

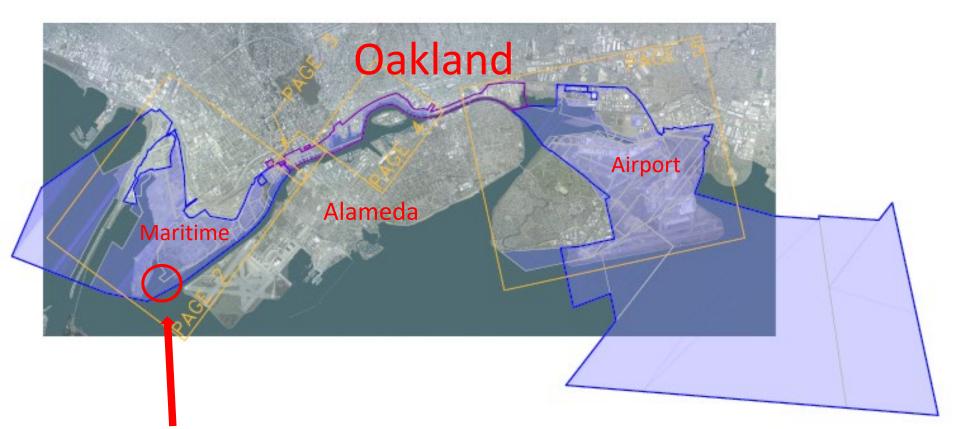
Middle Harbor Enhancement Area





Ancillary Feature Design via Design Charrette

Port Of Oakland Current Geographical Jurisdiction



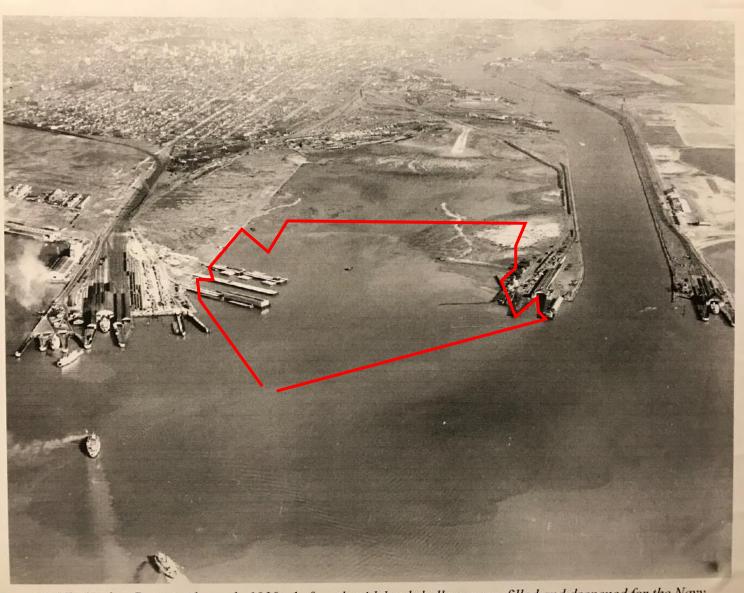
Middle Harbor Enhancement Area



Oakland 1859 - Not Much to Harbor



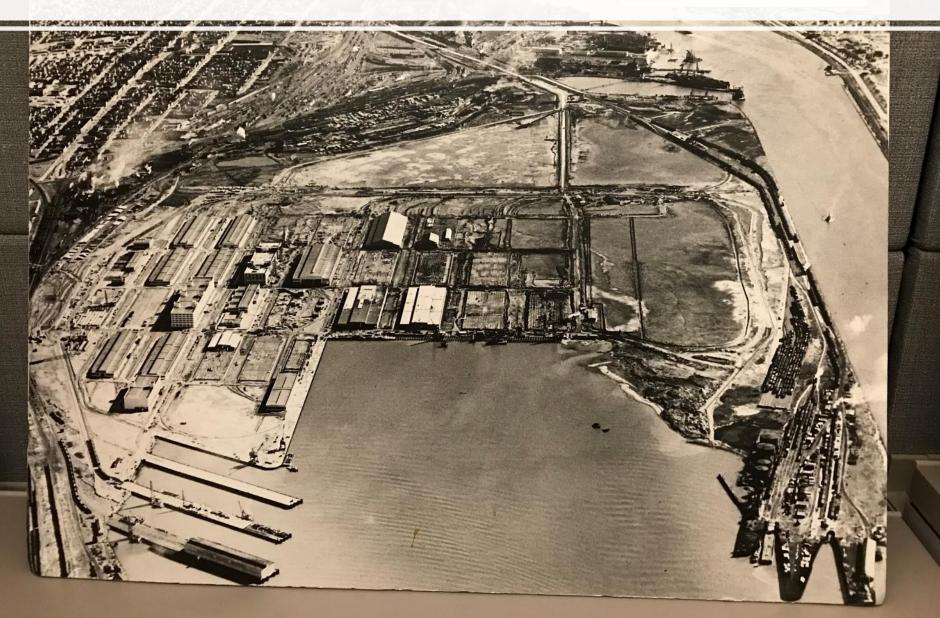
1930's Historical Habitat – Mudflats



Middle Harbor Basin in the early 1930s, before the tideland shallows were filled and deepened for the Navy.

Middle Harbor in 1942 – Naval Base

