for the February 21, 2024, Contra Costa Resilient Shoreline Ad Hoc Committee meeting.

Recommendation(s)/Next Step(s):

RECEIVE and APPROVE the Record of Action for the February 21, 2024, Committee Meeting with any necessary corrections.

Fiscal Impact (if any):

N/A

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Meeting Minutes - Draft

CONTRA COSTA COUNTY Contra Costa Resilient Shoreline Ad Hoc Committee

Supervisor John Gioia, District 1, Chair Supervisor Diane Burgis, District 3, Vice Chair

Wednesday, February 21, 2024

2:00 PM

District 1 Office: 11780 San Pablo Avenue, Suite D El Cerrito, CA 94530 |

District 3 Office: 3361 Walnut Blvd. Suite140, Brentwood, CA 94513

ZOOM LINK

https://cccounty-us.zoom.us/j/83333870249

| Dial: 888-278-0254 | ACCESS CODE: 841892

The public may attend this meeting in person at either above locations and/or remotely via call-in or ZOOM.

AGENDA ITEMS

Staff Present: Ryan Hernandez | CC Resilient Shoreline Ad Hoc Committee Staff

Attendees Present: Raquel Caicedo, Nicole Shimizu, Emily Groth, Graham Laird-Prentice,

Mithun, Naama Raz-Yaseef, Jaclyn Mandoske, Dana Brechwald, Peter Meyers, John Kopchik, Michael Kent, Wade Finlinson, Sarah Duckler, Deanna Sereno, Aundi Mevoli, Paul Seger, Mariah Padilla, C Yote, Joe Neugebauer, Justin

Lovell, Juliana González

Present

John Gioia, and Diane Burgis

1. INTRODUCTIONS

Meeting called to order at 2:01:00PM PST.

The Committee ACCEPTED the nomination of Supervisor John Gioia to resume as the Resilient Shoreline Chair for the 2024 Calendar year.

The Committee ACCEPTED the nomination of Supervisor Diane Burgis to resume as the Resilient Shoreline Vice Chair for the 2024 Calendar year.

2. PUBLIC COMMENT

No public comment.

3. RECEIVE and APPROVE the Record of Action for the October 12, 2023 Contra Costa

Resilient Shoreline Ad Hoc Committee Meeting.

Attachments: 2023-10-12 CC Resilient Shoreline Ad Hoc Committee Draft Minu

2023 10 12 CCC Ad Hoc BCDC Presentation 2023 10 12 SLR Grants DCD Presentation

The Committee unanimously ACCEPTED the February 21, 2024, Record of Action.

No public comment.

4. RECEIVE Presentation on the North Richmond Living Levee Project

Attachments: North Richmond CSAP & Living Levee - CCC SLR Ad Hoc

2 21 2024

The Committee expressed gratitude for the collaborative effort and extensive planning invested in various projects, particularly highlighting the Resilient by Design initiative; adding emphasis to the health benefits and community pride associated with projects like trails, while raising concerns about the accuracy of climate change modeling and the adequacy of current infrastructure plans.

Staff provided updates on sea level rise modeling and mentioned the ongoing review of the Draft Ocean Protection Council guidance and discussed the design of the Lower Walnut Creek project to withstand sea level rise for the next 100 years, emphasizing the importance of long-term planning and adaptation.

The Committee commended the team's effort and encouraged continued collaboration and dedication to ongoing projects and stressed the importance of accurate climate change modeling and DIRECTED staff to ensure thorough review and consideration of future projections in infrastructure planning.

The Committee ACCEPTED the report and DIRECTED staff to monitor updates in sea level rise modeling and coordinating with relevant agencies to incorporate the latest guidance into ongoing projects, emphasizing the need for proactive planning to address long-term resilience while also considering cost-effectiveness.

PUBLIC COMMENTS include expressed gratitude for the collaborative efforts and highlighted the potential of multi-benefit projects along the shorelines of Contra Costa County, emphasizing the importance of considering public access and employment opportunities in shoreline adaptation projects. Additionally, stressing the need to connect these projects to immediate community benefits as well as future stewardship and employment opportunities and noted the challenges of integrating various funding sources and emphasized the importance of collaboration with organizations such as nonprofits and local community colleges to create a workforce capable of maintaining and expanding these spaces; highlighted the significance of making projects relevant to the communities being served to enhance community engagement.

Side DISCUSSIONS provided by the Committee include the need for a dedicated section on the county website regarding sea level rise. The Committee proposed the creation of a webpage where presentations and related materials on sea level rise can be posted for public access. The Committee recognized the importance of transparency and public

engagement, suggesting to have separate pages for the Resilient Shoreline Ad Hoc Committee and sea level rise information.

The Committee expressed enthusiasm for the idea of creating a central hub for information on sea level rise in Contra Costa County.

The Committee DIRECTED staff to gather suggestions for website content, to explore the technical feasibility and resources required to create, implement, and maintain the proposed website pages (i.e. the "What's going on in Contra Costa" webpage, the Resilient Shoreline Ad Hoc Committee page, and dedicated page for sea level rise information), while ensuring communication with relevant stakeholders and the public regarding the availability of these website resources.

5. RECEIVE Presentation on the Regional Shoreline Adaptation Plan's "One Bay Vision".

Attachments: RSAP ContraCostaCounty Presentation 2.21.2024 Final

The Committee expressed the importance of ensuring community preparedness, avoiding redundancy in efforts and highlighted the unique relationships with water and sea level rise, and announced plans for a future presentation on long-term planning. They proposed the formation of a larger elected officials work group in Contra Costa County to focus on shoreline issues, involving representatives from each shoreline cityn and emphasized the need for action by cities along the bay and suggested a Contra Costa-specific group to inform and coordinate efforts.

The Committee agreed with the proposal and noted the varying levels of engagement from different cities in addressing sea level rise and suggested bringing in city managers and staff from shoreline cities to actively participate in the work group.

Staff expressed support for the idea and confirmed ongoing efforts to connect with city managers and public works directors in shoreline cities.

The Committee suggested including representatives from unincorporated areas, such as the MAC, in the work group, recognizing the significance of waterfront areas in those regions, echoing the importance of involving both incorporated and unincorporated areas in the work group, emphasizing potential partnership opportunities to support communities with limited capacity.

PUBLIC COMMENTS include expressed appreciation for the presentation and highlighted the importance of funding and stakeholder engagement in project success and inquired about how the presented work could support projects like the North Richmond Living Levee Project, in securing funding and addressing polluted areas.

Jaclyn Mandoske from BCDC addressed the concerns regarding funding, explaining the various funding sources available and the eligibility criteria for accessing funds and highlighted the role of BCDC guidelines in determining eligibility for certain funding opportunities.

Dana Brechwald from BCDC added to the discussion on funding, emphasizing the need

for a regional funding structure and criteria to prioritize projects and minimize competition among cities and counties.

Jaclyn Mandoske also addressed the concern of enforcement, acknowledging the challenge and discussing BCDC's efforts to promote collaboration and partnership with other agencies to address issues of pollution and enforcement.

The Committee emphasized the importance of collaboration and partnership among cities and counties to maximize funding opportunities and project success. They discussed the regulatory authority of BCDC and the need for greater regional authority to address sea level rise issues effectively.

The Committee expressed support for extending BCDC's jurisdiction to address sea level rise issues.

The Committee ACCEPTED the report and DIRECTED staff to establish a Contra Costa-specific elected officials work group to address shoreline issues, conduct outreach to relevant stakeholders, coordinate efforts between cities and unincorporated areas, and explore partnership opportunities to support communities with limited capacity to address shoreline challenges.

6. RECEIVE Presentation on Adapting to Rising Tides Vulnerability Assessment in Contra Costa County.

Attachments: 2024 02 21 W E County ART Studies Summary

The Committee commended the presentation for its comprehensive approach and suggested posting all presentations, including maps, on the county's sea level rise website for public access.

Staff confirmed the availability of the maps from Dana's October twelfth presentation and agreed to post all presentations from the October and current meetings on the website.

The Committee emphasized the importance of visual aids like maps for public understanding and accessibility and

PUBLIC COMMENT included interest in whether BCDC provides assistance to non-jurisdictional shoreline areas.

Dana Brechwald from BCDC clarified BCDC's planning and regulatory functions, highlighting their engagement beyond regulatory boundaries in shoreline planning.

Staff acknowledged BCDC's support in the East County Adapting to Rising Tides study and expressed gratitude for their expertise.

The Committee ACCEPTED the report and DIRECTED staff to post all presentations, including maps, from both the current meeting and the October meeting on county's sea level rise website for public access.

7. RECEIVE report on Staff Activities that support the Contra Costa Resilient Shoreline.

Attachments: 2024 02 21 CC Resilient Shoreline Staff Report

The Committee emphasized the need to form a public-private shoreline work group, similar to BCDC, involving various jurisdictions, public agencies, and private stakeholders.

Staff confirmed having a list of stakeholders to engage with and proposed considering different outreach methods, including in-person forums or letters.

The Committee ACCEPTED the report and DIRECTED staff to form a public-private shoreline work group, akin to BCDC, to engage various stakeholders, including jurisdictions, public agencies, and private entities, in efforts to enhance shoreline resilience.

No public comment.

8. ADJOURN until the next Contra Costa Resilient Shoreline Ad Hoc Committee meeting to be held on March 20, 2024, at 10:00am.

Meeting ADJOURNED at 3:58:58PM PST.







