



San Francisco Bay Restoration Authority
December 15th, 2023

North Richmond Living Levee & Collaborative Shoreline Adaptation Plan



WEST COUNTY
WASTEWATER

MITHŪN



NHA | ADVISORS
Financial & Policy Strategies.
Delivered.



North Richmond
Area Community
Leaders



SAN FRANCISCO BAY
RESTORATION AUTHORITY

North Richmond Project Scope Boundaries

~5 Mile North Richmond Shoreline Area (Current Scope: Collaborative Shoreline Adaptation Plan)

	Area Below 12.96ft NAVD88
	<ul style="list-style-type: none"> • 100-yr Coastal Flood w/ +3.4ft SLR • MHHW w/ +6.9ft SLR
	Area Below 9.56ft NAVD88
	<ul style="list-style-type: none"> • Present Day 100-yr Coastal Flood • MHHW w/ +3.4ft SLR
	Area Below 6.16ft NAVD88
	<ul style="list-style-type: none"> • Present Day MHHW

Pt. San Pablo

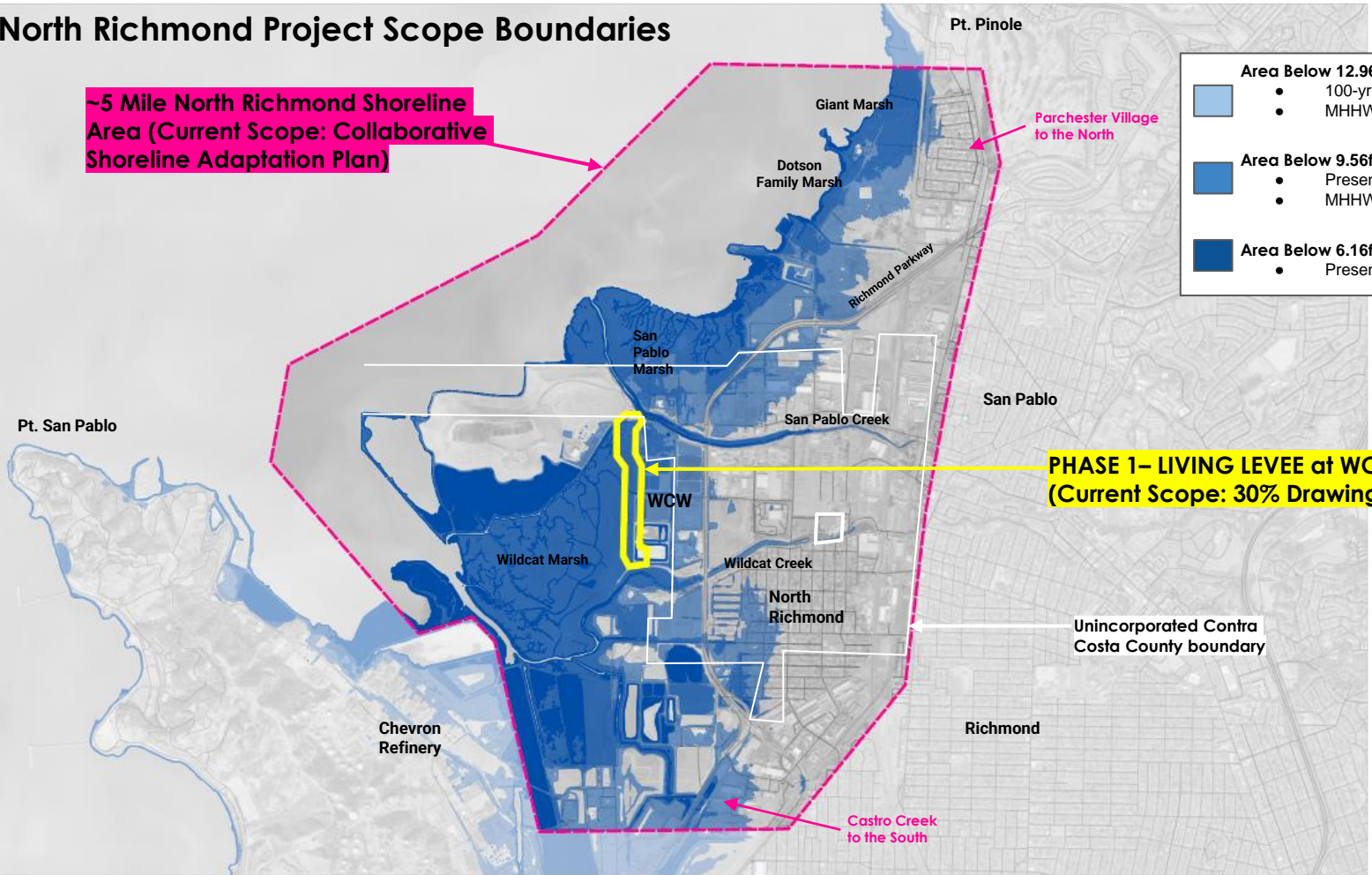
Pt. Pinole

Parchester Village to the North

PHASE 1- LIVING LEVEL at WCW FACILITY (Current Scope: 30% Drawings)

Unincorporated Contra Costa County boundary

Castro Creek to the South



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**

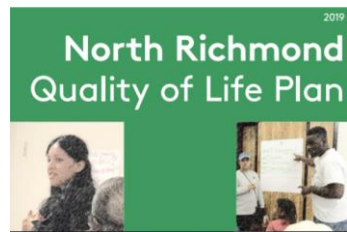
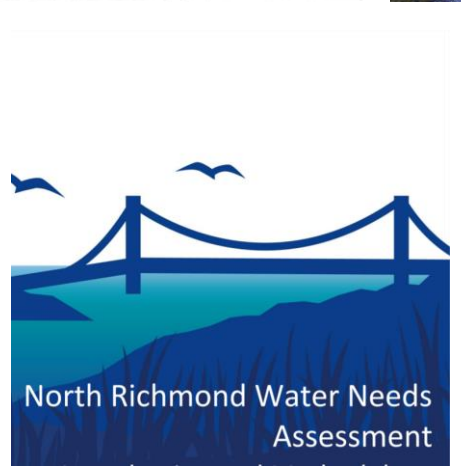
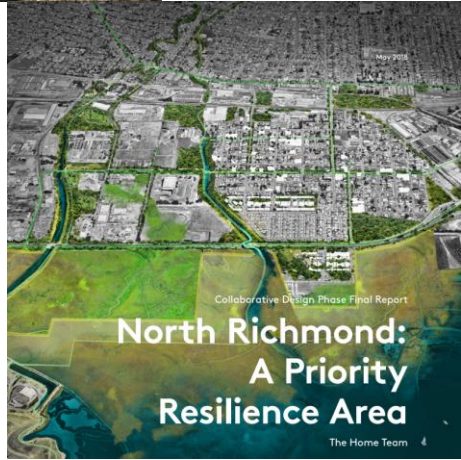
Building on the Legacy of Organizing, Planning & Stewardship in North Richmond



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 habitat and a source of clean, healthy food.



