The Adapting to Rising Tides Program

Oakland/Alameda Resilience Study

San Francisco Bay Conservation and Development Commission
Agenda

9:00 Welcome, review agenda, and introductions
9:15 Review proposed adaptation responses
9:45 Discuss implementation pathways
10:45 Break
11:00 ART and local projects
11:30 Next steps and communication strategy
Meeting Objectives

• Develop an implementation path for priority actions
• Discuss communications strategy for study findings
• Plan for an ongoing relationship with the ART Program and other working group agencies
What have we been up to?

- Draft Phase I Report: Vulnerability and Risk Assessment
- City of Oakland Hazard Mitigation Plan Update
- Commissioner Workshops

...What have you been up to?
Where are we in Oakland/Alameda?

Adapting to Rising Tides
Planning Process

SCOPE & ORGANIZE
Convene Partners & Stakeholders
Choose Project Area
Identify Sectors, Services, Assets
Select Climate Scenarios & Impacts
Set Resilience Goals

ASSESS
Review Existing Conditions
Assess Vulnerability
Consider Risks

DEFINE
Characterize Vulnerabilities & Risks
Identify Key Planning Issues

PLAN
Select Evaluation Criteria
Refine Resilience Goals
Develop Adaptation Responses
Integrate Adaptation Responses into Plans
Evaluate & Select Adaptation Responses

IMPLEMENT & MONITOR

Society & Equity Environment Economy Governance
Implementation Pathways

- Actions
- Leads
- Partners
- Processes
- Funding
- Permits

Actions can be many different things such as studies, new governance arrangements, physical structures, public outreach campaigns.
Implementation Discussion

For each of the identified actions:

• What funding opportunities are there?
• Will advocacy be necessary?
• What information will be needed?
• What is the regulatory landscape?
• Are there institutional arrangements to support it?
• Would this action:
  – Build social resilience and equity?
  – Protect or enhance the environment?
  – Solve an information or governance challenge?
  – Build local or regional economic resilience
• What is the priority - is it only a local priority or is it also a regional priority?
Future Flood Risk (AECOM)

Figure 12. Updated Inundation and Flooding Analysis Using the Modified DEM

Note: System-wide inundation of Bay Farm island is expected at 36 inches of SLR. The tide gate wing-wall (Site A), the Harbor Bay Club shoreline (Site B), and sites along Doolittle Drive (Sites C-G) are the critical inundation pathways in this scenario.
Proposed Bay Trail Options

B. EMBANKMENT WIDENING BY RETAINING WALL TRAIL TYPE

Conceptual Engineering Design Features

C. ADDED EMBANKMENT TRAIL TYPE

Added Embankment
November Evaluation Criteria Meeting

- Coordination is difficult to envision given current timelines (FEMA appeal, EBRPD Bay Trail)
- Agencies are not eager to form new governance arrangements (JPAs, easements, etc)
- Permit requirements make it difficult to do multi-objective projects
- Desire to do green infrastructure projects but little clarity on what that could look like here
Bay Farm Island/OAK Flooding

How to address low spots along Doolittle which contribute to flooding on Port of Oakland property and in the community?

1) Individual actions by OAK, EBRPD and Caltrans

2) Coordinated action to make recreation, airport operations, and transportation more resilient.
Implementation Discussion

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  - Build social resilience and equity?
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- What is the priority - is it only a local priority or is it also a regional priority?
Coliseum Area Flooding

How to address joint coastal and riverine flooding?

How to make planned redevelopment more resilient?
Figure 6-5: The layout and footprint of the living levee (brown) and the section where seawall might be necessary due to space limitations.
Damon Slough Flooding

Figure 6-4: Conceptual diagrams of a traditional levee (top) and living levee (bottom)

- Traditional Levee
- Living Levee

SWL

Flatter slope with marsh habitat
Watershed Storage

Figure 2 – Watershed Map for Oakland Coliseum Focus Area
Coliseum Area Options

Figure 6-5: The layout and footprint of the living levee (brown) and the section where seawall might be necessary due to space limitations.

Figure 6-4: Conceptual diagrams of a traditional levee (top) and living levee (bottom).