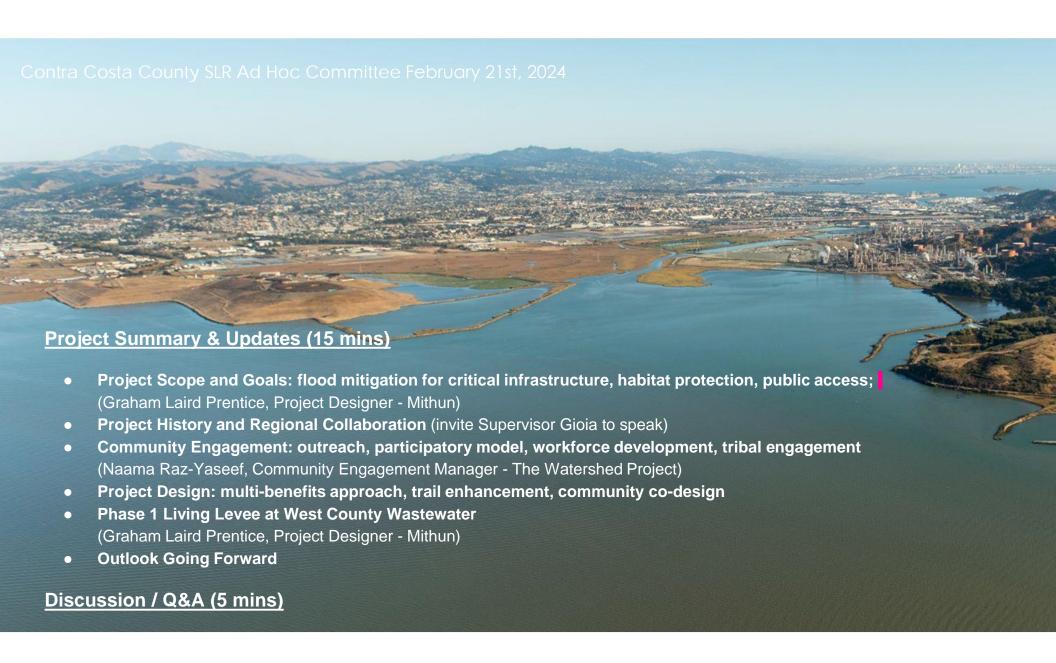


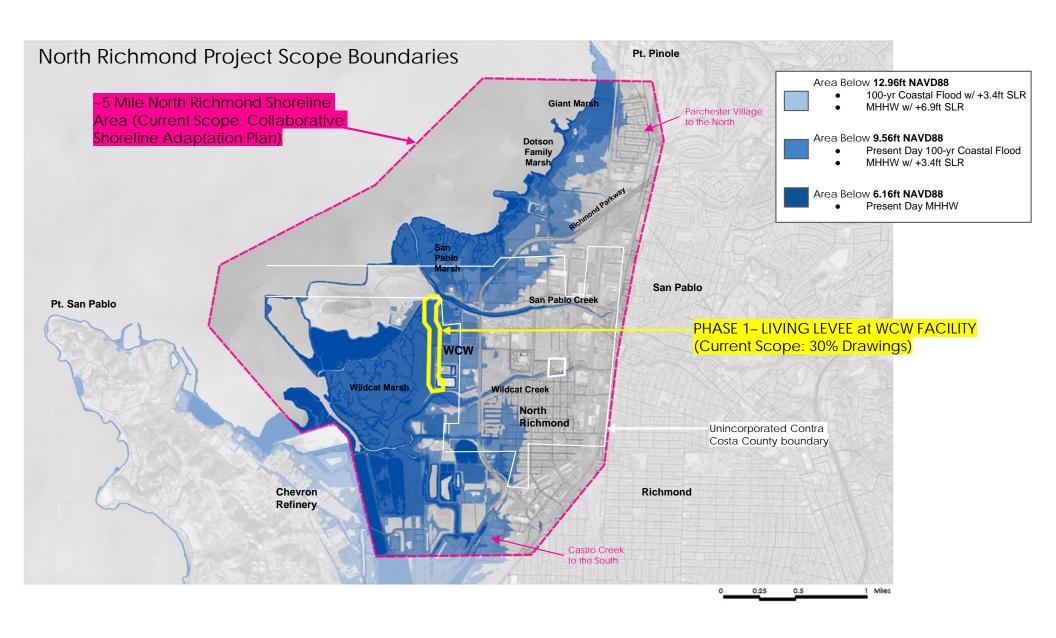




North Richmond Area Community Leaders





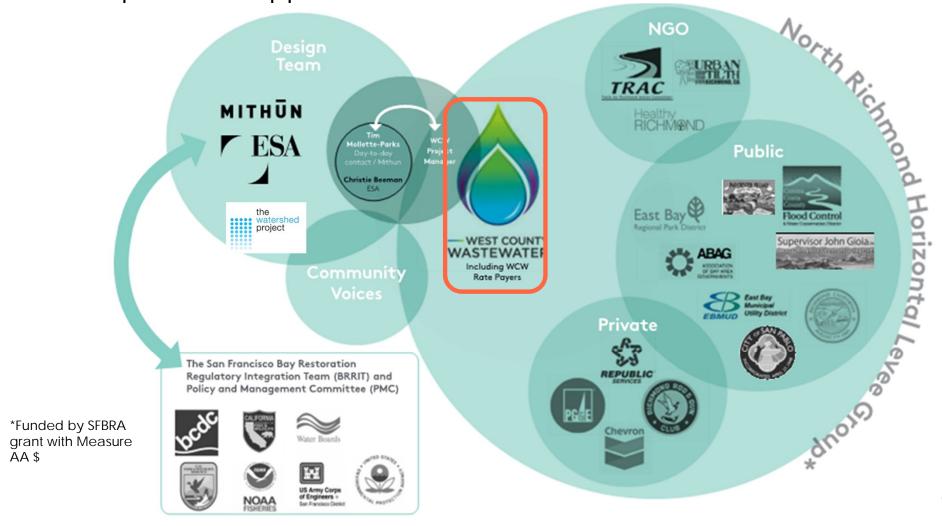


North Richmond Levee Working Group

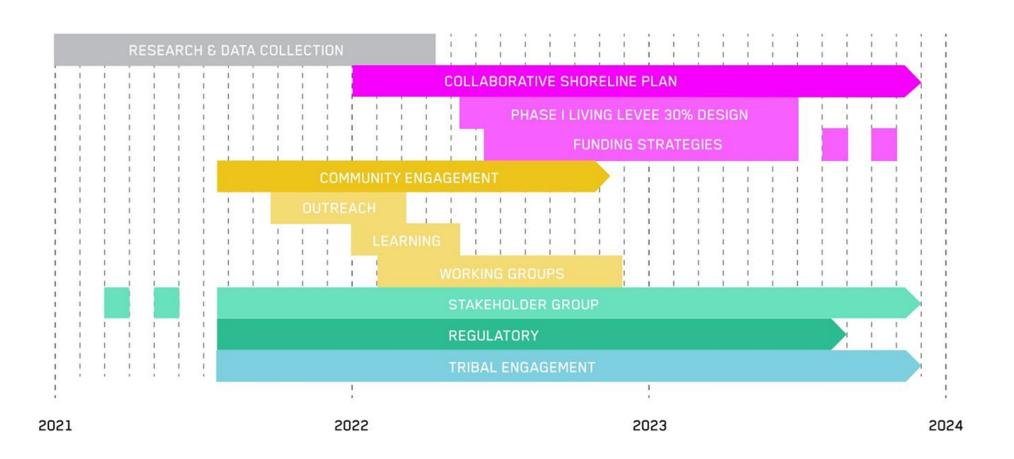


- Regular Meetings since September 2019, with lead from San Francisco Estuary Partnership & West County Wastewater
- Position Nature-based Adaptations for external funding opportunities
- Provide information, support to WCW Project Management Team throughout conceptual design process for a Prototype Living Levee & Shoreline Adaptation Planning effort

Partnerships-based Approach



Frameworks For Community Participation & Co-Design



Building on the Legacy of Organizing, Planning & Stewardship in North Richmond





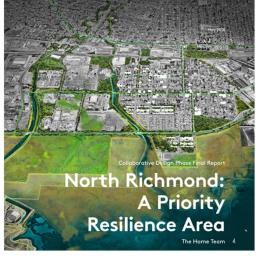




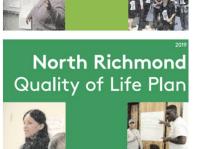
North Richmond Shoreline VISION

A community-based approach to planning for the upland transition zone

The North Richmond Shoreline should be managed, restored and protected to sustain multiple benefits including ecosystem services, community health, economic stability, local jobs, educational opportunities, safe places for recreation, vibrant natural habilatt and a source of clean, healthy food.









NORTH RICHMOND









COMMUNITY ENGAGEMENT

Outreach

Education

Gather community voices

COMMUNITY ENGAGEMENT

COMMUNITY DECISION-MAKING Outreach --> Recruitment

Education --> Workgroups

Gather community voices -->
Community-led research & design

Outreach

Adaptación de la costa de North Richmond:



Los miembros de la comunidad:

- -Trabajarán aproximadamente de 1 a 2 horas a la semana entre febrero y septiembre de 2022, con un receso de verano durante julio y agosto.
- -Completarán tareas incluyendo: coaprendizaje, recopilación y análisis de datos, participación de la comunidad, preparación de materiales y participación y dirección de reuniones.
- -Participarán en uno de los grupos de trabajo comunitarios siguientes: Imaginando soluciones, Encuesta comunitaria, o Sostenibilidad y crecimiento.

Los miembros de la comunidad recibirán un pago máximo de \$1,000 por el proyecto (\$50 por reunión)

La fecha límite de solicitud es el 31 de enero de 2022!!!

Realizaremos un webinar para proporcionar más información y responder cualquier pregunta el lunes $24\ de$ enero de $6\ a\ 7\ pm.$

Un enlace al webinar está disponible en TheWatershedProject.org/Shoreline.

Para más información y para aplicar, visite TheWatershedProject.org/Shoreline o contacte a Eunice Quintanilla a eunice@thewatershedproject.org o 707-726-2829 (mensaje de texto o llamada).



North Richmond Shoreline Adaptation Project:



Community Members can participate by:

- -Work approximately 1-2 hours a week between February and September 2022, with a summer break during July and August.
 -Complete tasks such as co-learning, gathering and analyzing data, conducting community engagement, preparing materials, and
- -Complete tasks such as co-learning, gathering and analyzing data, conducting community engagement, preparing materials, and participating in and leading meetings.
- -Participate in one of the following community workgroups: Envisioning Solutions, Community Survey, or Sustainability and Growth.

Community members will receive a maximum payment of \$1,000 for the project (\$50 per meeting).

The application deadline is January 31st, 2022!!!

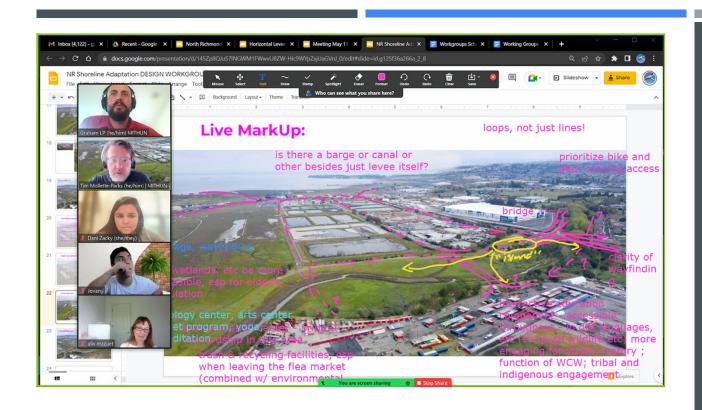
We will hold a webinar to provide more information and answer any questions on ${\bf Monday}, {\bf January~24th,~6-7~pm}.$

A link to the webinar is available at TheWatershedProject.org/Shoreline

For more information and to apply, visit TheWatershedProject.org/Shoreline or contact Eunice Quintanilla at eunice@thewatershedproject.org or 707-726-2829 (text or call).



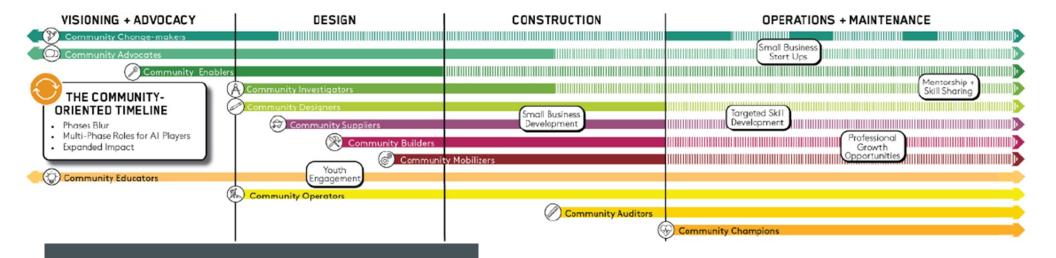




Explore, evaluate, and design equitable technical solutions for sea level rise.

WORKGROUP 1:

ENVISIONING DESIGN APPROACHES



WORKGROUP 2:

SUSTAINABILITY AND GROWTH

Thinking beyond construction to community stabilization and wealth-building

Identify mutual benefits and development opportunities (employment, housing, education)

WORKGROUP 3:
COMMUNITY SURVEY



Learned the theory of Monitoring and Evaluation



Decided on focus – Community Priorities and Preferences



Community leaders decided on methodology – Focus Group Discussions (FGD)



Co-designed tools



Community leaders selected Sample

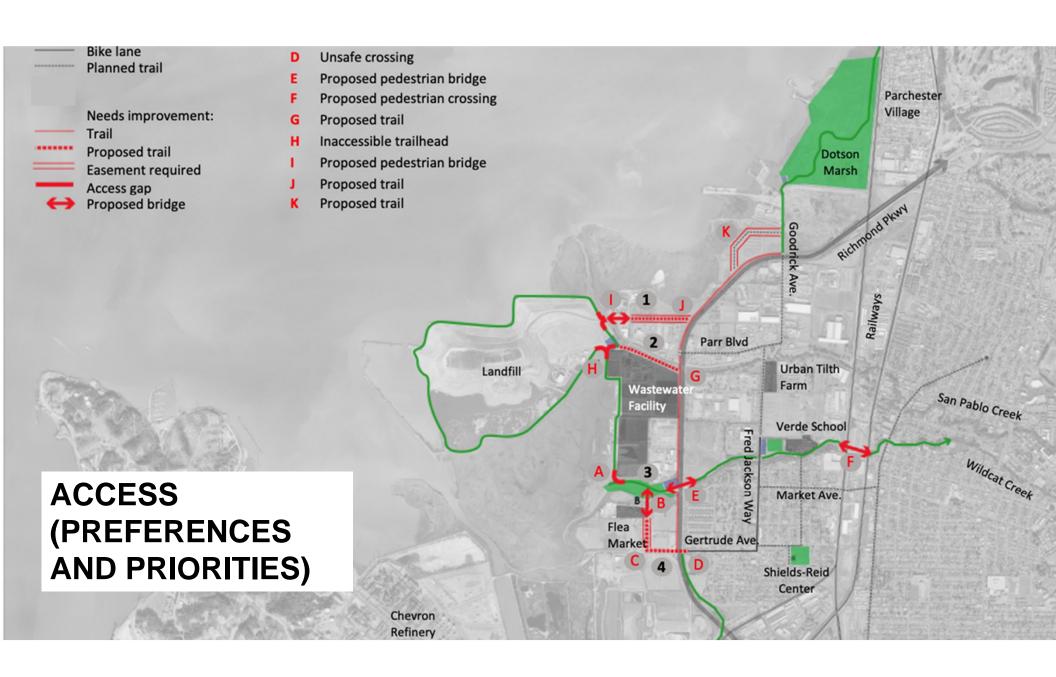


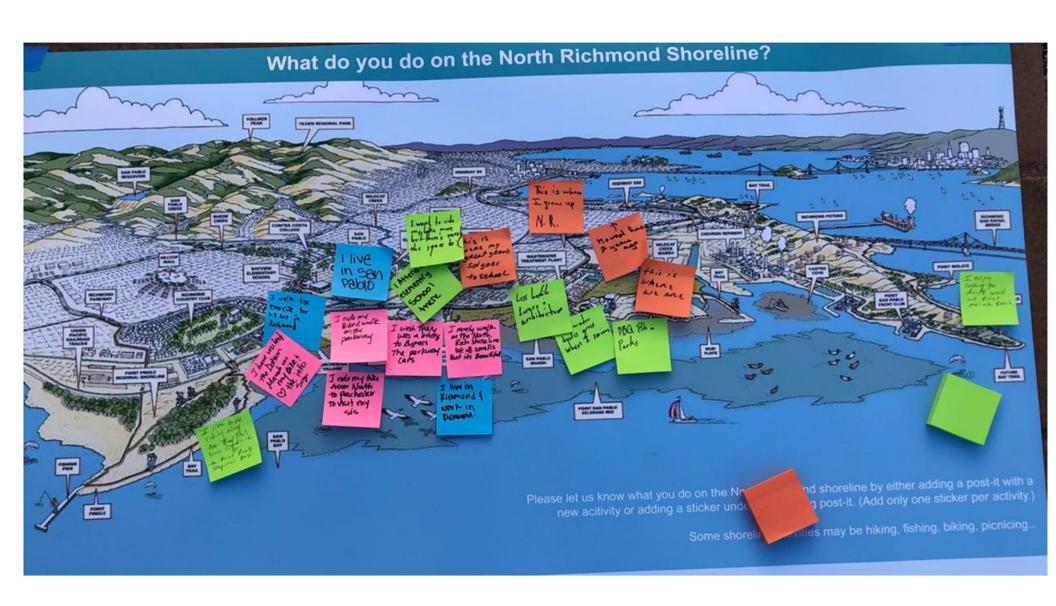
Community leaders facilitated FGDs

COMMUNITY SURVEY

- Do you currently use the shoreline today? If yes, where, and how?
- What type of services or activities would you like to see more of?

•	Boardwalk	H/M/L/N
•	Hiking trails	H/M/L/N
•	Biking trails	H/M/L/N
•	Interpretive signage on the history and nature of the area	
		H/M/L/N
•	Observation tower to see the Bay	H/M/L/N
•	Kayak/boat launch	H/M/L/N
•	Exercising opportunities/park	H/M/L/N
•	Restored wetland	H/M/L/N
•	Park for toddlers and small children	H/M/L/N
•	Activities for older children	H/M/L/N
•	Restaurants/food shacks	H/M/L/N
•	Community center:	H/M/L/N
	o Art and culture	H/M/L/N
	o Education	H/M/L/N
	 Ecology and climate 	H/M/L/N
	o Community development	H/M/L/N
•	Other, specify	H/M/L/N





Tribal Engagement



HOME ABOUT PROGRAMS

PROGRAMS EVENTS GET INVOLVED

NEWSLETTE



TRIBAL STORIES

FROM THE COAST AND WATERSHEDS OF NORTH RICHMOND, CALIFORNIA



Welcome to the showcase of the Confederated Villages of Lisjan Coastal Stories, created by The Watershed Project as part of the North Richmond Shoreline Adaptation Project.