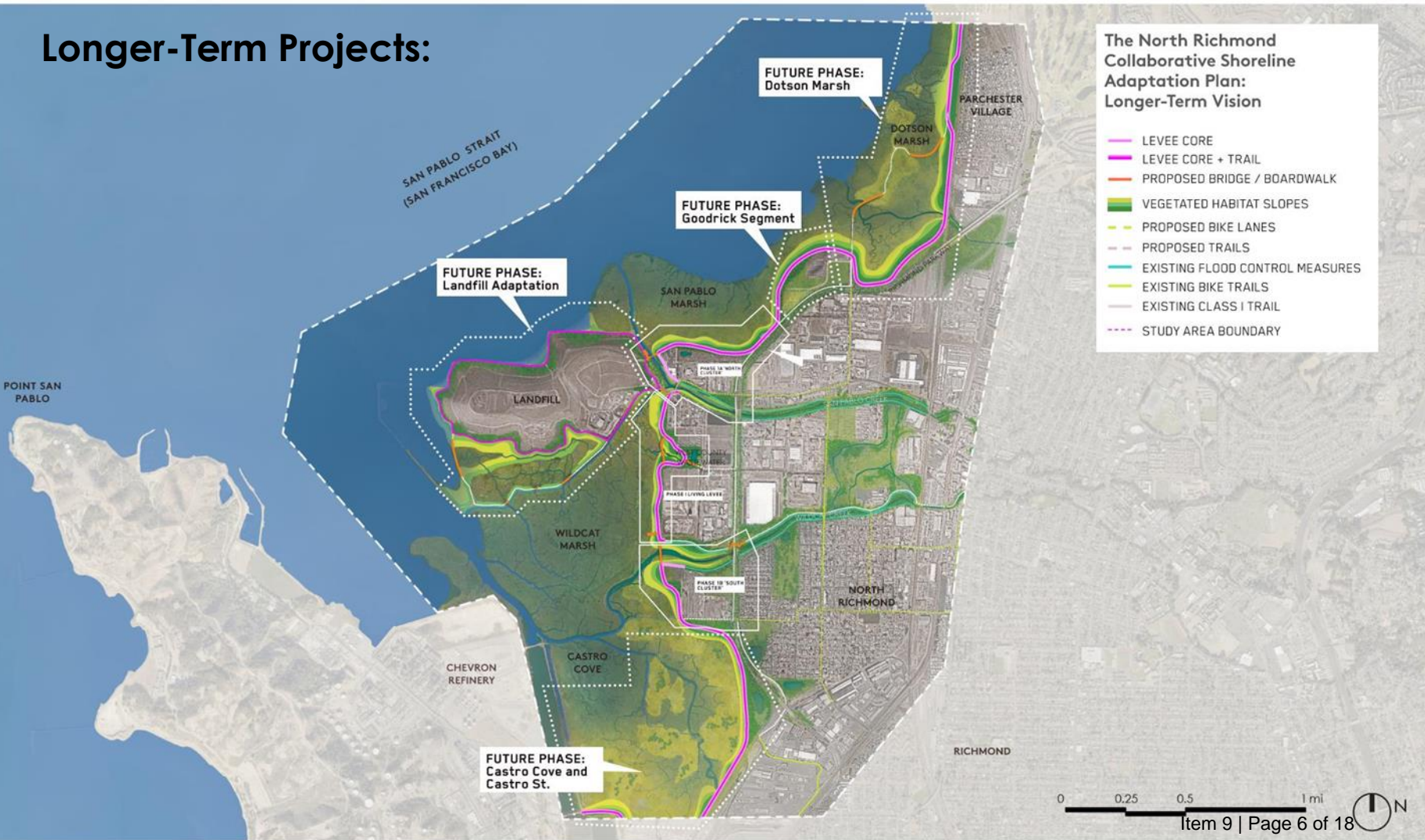
Near Term Vision: Phase 1 Living Levee at West County Wastewater

Multi-Benefit Adaptation Project to provide:

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



Longer-Term Projects:



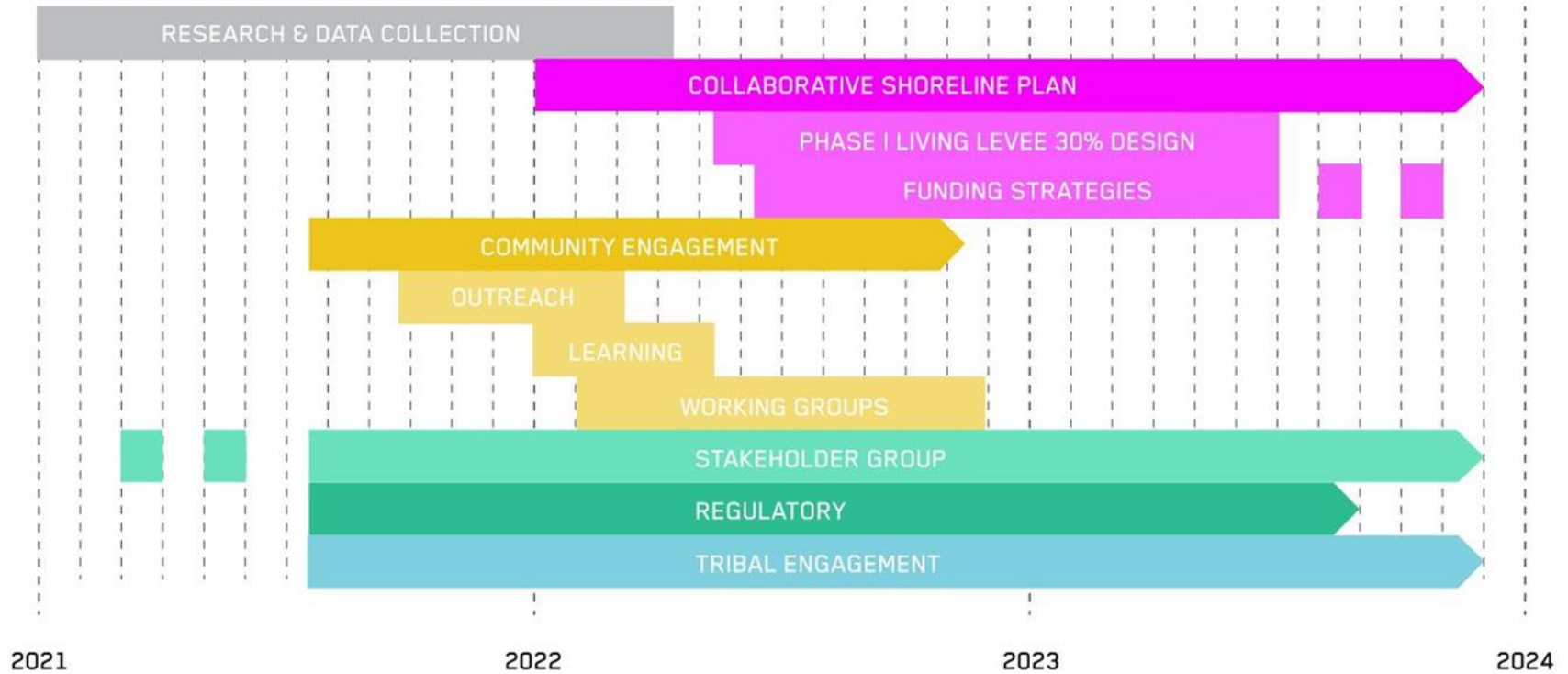
Community Engagement Frameworks

Multi-Benefit Sea Level Rise Adaptation on the North Richmond Shoreline has begun long before and will last for long after the design + construction phase

- Building on years of work and relationship building
- Tribal Engagement
- Surveys
- Educational Workshops
- Design Workshops
- Future Local Workforce Development Discussion



Frameworks For Community Participation & Co-Design



A background image of a park scene. In the foreground, several people are engaged in a community activity, possibly a garden tour or a field study, as they look at plants in a field. In the middle ground, a person is riding a bicycle. The background shows trees and a clear blue sky with several birds flying. The overall atmosphere is bright and active.

COMMUNITY
ENGAGEMENT

COMMUNITY
DECISION-MAKING

Outreach → Recruitment

Education → Workgroups

Gather community voices →
Community research & co-design

Outreach

Adaptación de la costa de North Richmond:



Los miembros de la comunidad:

- Trabjarán 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 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 **Monday, 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).