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Naval Base Closure

Navy - Fleet and Industrial Supply Center Oakland (FISCO) –Closed September 1998.



Vision 2000 - Oakland Harbor Navigation Improvement (-50 Foot) Project



MHEA Goals

Subtidal Habitat (Eelgrass)

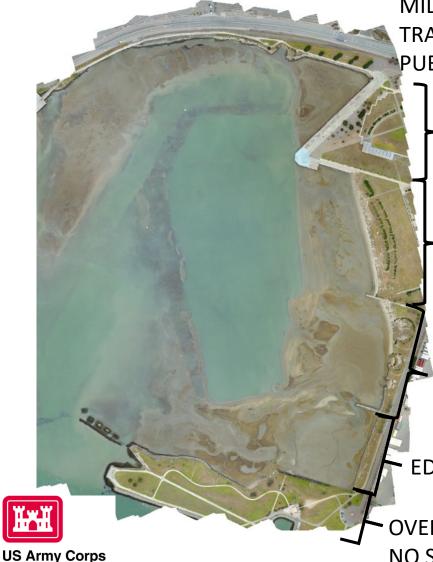
Birds (Avian Foraging Habitat)

Fish (Increase Diversity & Populations)

Beach

Educational Marsh

Design Philosophy of MHEA/MHSP Interface



of Engineers ® San Francisco District MIDDLE HARBOR SHORELINE PARK DESIGNED TO TRANSITION FROM INTENSE TO LESS INTENSE PUBLIC USE