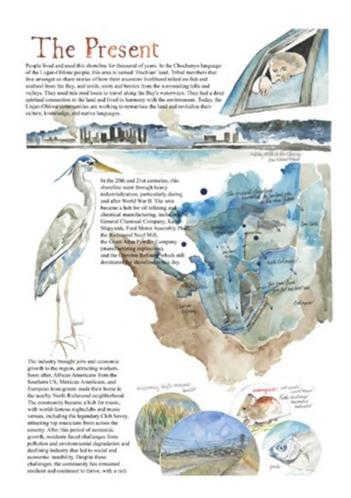


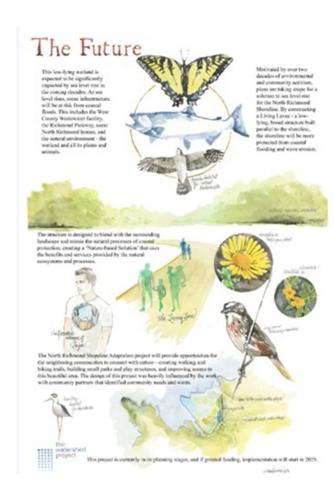
- Working with the team to develop concept designs for one or more site installation(s) to honor sites of cultural concern within the concept study area
- · Building an indigenous storytelling website
- Two site visits with members of the Confederated Villages of Lisjan (Ohlone)
- Zoom meetings and discussions to arrive at shared understanding of role as cultural advisors on the project
- Agreement to provide feedback and help develop interpretive material, including interviews with tribal members

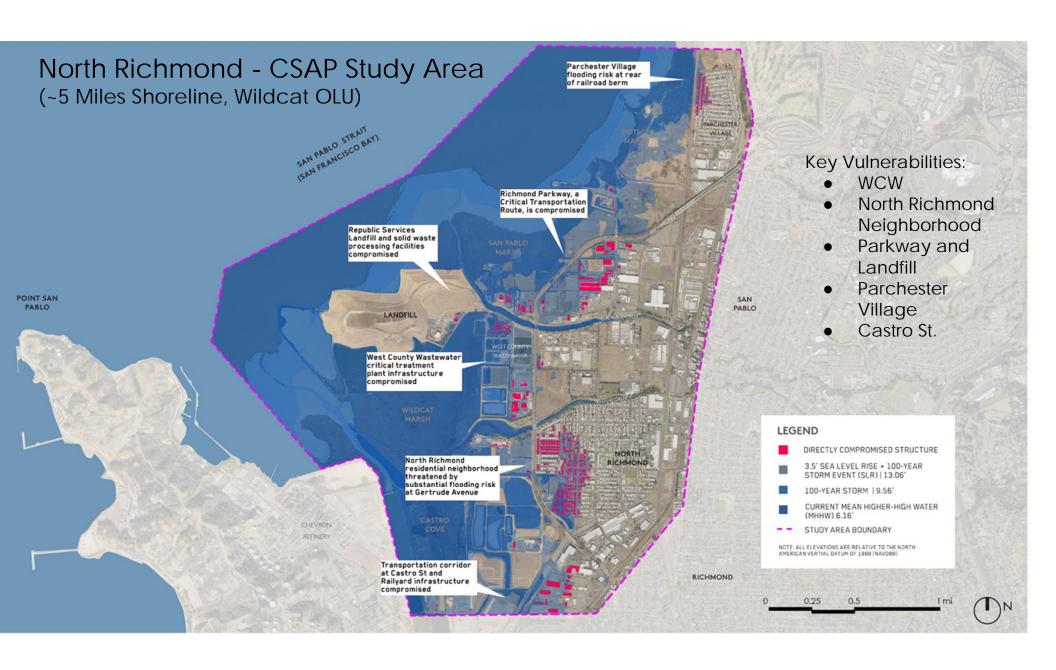


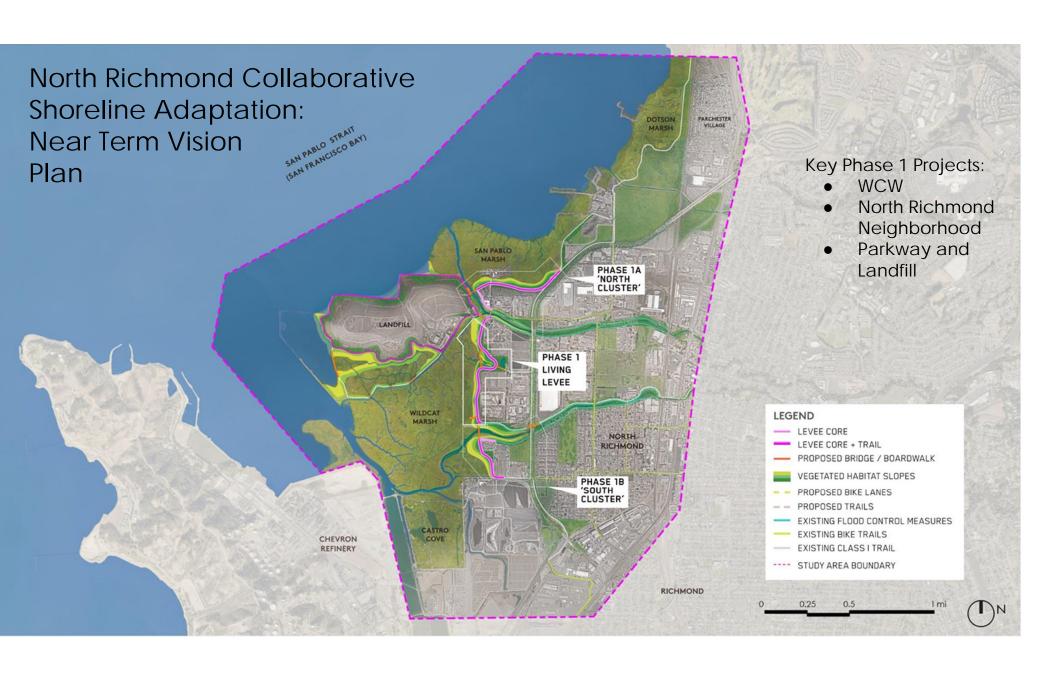
Education and Interpretation











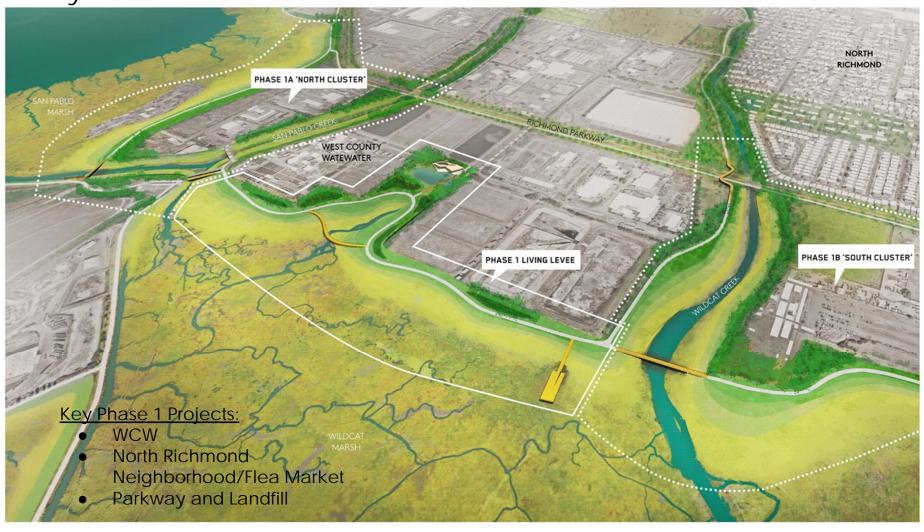
Near Term Vision: Phase 1 Living Levee at West County Wastewater

Multi-Benefit Adaptation Project to provide:

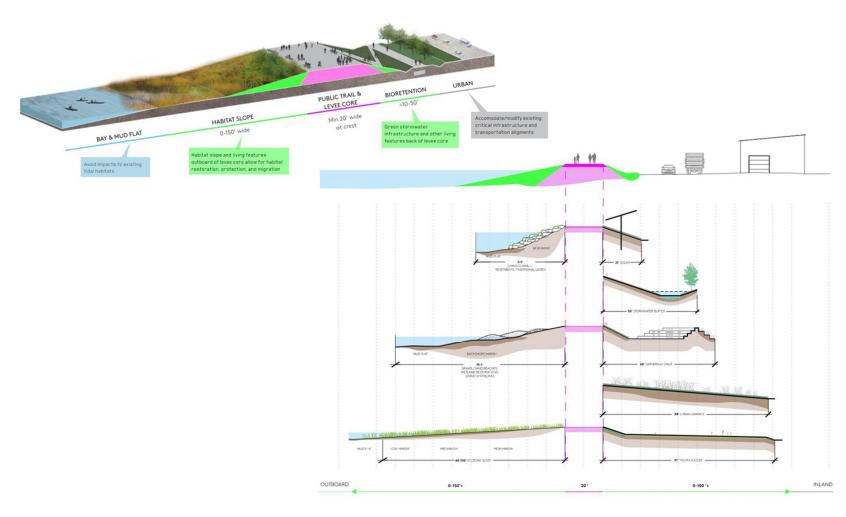
- Flood protection
- Habitat creation and migration
- Permanent, safe public access



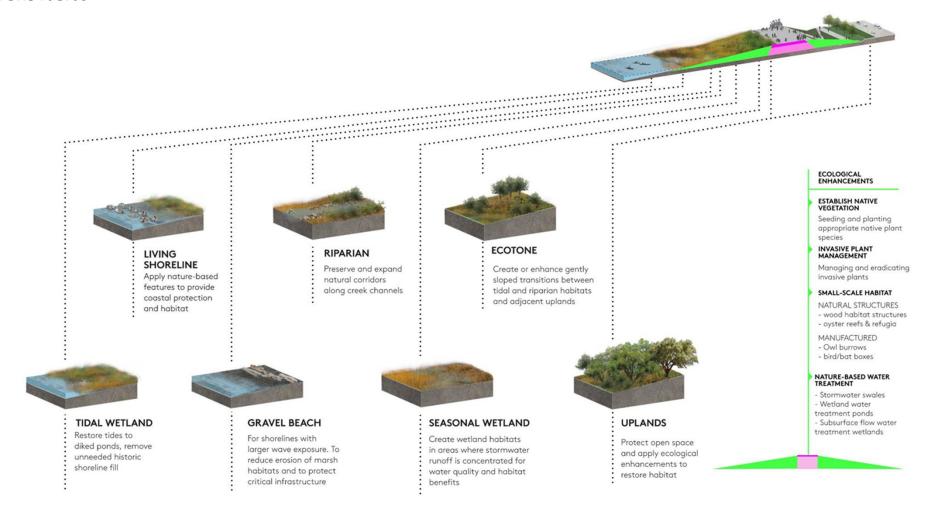
Summary of Near-Term Recommendations



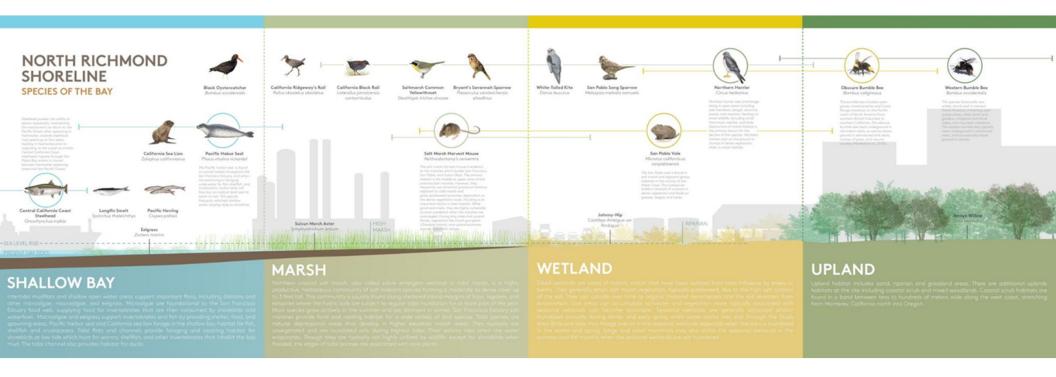
Living Levees: A Flexible Band



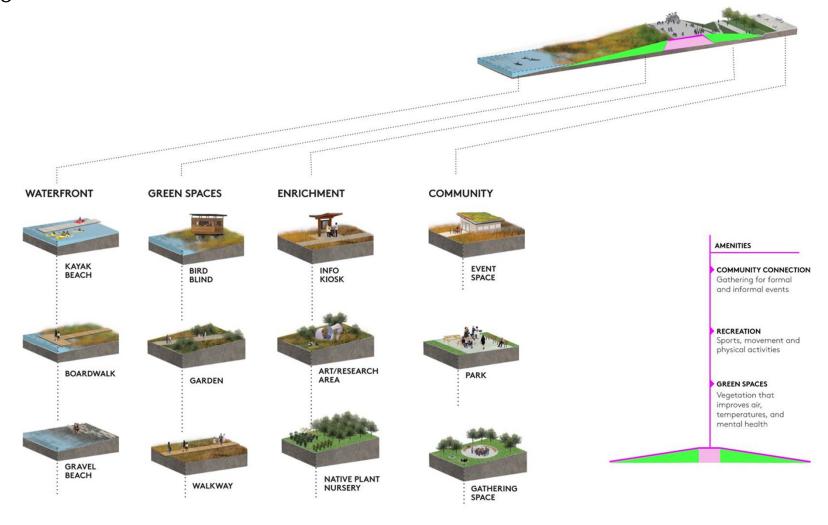
Habitats



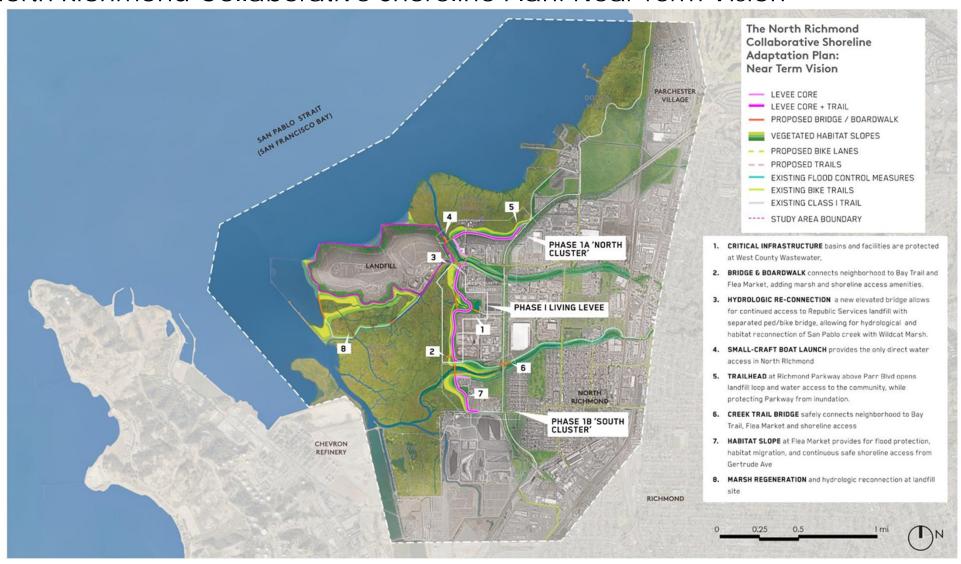
Habitats



Amenities



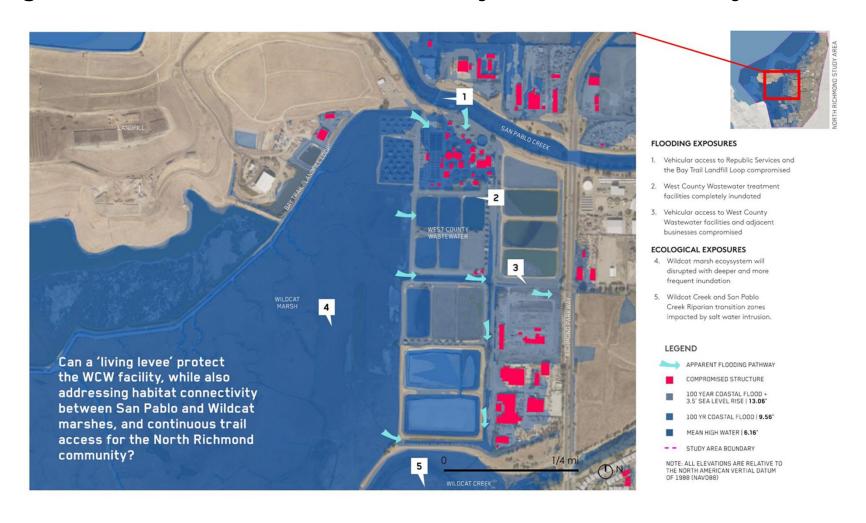
North Richmond Collaborative Shoreline Plan: Near Term Vision



Looking North over WCW



Enlarged View: Inundation at West County Wastewater vicinity



PHASE I – LIVING LEVEE AT WEST COUNTY WASTEWATER

SECTION "A" WILDCAT MARSH BOARDWALK & TRAIL ACCESS

SECTION "B" STORMWATER RETENTION

SECTION "C" EQUALIZATION BASIN

SEE SECTION ENLARGED EXHIBITS ON FOLLOWING PAGES . SEE APPENDIX FOR DESIGN DETAILS.