20+ community members

Regular meetings (paid)

Learning Academy

3 Workgroups

Site Visits



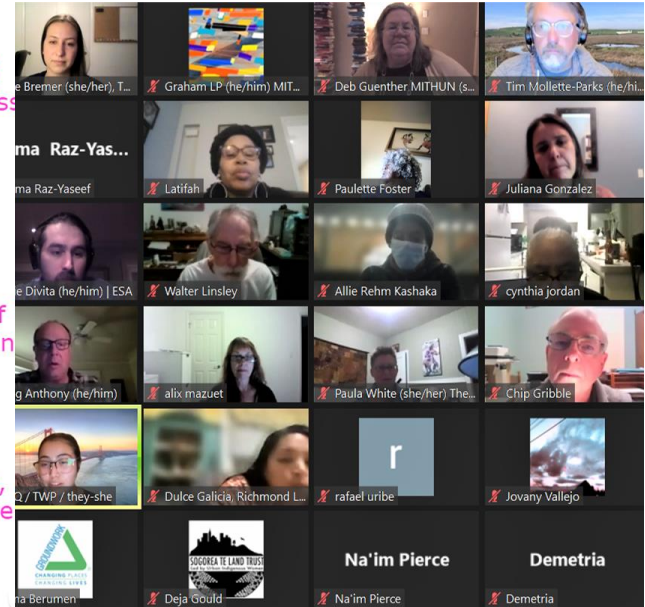
What do you do on the North Richmond Shoreline?



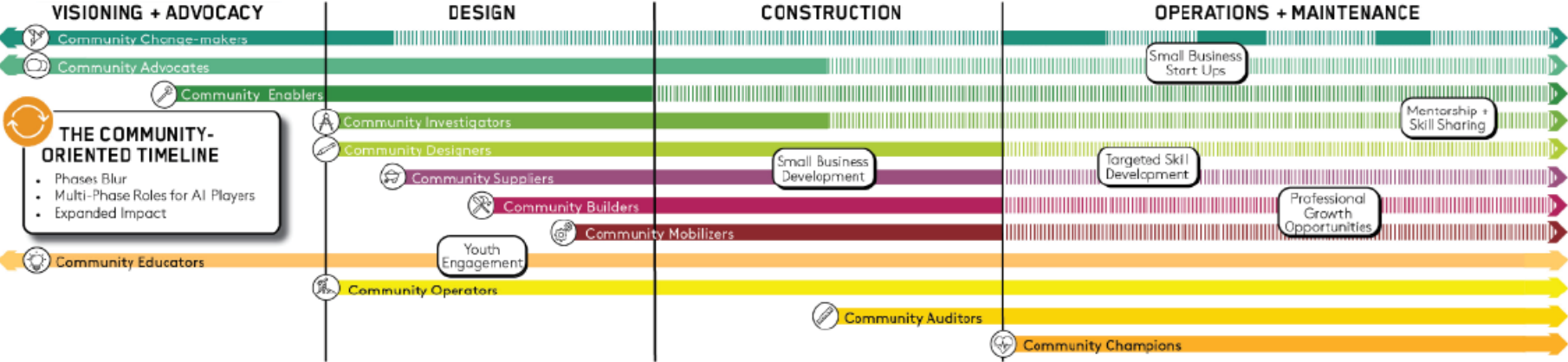
Please let us know what you do on the North Richmond shoreline by either adding a post-it with a new activity or adding a sticker under an existing post-it. (Add only one sticker per activity.)

Some shoreline activities may be hiking, fishing, biking, picnicing...

Online Workshops: Understanding Priorities for Access, Amenities, Activities & Restoration



Workforce Development: thinking beyond construction to community stabilization and wealth-building



Tribal Engagement



HOME ABOUT PROGRAMS EVENTS GET INVOLVED NEWSLETTER DONATE

DONATE

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

The Past

California gull
Seagull
Bald eagle

In front of you is the North Richmond shoreline, on the San Francisco Bay. This tidal wetland evolved over thousands of years and is well-adapted to changing water levels: the daily high and low tides, and the seasonal spring floods from Walker Creek that flows from the Berkeley hills into the Bay at this location.