Figure 2 - Watershed Map for Oakland Coliseum Focus Area

Figure 1.2: Coliseum Area Specific Plan Conceptual Buildout
Source: AECOM
November Evaluation Criteria Meeting

- Information gaps about the potential for watershed storage
- This area may need innovative flood storage methods
- No current developer for the Coliseum area
- Desire to do green infrastructure projects but little clarity on what that could look like here
- Uncertain about rail and road connections to regional network
Implementation Discussion

For each of the identified actions:

• What funding opportunities are there?
• Will advocacy be necessary?
• What information will be needed?
• What is the regulatory landscape?
• Are there institutional arrangements to support it?
• Would this action:
  – Build social resilience and equity?
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ART Outreach and Engagement

Communication is a critical component of the ART Program and local outreach is generally led or framed by working group members and agencies who know local audiences.

**Regional Public Engagement:**
San Rafael Art Walk, radio, print and television interviews, King Tides Initiative, workshops in Solano and Napa Counties, BCDC Commissioner workshops, San Mateo and Marin public meetings.

**Hayward Shoreline Resilience Study:**
Presented to the Chamber of Commerce, participated in the Hayward Area Shoreline Planning Agency decision to continue its JPA, input on the East Bay Dischargers Authority project determining options for future operations, participated in public engagement through “Sharks in my Backyard” and EBRPD events.

**Alameda County:** Presented to boards, committees, commissions and developed material for use by cities, the county and agencies and organizations to communicate the findings and outcomes of the project.
ART Outreach and Engagement

Oakland/Alameda Resilience Study So Far:

- Presentations to City of Oakland Mayor’s Office, Planning and Sustainability staff
- Presentations to the City of Alameda Planning, Public Works and other department staff
- Participation in the City of Oakland’s Resilient Oakland initiative and presentations to community members, community groups, stakeholders and others
- Working sessions with the Port of Oakland staff
- Field trips with working group members to assist with a better understanding of the issues
- Development of material that to be used by the cities and agencies to communicate the project to their constituents
ART Outreach and Engagement

- Clear description or story of the project and its findings
- Summary presentations
- Handouts on key issues or topics
- Graphics and slides for partner presentations
- Concise summaries of assessment findings
- Assistance developing customized communication materials or making presentations to working group member agencies, organizations or the public
ART Outreach and Engagement Materials
The team that leads and manages the project, engages the stakeholder working group, and completes work products including the assessment and development of adaptation responses for the project.

Stakeholders from public, non-profit and private sectors, community members and issue experts representing the relevant expertise, local knowledge, regulatory oversight and asset management for the project area and assets.

Working group stakeholders actively participate in the project, attend project meetings, and work with the project team to provide data and information, local knowledge and best professional judgment for the assets, communities and services that they manage and represent in the project area.

The working group also coordinates and communicates about the project with their stakeholders – both internal and external to their organizations – to bring additional expertise, perspectives and concerns to the project.

A wide range of organizations and individuals that have interests and perspectives that are related to the project scope, follow the progress of the project, provide feedback on draft materials, and comment on project components and outcome, but are not responsible for providing data and information. These stakeholders are not participating actively in the project.
Outreach Recommendations

- Establish communication goals and the focus of outreach and engagement (e.g., the assessment, a subset of strategies, the role of community or agency)

- Define the audiences that need to be reached to achieve communication goals

- Determine and identify any concerns regarding communication with different audiences and ensure the outreach is appropriate for the audience

- Identify partners to assist with communication (e.g. community groups, elected officials, business community)
Communications Strategy

• Final products added to ART Portfolio
• Public meetings in study area (in progress)
• Data and information for local processes
• Communicating findings at the regional and state level
• Other local and regional venues?
• Working group volunteers to invite and/or present?
Ongoing Coordination and Support

We aren’t leaving! We will still participate in and support local and regional efforts in the study area.

- Resilient Oakland
- Oakland Hazard Mitigation Plan Update and Recovery Plan
- Alameda Hazard Mitigation Plan Update
- Resilience by Design
- BCDC Workshops
- OAK FEMA Appeal
- EBRPD Bay Trail extension
- Others?
Next Steps

- Phase 2 Report-Draft in April
- Finalized profile sheets and adaptation responses
- Resilience by Design
- CHARG
- The Resilient Oakland Initiative
- Oakland LHMP Update-Tonight!
Oakland/Alameda Resilience Study

For more information:
http://www.adaptingtorisingtides.org/working-group/oakala/

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