- LEVEE CORE

- LEVEE CORE + TRAIL

- PROPOSED BRIDGE / BOARDWALK

VEGETATED HABITAT SLOPES

- - PROPOSED BIKE LANES

-- PROPOSED TRAILS

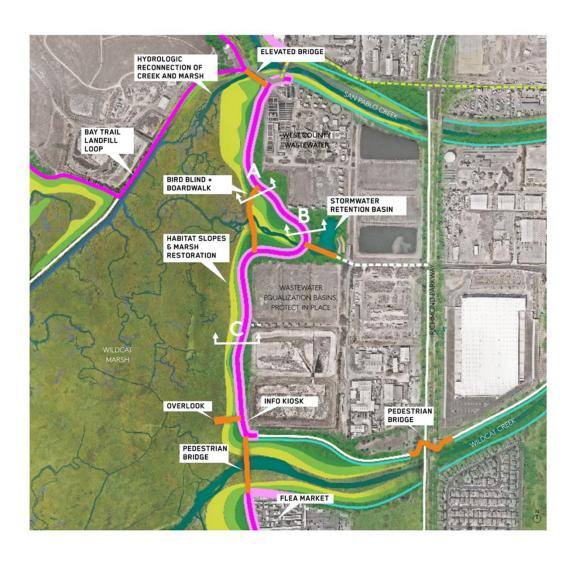
EXISTING FLOOD CONTROL MEASURES

- EXISTING BIKE TRAILS

- EXISTING CLASS I TRAIL

---- STUDY AREA BOUNDARY

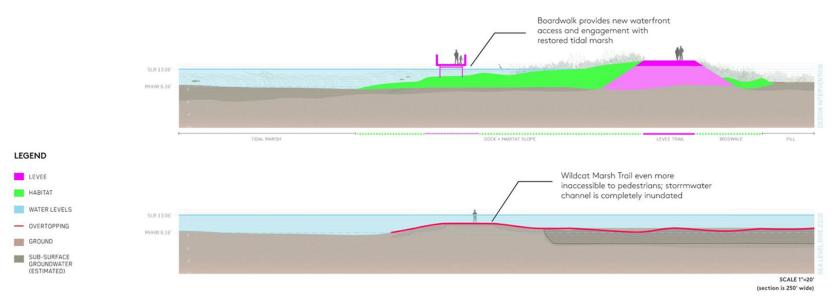




A Wildcat Marsh Boardwalk & Trail Access

OPENING THE WATERFRONT

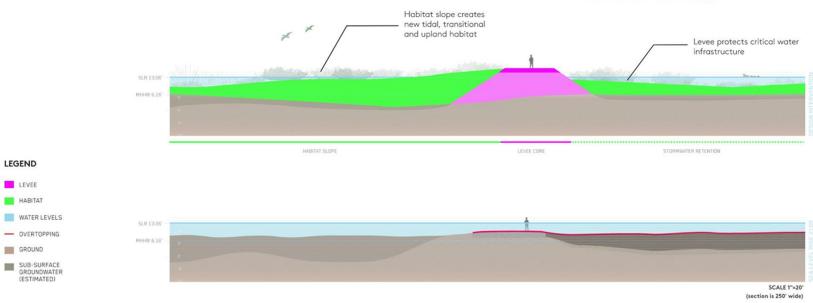




B Stormwater Retention

PROTECTING WATER AND ADDING HABITAT

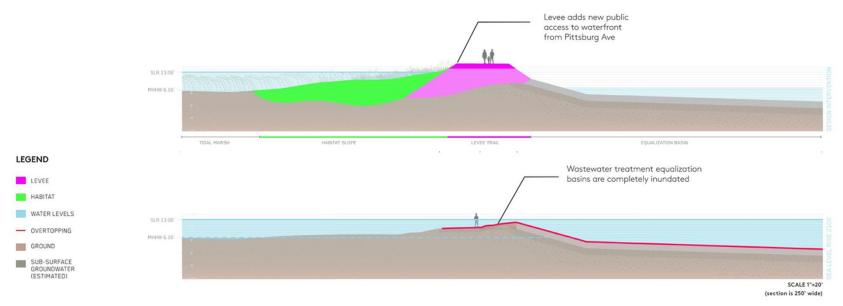




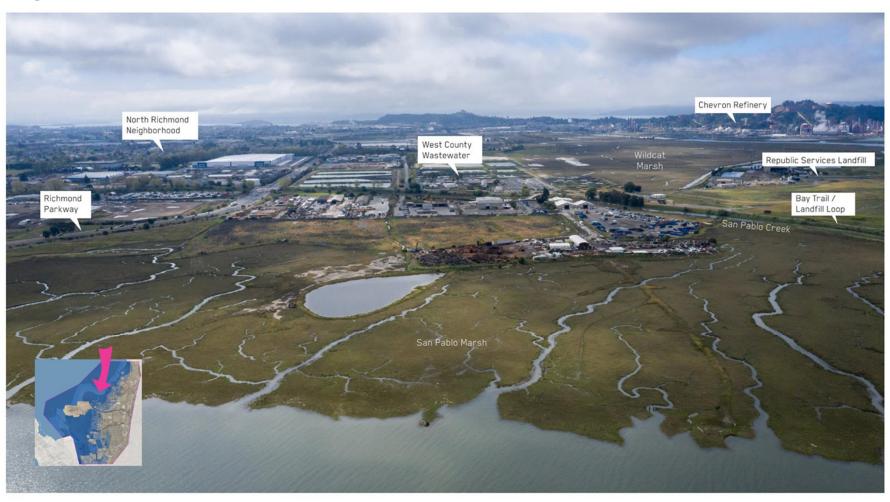
C Equalization Basin

INTEGRATING PERMANENT PUBLIC ACCESS WITH INFRASTRUCTURE

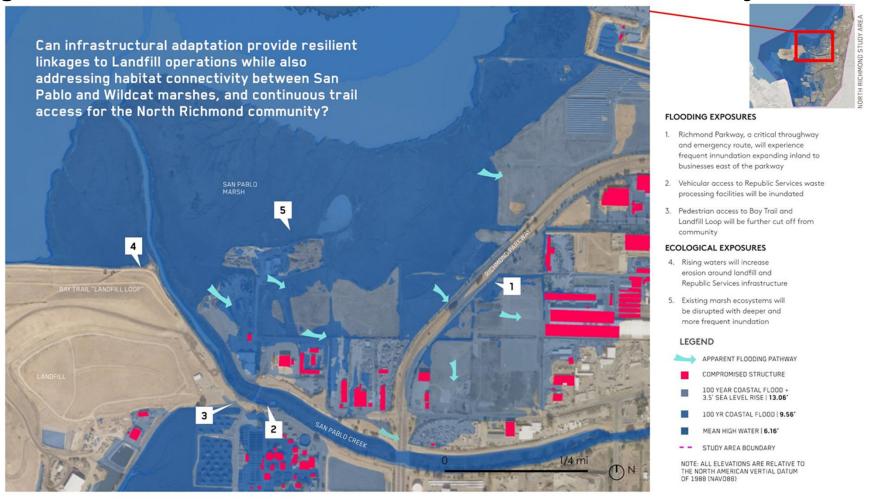




Looking South at San Pablo Marsh



Enlarged View: Inundation at San Pablo Marsh & Richmond Pkwy



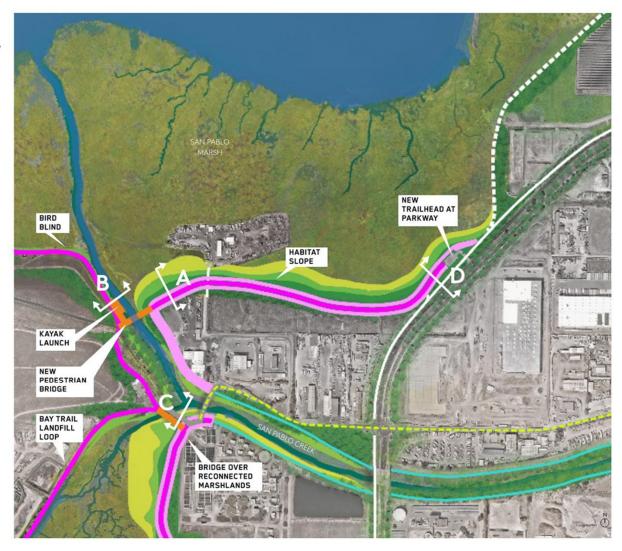
PHASE 1A: "CLUSTER NORTH" CONCEPT DESIGN

SECTION "A" REPUBLIC SERVICES
SECTION "B" SMALL-CRAFT LAUNCH
SECTION "C" MARSH RE-CONNECTION
SECTION "D" RICHMOND PARKWAY

SEE SECTION ENLARGED EXHIBITS ON FOLLOWING PAGES

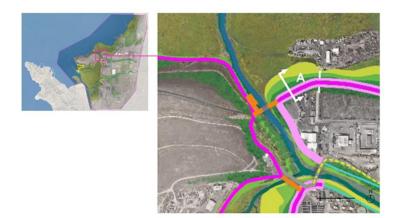
LEVEE CORE
LEVEE CORE + TRAIL
PROPOSED BRIDGE / BOARDWALK
VEGETATED HABITAT SLOPES
PROPOSED BIKE LANES
PROPOSED TRAILS
EXISTING FLOOD CONTROL MEASURES
EXISTING BIKE TRAILS
EXISTING CLASS I TRAIL
STUDY AREA BOUNDARY