We learn from this ecosystem how to cope with current risks such as sea level rise and pollution. For example, the dense vegetation that this habitat supports enriches the soil with organic matter, and that increases water infiltration, reducing floods. The gently sloping topography reduces wave energy that can be damaging to the shoreline. Wetland vegetation such as marsh grasses and reeds have deep root systems that anchor the soil, so it is less erodible even under constantly moving water. These plants extract toxins from the soil and the air, making the ecosystem more habitable for us.

Grizzly bear
Salmon
Clam
Crab
Bird

The tidal marshes are an important feeding and nesting area for birds such as the Cooper's hawk, salt marsh harvest mouse, and the California gull. The redwood beds underneath the water provide habitat for species such as Chinquapin crab, skink punch, and anemone.

Wetlands slow down river flow. Sediments carried by the creek are released in this flat area, and over time, accumulation of creek sediments and the wetland's organic material (dead plant material) increases the height of the wetland. This way, the wetland can keep pace with rising sea levels to stay above the water. As sea level rises, wetlands can also respond flexibly, converting dry inland areas to marshes.

The Present

Person looking out window
Coastal city skyline
Heron
Map of the area
Fish

People lived and used this shoreline for thousands of years. In the Chinook language of the Ljutsj-Ojlsne people, this area is named 'Thlaxian' land. Tribal members that first arrived to share stories of how their ancestors lived relied on fish and seafood from the Bay, and birds, water and berries from the surrounding hills and valleys. They used rafts and boats to travel along the Bay's waterways. They had a deep spiritual connection to the land and lived in harmony with the environment. Today, the Ljutsj-Ojlsne communities are working to repatriate the land and revitalize their culture, knowledge, and native languages.

In the 20th and 21st centuries, this shoreline went through heavy industrialization, particularly during and after World War II. The area became a hub for oil refining and chemical manufacturing, including General Chemical Company, Kaiser Shipyards, Ford Motor Assembly Plant, the Richmond Naval Mill, the Clute-Allyn Pottery Company (manufacturing equipment), and the Chlorine Refinery (which still dominates the shoreline today).

The industry brought jobs and economic growth to the region, attracting workers. Soon after, African Americans from the Southern US, Mexican Americans, and European immigrants made their home in the nearby North Richmond neighborhood. The community became a hub for music, with world-famous jazz clubs and music venues, including the legendary Club Savoy, attracting top musicians from across the country. After this period of economic growth, residents faced challenges from pollution and environmental degradation and declining industry that led to social and economic instability. Despite these challenges, the community has remained resilient and continued to thrive, with a rich

The Future

Butterfly
Fish
Bird
Person
Dandelion
Bird
Map of the area

This low-lying wetland is expected to be significantly impacted by sea level rise in the coming decades. At sea level rise, some infrastructure will be at risk from coastal floods. This includes the West County Watermain Facility, the Richmond Parkway, some North Richmond homes, and the natural environment - the wetland and all its plants and animals.

Motivated by over two decades of environmental and community activism, plans are being developed for a solution to sea level rise for the North Richmond Shoreline. By constructing a Living Lagoon - a low-lying, broad structure built parallel to the shoreline, the shoreline will be more protected from coastal flooding and wave erosion.

The structure is designed to blend with the surrounding landscape and mimic the natural processes of coastal protection, creating a 'Nature-based Solution' that uses the benefits and services provided by the natural ecosystems and processes.

The North Richmond Shoreline Adaptation project will provide opportunities for the neighboring communities to connect with nature - creating walking and biking trails, building small parks and play structures, and improving access to this beautiful area. The design of this project was heavily influenced by the work with community partners that identified community needs and wants.

This project is currently in its planning stages, and if granted funding, implementation will start in 2023.

In Memoriam...



Thank you



WEST COUNTY
WASTEWATER

MITHŪN



ESA



the
watershed
project

NORTH RICHMOND
COMMUNITY MEMBERS



SAN FRANCISCO BAY
RESTORATION AUTHORITY