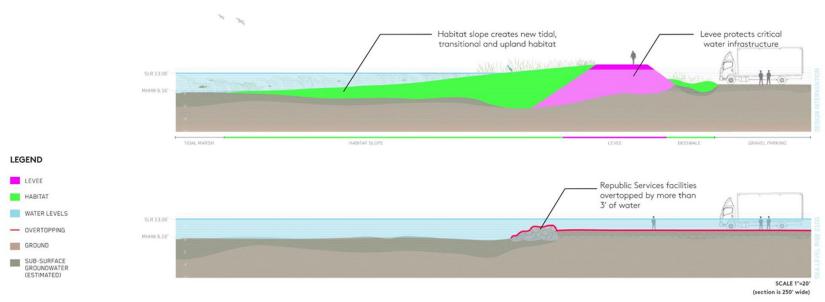




A Republic Services

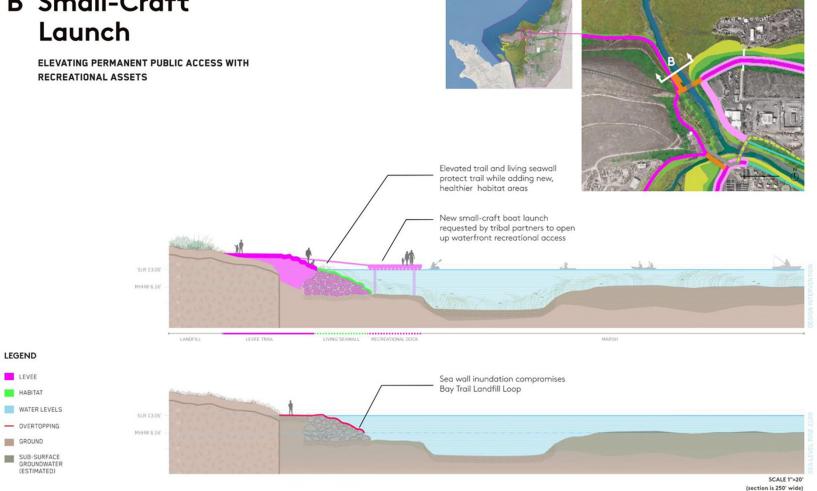
INTEGRATING HABITAT ADAPTATION, PERMANENT PUBLIC ACCESS WITH CURRENT FACILITIES

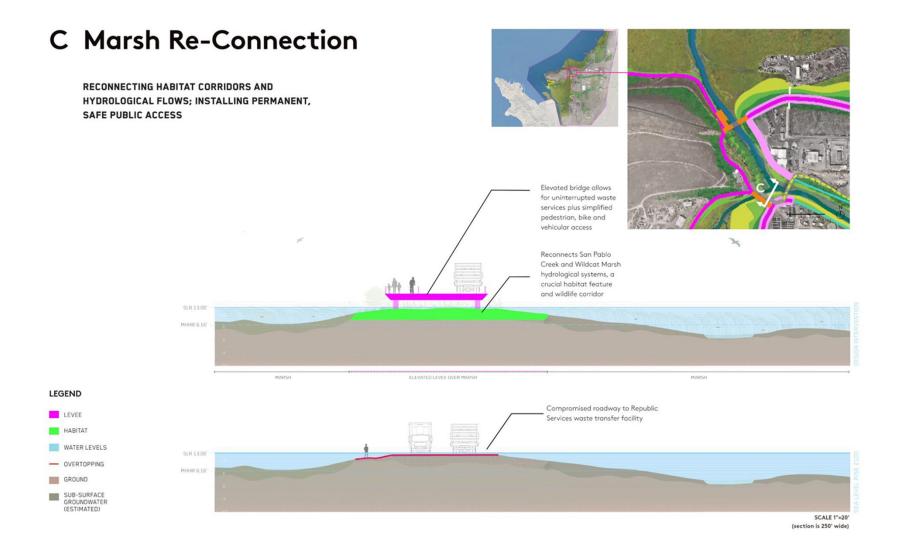




B Small-Craft Launch

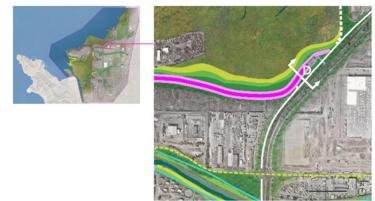
LEGEND LEVEE

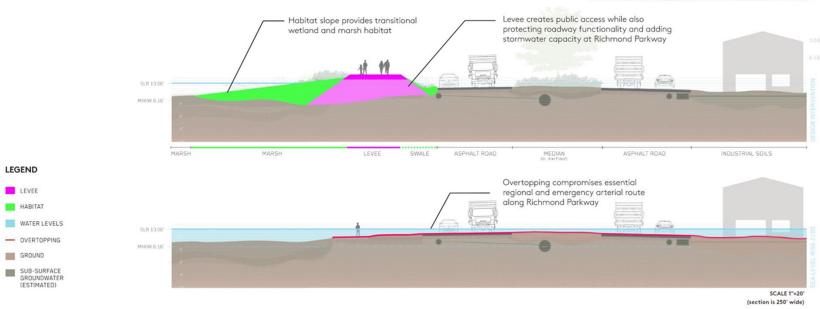




D Richmond Parkway

PROTECTING A CRITICAL TRANSIT CORRIDOR

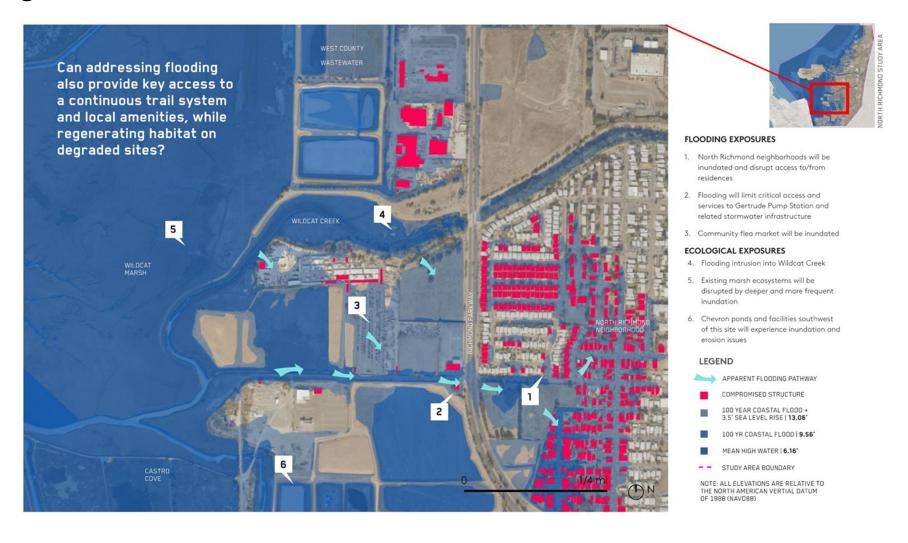




Looking West over North Richmond



Enlarged View: Inundation at North Richmond



PHASE 1B: "CLUSTER SOUTH" CONCEPT DESIGN

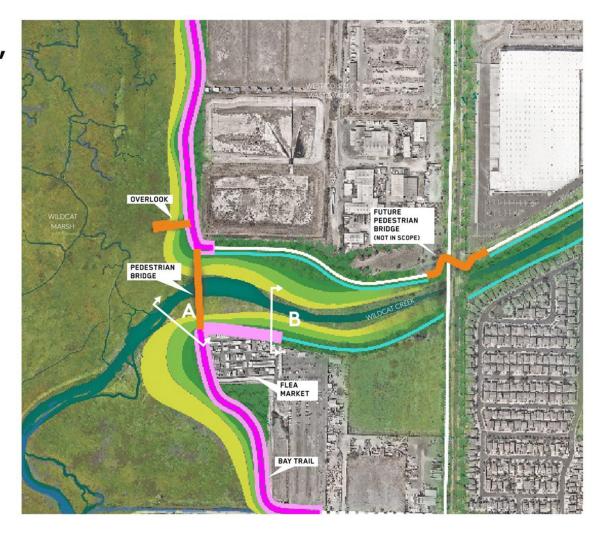
SECTION "A" MARKET-TO-TRAIL CONNECTION

SECTION "B" RIPARIAN HABITAT

SEE SECTION ENLARGED EXHIBITS ON FOLLOWING PAGES

LEVEE CORE
LEVEE CORE + TRAIL
PROPOSED BRIDGE / BOARDWALK
VEGETATED HABITAT SLOPES
PROPOSED BIKE LANES
PROPOSED TRAILS
EXISTING FLOOD CONTROL MEASURES
EXISTING BIKE TRAILS
EXISTING CLASS I TRAIL
STUDY AREA BOUNDARY

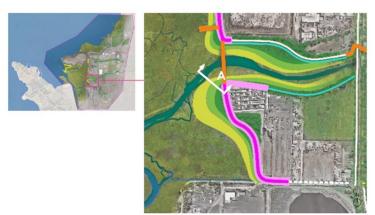


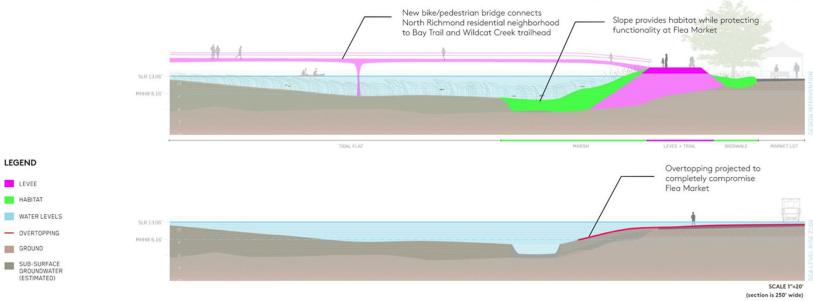


A Market-to-trail connection

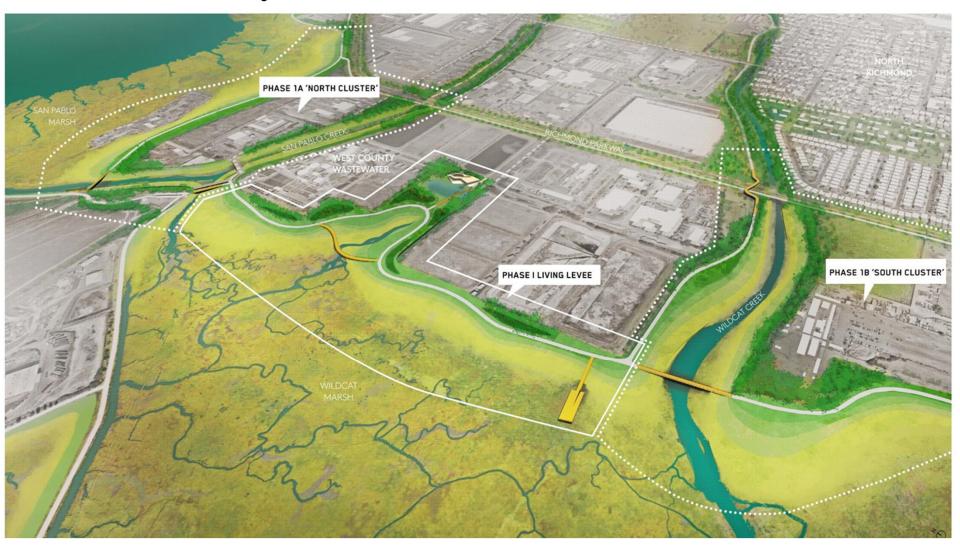
INSTALLING PERMANENT, SAFE PUBLIC ACCESS;

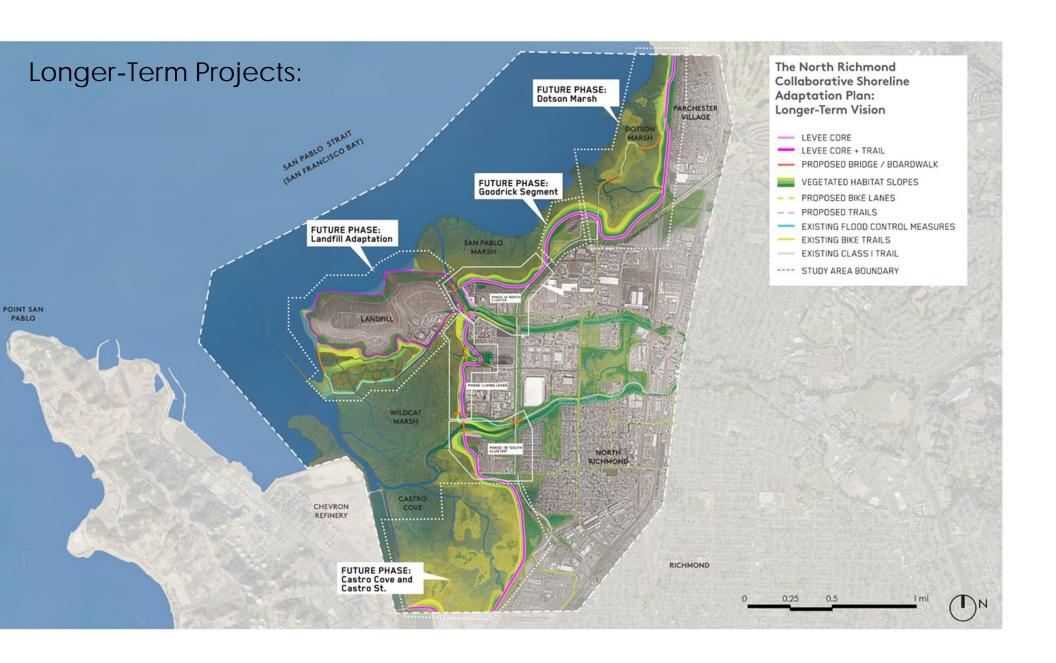
PROTECTING AN ESSENTIAL COMMUNITY ASSET



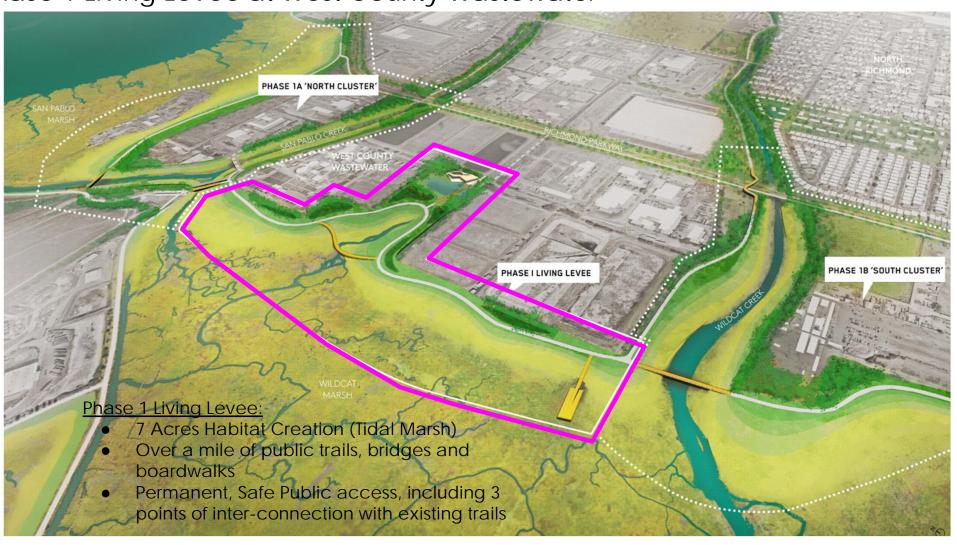


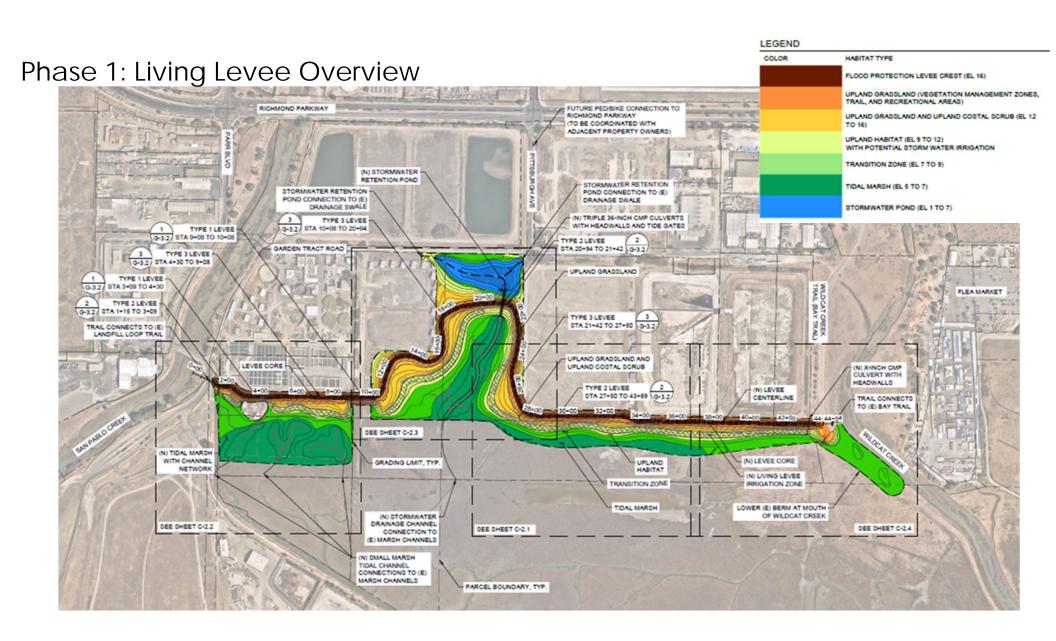
Critical Near-term Projects:



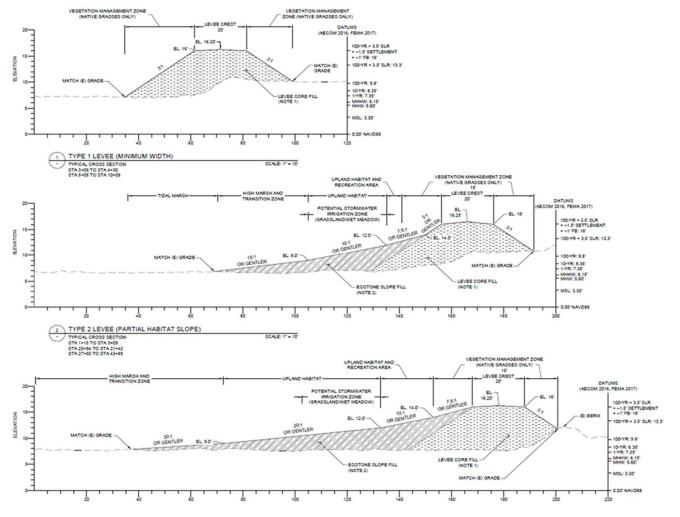


Phase 1 Living Levee at West County Wastewater





Phase 1: Living Levee Typical Cross-Sections



Type 1 - "Minimum Width" Levee

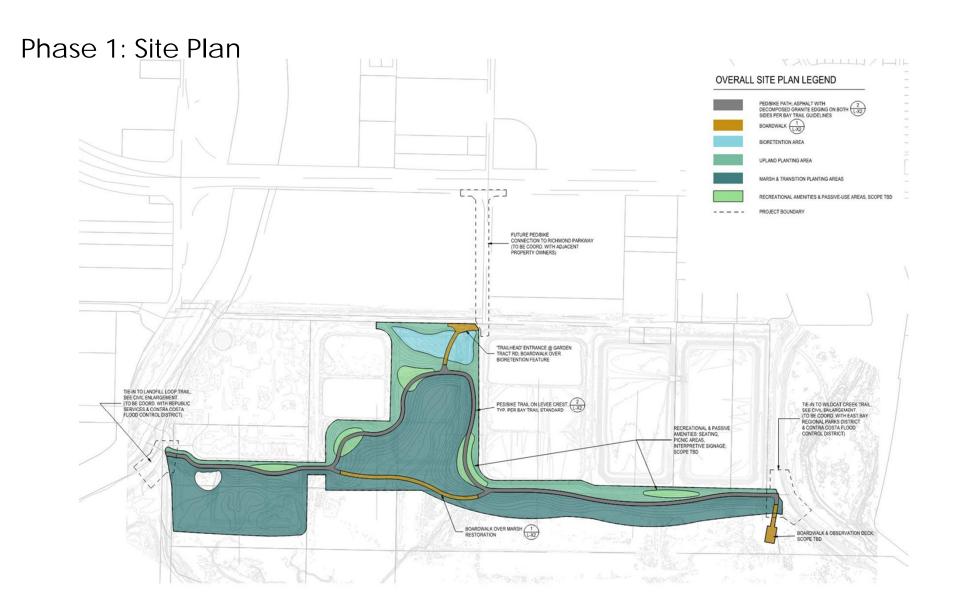
- In areas constrained by existing infrastructure or high-value habitats
- Minimum width needed for flood protection and SLR resilience
- Lowest ecological value

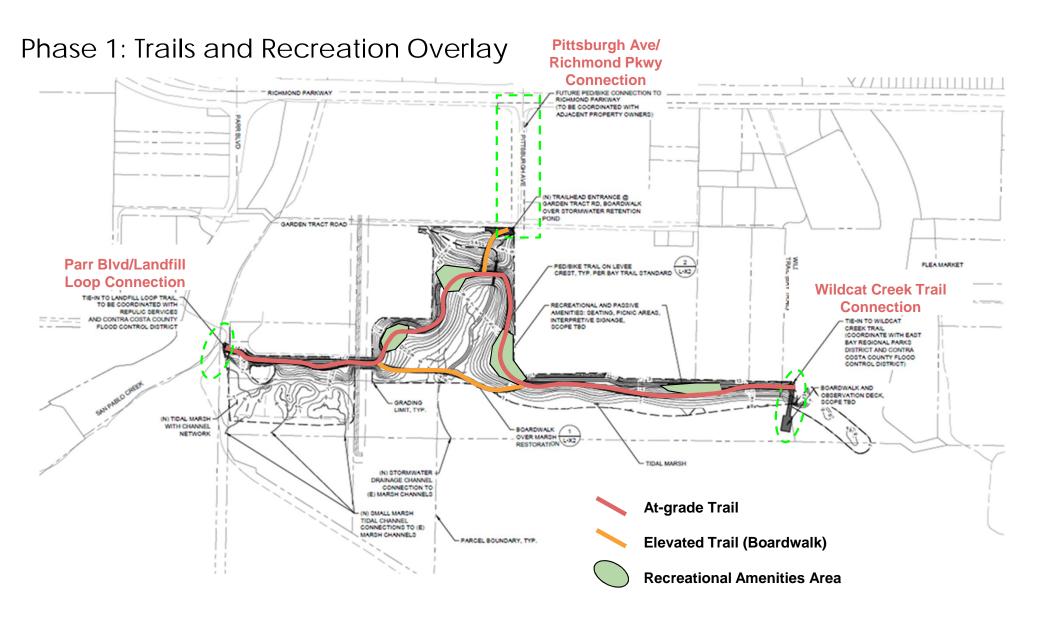
Type 2 - Partial Habitat Slope

- In areas with minor footprint constraints
- 50+ feet for transition-zone and upland native habitats
 - Potential for habitat irrigation with retained stormwater
- Recreation-zone limited to levee crest

Type 3 - Full Habitat Slope

- In areas with no footprint constraints
- 75+ feet for recreation, transition-zone, and upland native habitats
 - Potential for habitat irrigation with retained stormwater
- 25+ feet for recreation amenities (eg. picnic areas, vista points, etc).





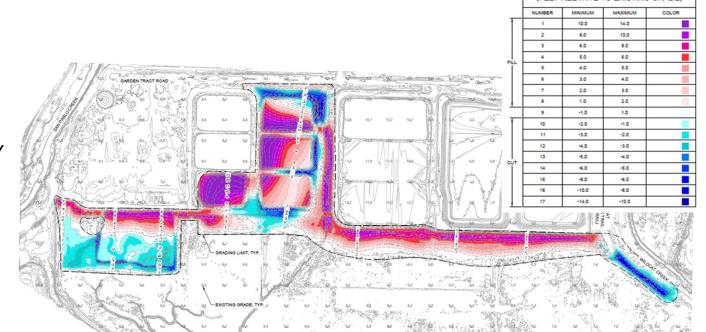
Earthwork Summary

Total Fill: 140,000 CY

- Levee Core: 50,000 CY

- Habitat Slope: 90,000 CY

Total Cut: 36,000 CY

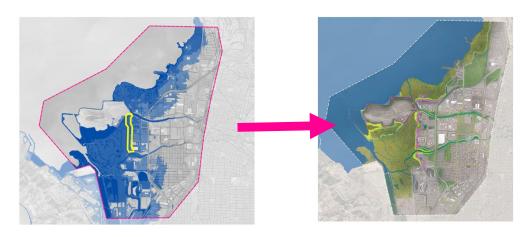


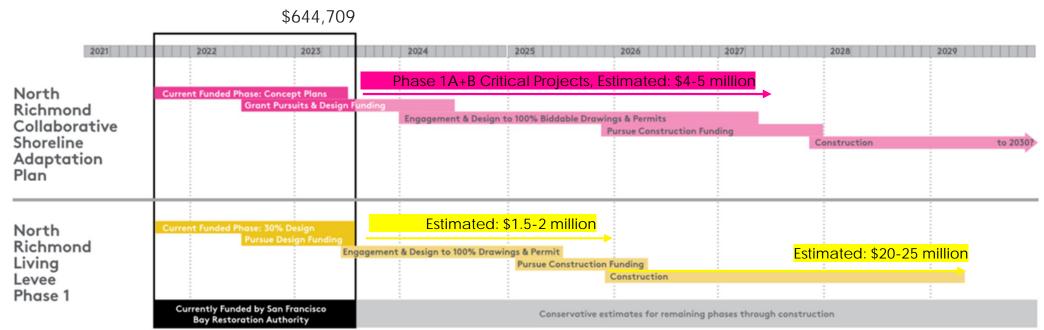
Required Imported Material: 104,000 CY

Levee Core: 50,000 CYHabitat Slope: 54,000 CY

Levee core material should meet USACE levee material specifications.

Looking Ahead...





Further Studies Required (Provisional/Anticipated)

Technical Studies for 60% to Final Design for Phase 1 Living Levee at West County Wastewater

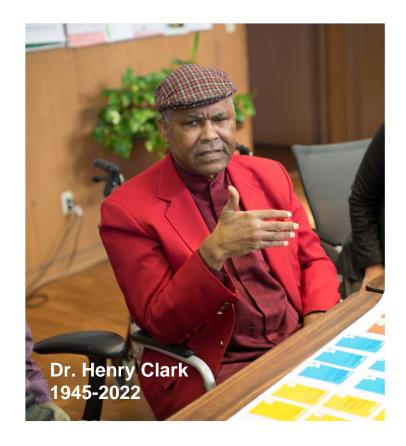
- Geotechnical Study
- Utilities coordination (PG&E, Chevron)
- At-grade and elevated trail section designs
- Aquatic Resources Delineation
- Phase 1 & 2 Soils Assessments
- Design for Community & Recreational Elements

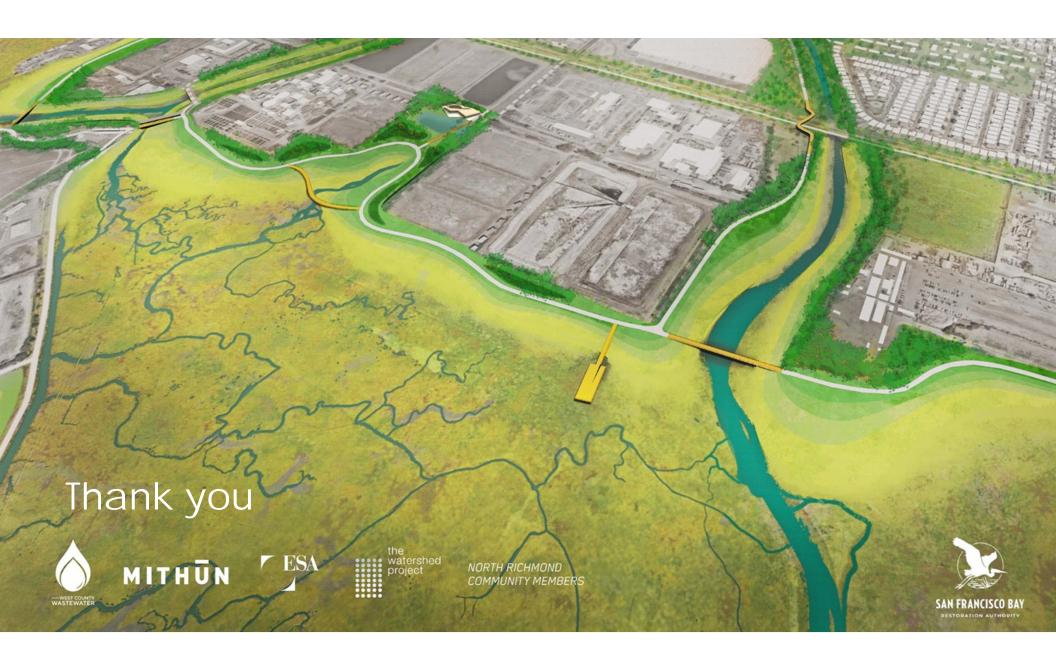
Additional Technical Studies for Feasibility of Phase 1A North and Phase 1B South Projects

- Phase 1 & 2 Soils Assessments
- Groundwater contamination testing
- Stormwater and drainage analysis
- Hydraulic/Flooding analysis
- +Community and Governance Capacity Building..
- +Stakeholder Engagement & Collaboration..

In Memoriam...











- Coordinated adaptation
- Priority resources to frontline communities
- Long-term health of wetlands
- Strategic implementation
- Common standards and methods
- Advance priority projects and funding
- Track and measure progress





PEOPLE

Action 1: Collaborate on a "one Bay" vision to adapt to rising sea levels.

Action 2: Elevate communities to lead.

Bay Adapt

Joint

Platform

Action 3: Broaden public understanding of climate change science and impacts.

> Action 4: Base plans and projects on the best science, data, and knowledge.

> > Action 5: Alian local and regional plans into a unified adaptation approach

Action 6: Figure out how to fund

Track and report progress to auide future actions.

Action 9:

PROGRESS

Action 8: Fund and facilitate faster

Action 7: Refine and adaptation.

THE RSAP IS **IMPLEMENTING BAY ADAPT**

- Action 1. Collaborate on a "One Bay" vision to adapt to rising sea levels.
- Action 5. Align local and regional plans into a unified adaptation approach.
- Action 8. Fund and facilitate faster adaptation projects.
- Action 9. Track and report progress to guide future actions.







GUIDING PRINCIPLES



Support socially vulnerable communities



Put nature first whenever possible



Solve interconnected problems at the same time



Practice inclusive, community-led governance and decision making



Support existing efforts but plan for the long term



Pick the right strategy for the right time at the right place





WHAT IS THE ONE BAY VISION?



BAY ADAPT GUIDING PRINCIPLES

shoreline adaptation will look like in the face of rising sea level, and guides the development of strategic regional priorities and local planning guidelines.







HOW WILL THE VISION INFORM ADAPTATION?





HOW WAS THE VISION DEVELOPED?

- Building upon existing regional plans and efforts
- > 500 people shared with us their values and visions for the future of the shoreline
 - 10 events
 - Public Workshop
 - Expert Advisory Group
 - Online survey



One Bay Vision for A Resilient Future Shoreline



b. CRITICAL INFRASTRUCTURE & SERVICES



c. ECOSYSTEM HEALTH & RESILIENCE



d. GOVERNANCE, COLLABORATION & FINANCE



a. COMMUNITY HEALTH &

WELLBEING

h. TRANSPORTATION & TRANSIT



ONE BAY VISION

g. SHORELINE CONTAMINATION



f. PUBLIC ACCESS & RECREATION



e. HOUSING, DEVELOPMENT & LAND USE



QUESTIONS TO KEEP IN MIND

- What do you like most about the One Bay Vision?
- Is there anything missing or unclear?
- Are you in favor of using this draft One Bay Vision as the basis for our next steps?

One Bay Vision for A Resilient Future Shoreline

As sea levels rise, the Bay Area's diverse communities come together to transform how we live, work, plan, and adapt along our changing shorelines.

In this future, communities are **healthy**, **safe**, and have greater access to the shoreline where they can feel connected to the Bay's edge and experience the beauty and wonder of thriving **habitats** that sustain our quality of life. Our region remains connected so that networks of people and goods can move with ease and get to the places they need to go. The services we rely upon keep our communities and economies running and are designed for the long-term. Achieving this future will require governments, the private sector, and communities to make a commitment to equity, address past harms, and take on complex, interrelated challenges together. A resilient future for the San Francisco Bay Area starts now and continues for generations to come.



a. Communities are healthy and vibrant.

To achieve this:

- Adapt Bay Area communities to safeguard all from the public health consequences of flooding and support healthy environments, public safety, and quality of life.
- Meaningfully engage and empower communities in adaptation decision-making processes, including language access.
- Address risks to essential community assets, services, and cultural resources.
- Prioritize economic opportunities from adaptation in disadvantaged communities through local hire, workforce development, and other community benefits.



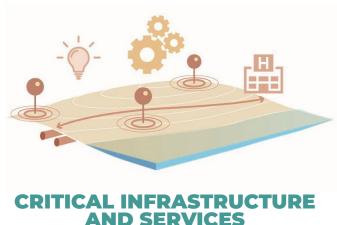
COMMUNITY HEALTH & WELLBEING



b. Critical services are reliable.

To achieve this:

- Adapt existing local and regional critical infrastructure systems to maintain or improve service continuity for everyone, while minimizing vulnerabilities of new infrastructure networks to future flooding hazards.
- Integrate flooding hazards into emergency management services planning and operations.
- Prioritize adaptations that address service deficiencies in underserved communities.







c. Healthy Baylands ecosystems thrive.

To achieve this:

- Protect, restore, and enhance Baylands ecosystems to improve their function, scale, biodiversity, and services.
- Prioritize nature-based solutions where possible and incorporate habitat connectivity, sediment management, and whole watershed approaches into shoreline planning and projects.
- Identify and facilitate opportunities for ecosystems to migrate landward to support and enhance natural adaptation processes.





d. Regional collaboration drives efficient and effective adaptation.

To achieve this:

- Ensure local and regional governments collaborate to address shared flood risk, identify multi-benefit adaptation opportunities, and avoid adverse flooding impacts to other jurisdictions.
- Identify and engage with Indigenous partners when planning, implementing, and managing shoreline adaptation projects.
- Support formal and informal multi-stakeholder collaborations equipped to effectively plan, fund, implement, maintain, and adaptively manage adaptation strategies over time.
- Improve funding and regulatory processes to expedite innovative and transformative adaptation projects with regional benefits.



GOVERNANCE, COLLABORATION & FINANCE



e. Places are designed for a changing shoreline.

To achieve this:

- Adapt existing development equitably and plan new and re-development projects to ensure community safety, equity, and Bay ecological health.
- Align land use planning with risk mitigation while considering long term economic vitality for all.
- Support the region in creating affordable housing and meeting state-mandated housing goals while preserving public trust uses of the Bay and reducing populations at risk of flooding.



HOUSING,
DEVELOPMENT & LAND
USE



f. The Bay shoreline is accessible to all.

To achieve this:

- Expand and improve diverse shoreline public access, such as recreation opportunities and water-dependent or culturally significant waterfront uses, through adaptation.
- Prioritize connecting disadvantaged neighborhoods to a healthy Bay, creating equitable access for diverse communities.
- Balance the needs for human enjoyment, sustenance, and cultural connection to the Bay with healthy ecosystems.



PUBLIC ACCESS & RECREATION



g. People and ecosystems are safe from contamination risks.

To achieve this:

- Collaborate with communities, scientists, industries, and government agencies to identify, adapt, and remediate contaminated shoreline sites.
- Prioritize remediation of contaminated sites in Environmental Justice communities, while minimizing transferring contamination burden.
- Integrate emerging science on shallow groundwater rise into planning and adaptation decisions.



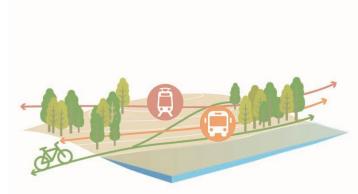




h. Safe and reliable transportation connects the region.

To achieve this:

- Adapt local and regional transportation systems to ensure safe and reliable connectivity by air, land, and water.
- Ensure continuity and equitable service in transit dependent communities.
- Identify and integrate multi-benefit opportunities, such as improving ecological health, increasing green infrastructure, and expanding public access, with transportation projects.
- Promote active, low emissions mobility options for environmental and economic benefit.

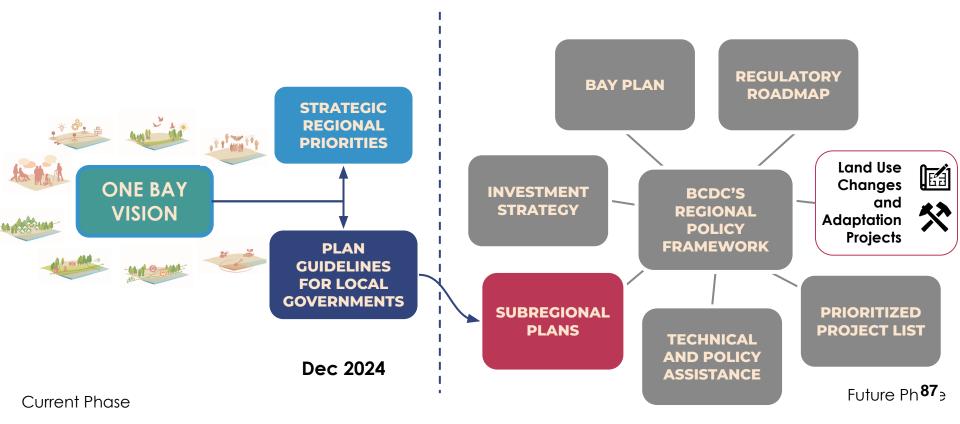


TRANSPORTATION & TRANSIT



HOW CAN WE MAKE THE VISION A REGIONAL REALITY?





NEXT STEPS

- Transition to developing guidelines and strategic priorities
- The RSAP is defining subregional plans with practitioners and stakeholders through upcoming focus groups in February/March 2024
- Hosting a second Public Workshop in spring on guidelines and strategic priorities
- Planning for spring local workshops in up to five communities with Community-Based Organization partners
- Elected Official engagement



THANK YOU!

Jaclyn Mandoske

Senior Climate Adaptation Planner
Bay Conservation and Development Commission
Jaclyn.mandoske@bcdc.ca.gov



Adapting to Rising Tides (ART)

February 21, 2024

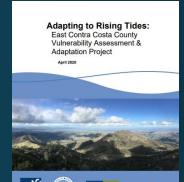
Two ART Studies for Contra Costa

West & Central County from Richmond to Bay Point (2017)

Adapting to Rising Tides: Contra Costa County Assessment and Adaptation Project







East County from Pittsburg to Clifton Court Forebay (2020)

Vulnerability Assessment

Sectors were analyzed through four lenses of vulnerability: information, governance, function, and physical condition

West County ART

- Contaminated Lands
- Energy
- Ground Transportation
- Housing
- Natural Areas
- Parks and Recreation
- People
- Public Services

- Business and Industry Seaport and Marine Oil Terminals
 - Water Management

East County ART

- Agriculture
- Business and Industry
 People
- Communities
- Community Engagement
- Critical Facilities and Services
- Delta Islands
- Energy
- Natural Areas and

Outdoor Recreation

- Transportation
- Water
- Wastewater
- Flood and Stormwater

Project Key Planning Issues

West County ART

- 1. Water-dependent Industries
- 2. Creek-side Communities
- 3. Access to Services
- 4. Ad-hoc Flood Protection
- 5. Jobs and Employment Sites
- 6. Parks and Open Space

East County ART

- 1. Shoreline Industries
- 2. Vulnerable Communities
- 3. Access to Services
- 4. Ad-Hoc Flood Protection
- 5. Parks and Open Space
- 6. Levees, Reclamation and Subsidence
- 7. Worsening Water Quality

Adaptation Responses Overarching Themes

West County ART

- Resilient transportation system
- 2. Integrated shoreline management
- 3. Targeted education and outreach; and
- 4. Improved emergency and hazard mitigation plans



East County ART

- 1. A collective decision-making framework to align various interests and agencies;
- 2. Strengthening relationships between agencies, NGOs, nonprofits, faith-based organizations, and community groups;
- 3. A resilient transportation and energy system;
- 4. Having a regional understanding and monitoring program for salinity, sea level rise, and levee stability;
- 5. Wetland and Delta island restoration;
- 6. Education and outreach; and
- 7. Creating a system of prioritization for improving the shoreline

West County ART Priority Actions

- Develop and disseminate guidance to business and industry on the best practices for reducing the potential impacts of flooding and sea level rise on their facilities and the services and systems they rely on.
- Create a public-private shoreline working group tasked with developing a plan to fund and implement integrated shoreline solutions to reduce flood risk
- 3. Develop a county-wide program to monitor, maintain, and repair (as feasible) at risk shorelines most in need of intervention
- 4. Establish a public-private partnership to better understand the consequences of flooding on commercial and industrial supply chains, employee access to job sites and the regional transportation networks goods and commuters rely on

East County ART Adaptation Responses

 Adaptation Responses for the 7 Key Planning Issues formatted by top priority adaptation action & low-hanging fruit adaptation action for near-, mid-, and long-term

Key Planning Issue #3: Access to Services			
Timeline	Priority Adaptation Response	Low-Hanging Fruit Adaptation Response	
Near-Term	Conduct locally refined analyses to determine the sources of, and potential solutions to resolve, flooding that could damage or disrupt local and regional routes and nodes that are critical for emergency response and for communities to access necessary services.	Build or strengthen relationships between public agencies, private entities, nonprofit, community, and faith-based organizations, and neighborhood groups to increase flood resilience.	

Coming out of East ART

A robust discussion at the last Working Group meeting focused on ways the ART process and SLR adaptation planning and implementation could be progressed so the implementation of some of these plans would become more realistic.

Identified hurdles to implementation:

- Need to create a core ask, clear message, and educating elected officials about ART findings
- No overarching authority to move any of the actions forward
- Continuing the working group and expanding it
- Lack of funding to do adaptation planning

Since the ART studies were completed, new (draft) Sea Level Rise Guidance has been released



2017

West & Central County ART Study Completed. Study used the National Research Council Sea-Level Rise for the Coasts of California, Oregon, and Washington study from 2012, the most recent science-based sea level rise projections for the West Coast of the U.S. at the time.



2024

The Ocean Protection Council released their draft State of California Sea Level Rise Guidance: 2024 Science and Policy Update.

East County ART Study Completed. Study used the Ocean Protection Council's State of California Sea Level Rise Guidance 2018 Update for science-based sea level rise projections.



2020

Where has ART led?

- Informed the inclusion of actions related to sea level rise in the draft General Plan and Climate Action Plan
- Informed the partners and stakeholders to be included in the County's Sea Level Rise Coalition
- Provided a foundation for the pursuit of grants to develop a Contra Costa County Sea Level Rise Resilience and Adaptation Plan

Where can ART go?

• By updating the ART studies with the best available science and upcoming guidance, these vulnerability assessments can provide a deeper understanding of specific SLR risks across the county.



Lower Walnut Creek Restoration Project on May 5, 2022

Thank you!

If you have any questions, please email Ryan Hernandez at Ryan. Hernandez@dcd.cccounty.us.



CONTRA COSTA COUNTY

1025 ESCOBAR STREET MARTINEZ, CA 94553

Staff Report

File #: 24-1119 **Agenda Date:** 4/17/2024 Agenda #: 4.

CONTRA COSTA RESILIENT SHORELINE AD HOC COMMITTEE

Meeting Date: April 17, 2024

Subject: Presentation on the Draft Adaptation Plan "Delta Adapts" developed by the Delta Stewardship

Council

Submitted For: CONTRA COSTA RESILIENT SHORELINE AD HOC COMMITTEE

Department: DEPARTMENT OF CONSERVATION & DEVELOPMENT Presenter: Annie Merritt - Environmental Scientist | Delta Stewardship Council

Contact: Annie Merritt | annie.merritt@deltacouncil.ca.gov <mailto:annie.merritt@deltacouncil.ca.gov>

Referral History:

The Delta Stewardship Council launched the "Delta Adapts" initiative in 2018 to improve resilience to climate change impacts in the Sacramento-San Joaquin Delta and Suisun Marsh. The "Delta Adapts" initiative is comprised of two parts: a Vulnerability Assessment and a regional Adaptation Plan. The Vulnerability Assessment was approved by the Delta Stewardship Council in 2021 and identifies risks posed by multiple hazards to Delta communities and a variety of regional assets. The Adaptation Plan identifies a range of actions that would improve regional resilience to climate change, including rising seas and flooding which focuses on human safety and wellbeing, with an expectation to be finalized in summer 2024. The County has participated in the stakeholder work group effort informing the "Delta Adapts" initiative, but this is the first time the Committee is receiving a presentation on the adaptation plan.

Recommendation(s)/Next Step(s):

ACCEPT the presentation on the Draft Adaptation Plan "Delta Adapts" developed by the Delta Stewardship Council.





A CALIFORNIA STATE AGENCY

Delta Adapts =



Overarching goal is to build climate resilience in the Delta

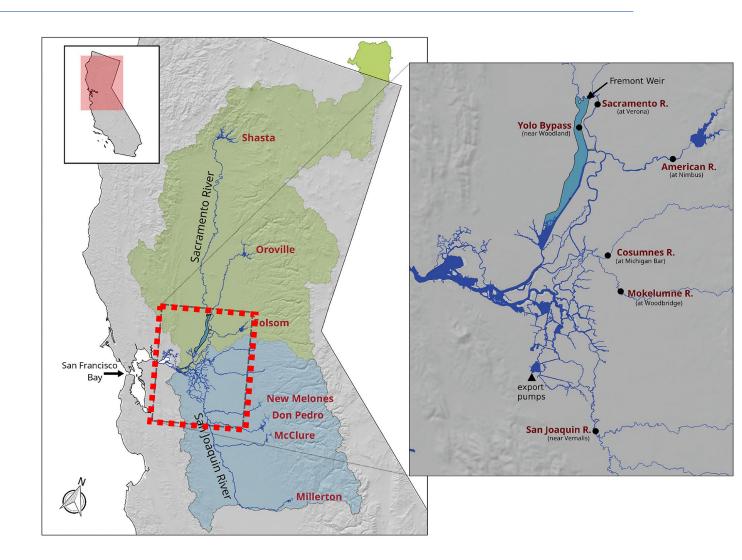
DSC Authority

- One Estuary
- BCDC and DSC have overlapping jurisdictions in Suisun Marsh



Flood Hazard Analysis

- Sea level rise
- Storm surge
- Tides
- Inflow from rivers
- Effects of climate change on river flood flows
- Possibility of high tide and storm surge occurring at same time as high inflow
- Flooding due to levee overtopping; no action scenario



Delta Adapts Modeling Analysis and Approach

- Adapt and improve upon approach developed and applied in prior work
- Considered a wide range of plausible inputs considering future climate change:
 - Tide and storm surge
 - Sea level rise
 - Tributary inflows
- Applied **DSM2 hydraulic model** to explore local water level dependence on input conditions
- Developed tool for rapid estimation of local water levels
- Apply probabilistic approach to estimate peak water levels throughout the Delta, considering uncertainty in effect of climate change on inputs

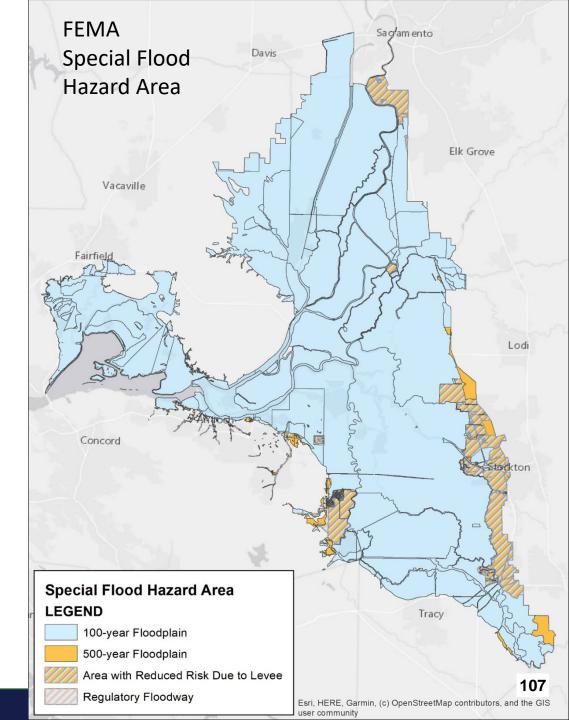
Traditional Floodplain Map

FEMA Flood Insurance Rate Map

- Flood exposure is "all-or-nothing" in or out
- Some considerations for higher storm events and levees

Delta Adapts aims to provide more detailed understanding of flood risk

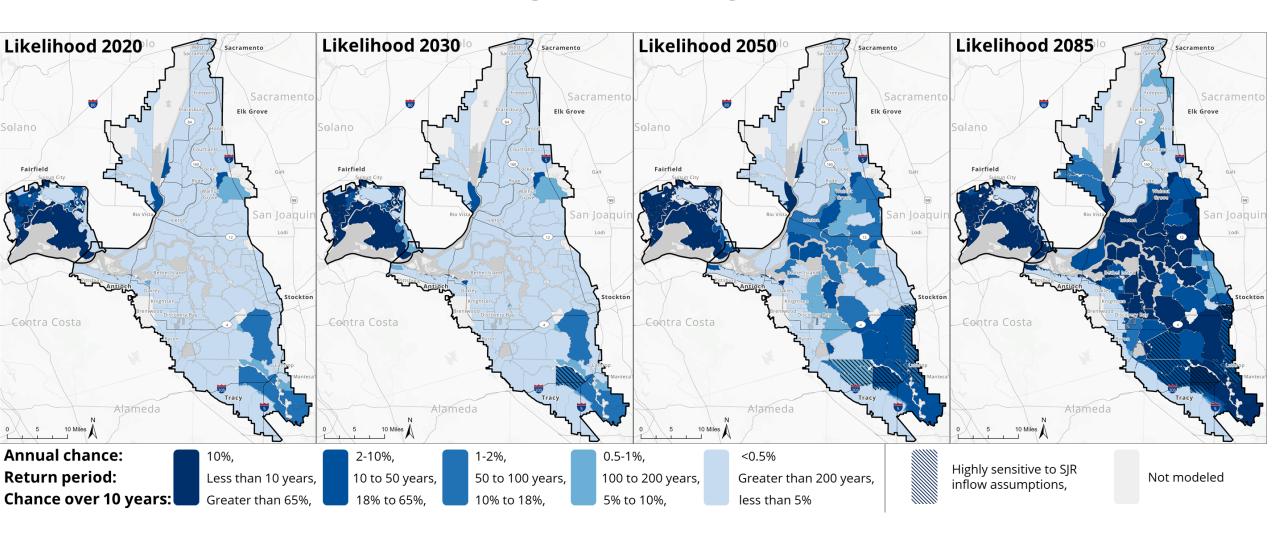
- Deterministic maps (e.g. FEMA)
- Probabilistic maps (likelihood of flooding)



Flood Hazard Scenarios

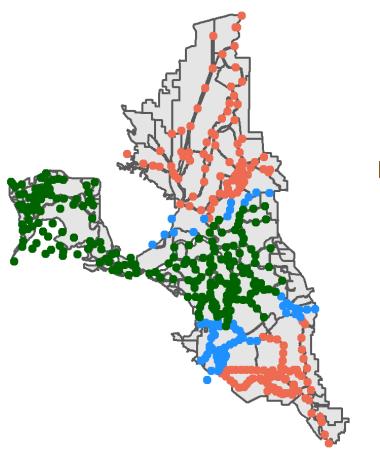
Planning Horizon	Sea Level Rise	Watershed Hydrology
Current Conditions	N/A	Historical
2030	2030 (0.2 to 0.8 ft)	Historical
2050	2050 (0.2 to 1.9 ft)	Mid-Century (2035-2064) RCP 8.5
2085	2085 (0.5 to 6.9 ft)	End-of-Century (2070-2099) RCP 8.5

Probabilistic Flood Exposure Maps



Delta Flood Dynamics: Understanding Regional Influences

Area of Strongest Climate Change Influence Throughout the Delta

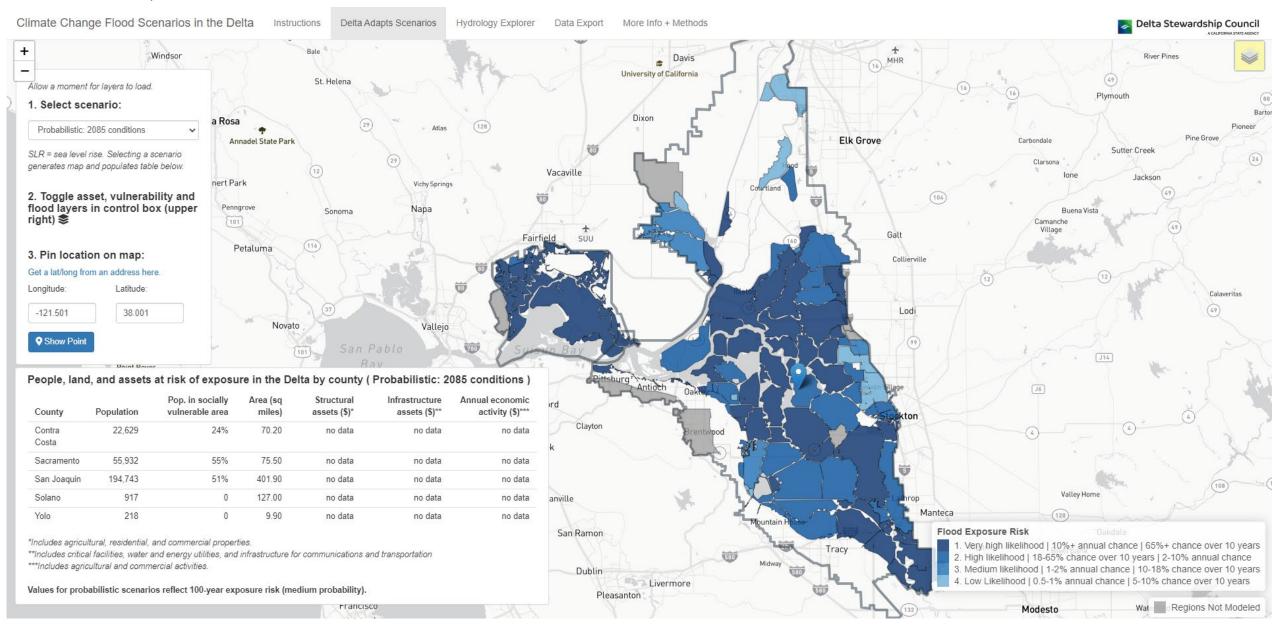


Influence

- Riverine
- Transition
- SLR

Shiny app

https://deltascience.shinyapps.io/delta_flood_map/





By 2050, a 100-year flood event in Contra Costa County could impact:



- **2,955** residents
- 80% of exposed population in Antioch and Pittsburg live in areas with high social vulnerability



- 1 school
- 1 wastewater treatment plant
- **5** parks



- **1** solid waste facility
- **5** contaminated sites

Key Climate Vulnerabilities and Adaptation Priorities in Antioch and Pittsburg

Climate vulnerabilities:



Flooding: By 2085, at least 3,180 additional people in Antioch and Pittsburg will be exposed to flooding.



Extreme Heat: Antioch and Pittsburg will likely experience ~five times more extreme heat days by 2050 than what is currently experienced.



Wildfire: Antioch and Pittsburg will likely experience more poor air quality events due to increased frequency and severity of remote wildfires.

Key adaptation priorities

- » Coordinate with other agencies on adaptation efforts.
- » Prioritize adaptation for vulnerable communities.
- » Protect shoreline infrastructure from sea level rise and climate hazards.
- » Maximize public shoreline access and increase park resilience.
- » Address drinking water issues, trash in waterways, and food insecurity.
- » Train youth on climate impacts and adaptation.

SUMMER 2024





Adaptation Plan





- Adaptation strategies
- Responsible entities
- Funding and financing
- Governance best practices



Vulnerabilities

Climate-induced hydrologic variability and sea level rise are expected to **intensify flooding** across the entire Delta region

The Delta's **1,100 miles of levees** are designed to operate under historical conditions that did not consider climate change, which will stress the whole system

Strategies

Develop climate-informed understanding Delta flood dynamics

Strengthen and upgrade Delta levee system

Restore ecosystems for flood mitigation

Improve emergency preparedness and risk communication

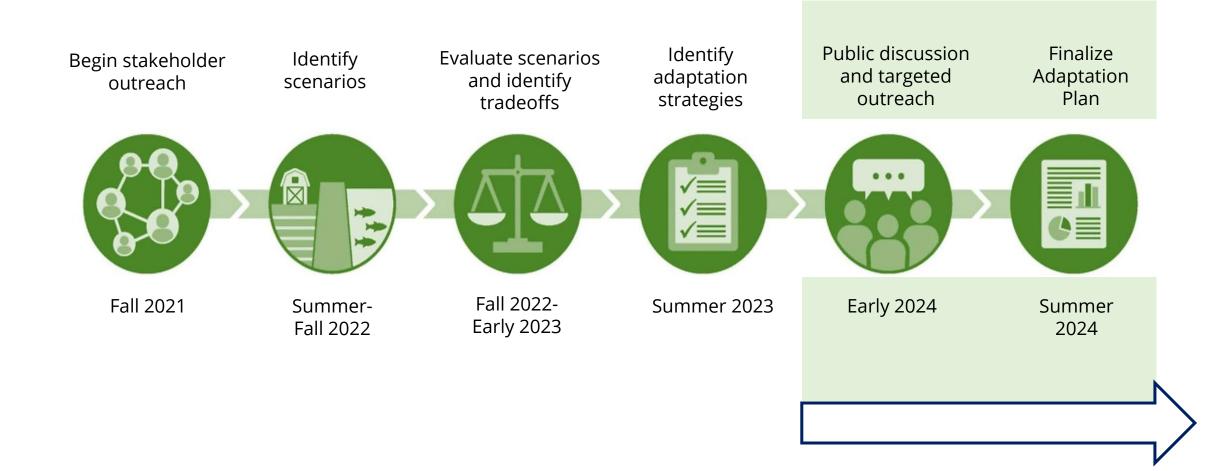
Manage and expand upstream water storage capability

Use adaptive urban planning and farming practices to reduce risk

Example Actions

- ► Integrate climate change into risk assessment models (FL-1-1)
- Integrate climate risks and equity into the Delta Levees Investment Strategy (FL-2-2)
- Monitor and evaluate the effectiveness of multi-benefit projects for flood risk reduction (FL-3-2)
- Raise awareness about the availability and importance of flood insurance (FL-4-6)
- ▶ Use excess floodwater to recharge underground aquifers (FL-9-2)
- Limit development in flood-prone areas (FL-7-4)

Next Steps



QUESTIONS AND DISCUSSION

Thank you

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Scan the QR code to subscribe to join our email list



Deltacouncil.ca.gov



@DeltaCouncil



@deltastewardshipcouncil



Delta Stewardship Council



@deltastewardshipcouncil



CONTRA COSTA COUNTY

1025 ESCOBAR STREET MARTINEZ, CA 94553

Staff Report

File #: 24-1120 **Agenda Date:** 4/17/2024 **Agenda #:** 5.

CONTRA COSTA RESILIENT SHORELINE AD HOC COMMITTEE

Meeting Date: April 17, 2024

Subject: Report on Staff Activities that support the Contra Costa Resilient Shoreline Committee

Submitted For: John Kopchik | DEPARTMENT OF CONSERVATION & DEVELOPMENT DIRECTOR

Department: DEPARTMENT OF CONSERVATION & DEVELOPMENT

Presenter: Ryan Hernandez | DEPARTMENT OF CONSERVATION & DEVELOPMENT

Contact: Ryan Hernandez (925)655-2919

Referral History:

This is a standing item of the Committee.

Referral Update:

See attached Contra Costa Resilient Shoreline Ad Hoc Committee Staff Report.

Recommendation(s)/Next Step(s):

ACCEPT the report on Staff Activities supporting the Contra Costa Resilient Shoreline Ad Hoc Committee.

Fiscal Impact (if any):

None.

Contra Costa Resilient Shoreline Staff Report for Contra Costa Resilient Shoreline Ad Hoc Committee April 17, 2024

Key activities since the Resilient Shoreline Ad Hoc Committee's meeting on February 21, 2024, are listed below.

Grants

- Adaptation Planning Grant Program Round 2 Application Open. The Integrated Climate
 Adaptation and Resiliency Program within the California Governor's Office of Planning and
 Research recently released its Round 2 <u>Adaptation Planning Grant Program</u> Notice of Funding
 Availability. The Adaptation Planning Grant Program provides awards of up to \$650,000 to help
 fill local, regional, and tribal planning needs, in support of identifying communities' climate
 resilience priorities and the development of a pipeline of climate resilient infrastructure
 projects. Round 2 applications are now being accepted until June 3, 2024, and the County
 intends to apply.
- SB 1 Grant Program Proposal Submitted. Staff submitted an application to the California
 Ocean Protection Council's (OPC) <u>Senate Bill 1 Sea Level Rise Adaptation Planning Grant</u>
 <u>Program</u> (SB 1 Grant Program) on March 22, 2024, for just under \$1,500,000 to support the
 preparation of the Contra Costa Resilient Shoreline Plan. Staff expect to hear from OPC about
 decisions and potential next steps by early May.
- Staff continue to monitor state and federal grant opportunities and prepare to apply for funding to support the Contra Costa Resilient Shoreline Plan (Plan). The Plan would create focused adaptation strategies and implementation actions for the communities along Contra Costa County's shoreline.

Contra Costa Sea Level Rise Coalition

- Staff continue to have discussions with other local and regional public agencies to coordinate sea level rise planning efforts and build the Contra Costa Sea Level Rise Coalition to support the development of the Contra Costa Resilient Shoreline Plan.
- Staff continue to participate in regional sea level rise adaptation and resilience efforts to ensure the County's efforts are consistent and complementary.