- PLAZA AND AMPHITHEATER

PRIMARY RECREATIONAL BEACH

COVES AND HEADLANDS PASSIVE SHORELINE RECREATION

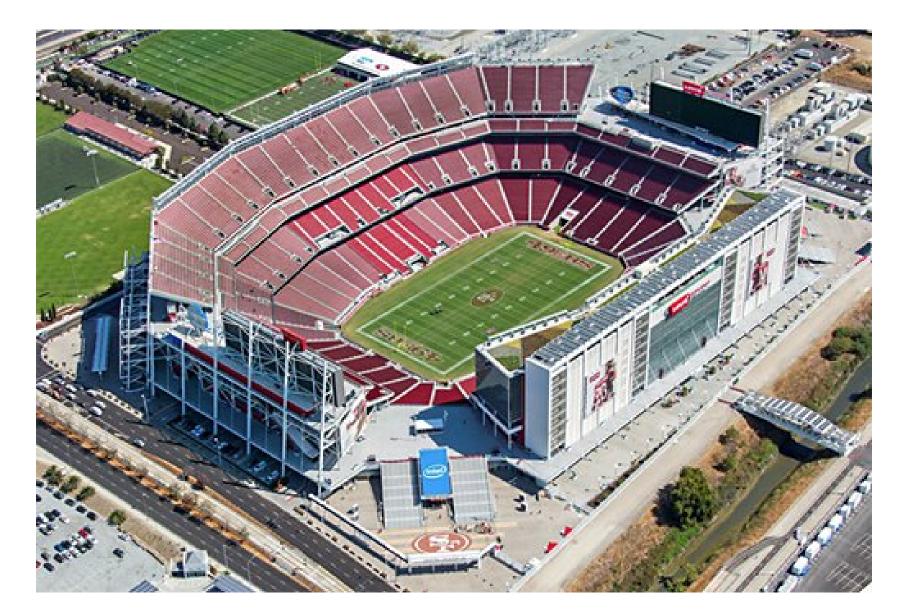
EDUCATIONAL AND INTERPRETIVE MARSH

OVERLOOKS/TRAILS/RECREATION MEADOWS

NO SHORE ACCESS



Levi Stadium – Seats 68,500 people



002 – 2012 Consolidation

Image USDA Farm Service Agency



R. H. H. H. H.

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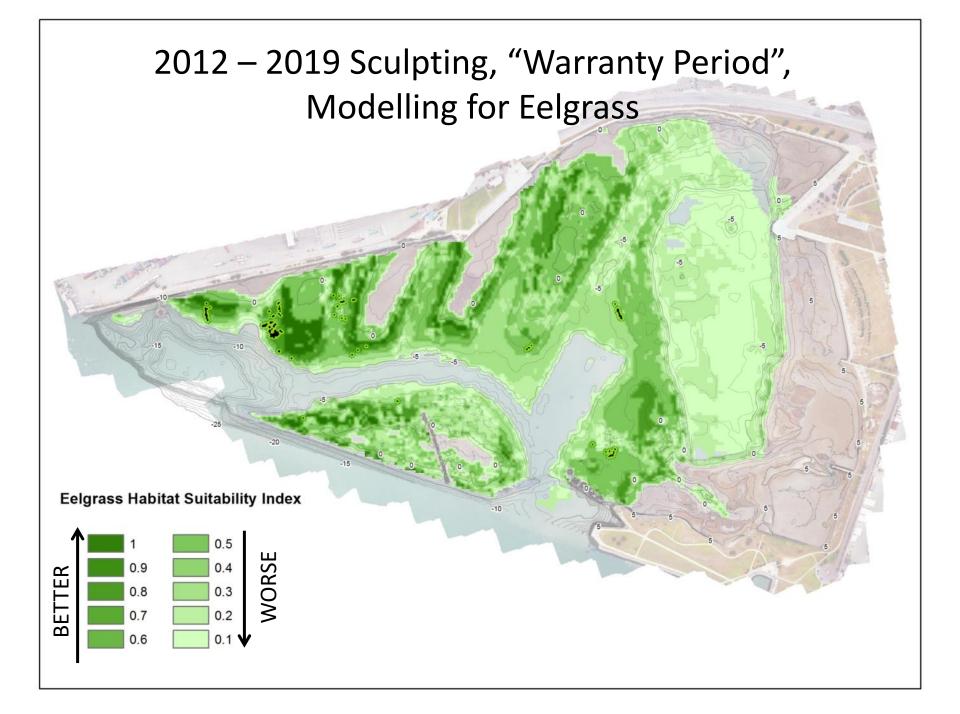
S. Rest

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The Problem

Agency Request for Project Completion

> Ancillary Features Not Meeting Performance Criteria

> > Project Budget Running Out (902 Limit)

> > > USACE Contracting Mechanism is Slow





Design Charrette Plan



Envision and Design



Prepare



Implement

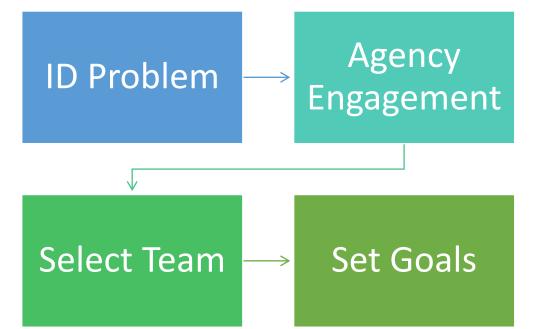


Move Forward





Envision and Prepare









Prepare

Contract Team

Information Sharing

Identify Challenges/

Site Visit





Ancillary Features – Not Quite There







Marsh

3M Target (FEIR/S and RWQCB)

Provide a new 3-5 acre marsh to provide bird foraging opportunities and educational/ interpretive benefits. An interspersed mixture of vegetated marsh, salt pannes, and mud flats over 3-5 acres would satisfy the performance criteria for this element.





MHEA 3-5 Acre Educational Marsh



Avian Islands

3M Target (TAC and FEIR/S)

Table 1-1. Provide improved bird habitat, with reduced predators and human disturbance through construction of four avian islands, each being a maximum size 5,000 sq. ft. and by providing a protected area along the shoreline of the UP Mole. (Rebuild islands if total square footage decreases below 5,000 sq. ft.)





Avian Islands







Beach Area Criteria (3M Plan)

<u>3M Target (FEIR/S and RWQCB Permit)</u>

"Provide new public access beach area that will also provide storm refuge to birds."

Measure of Success

No technical requirements for beach length or size.

MHEA designed to be self-sustaining

(Section 1.3.1)





Public Access Beach – Current Condition

Provide new public access beach area that will also provide storm refuge to birds.



Implement

1 Day Charrette

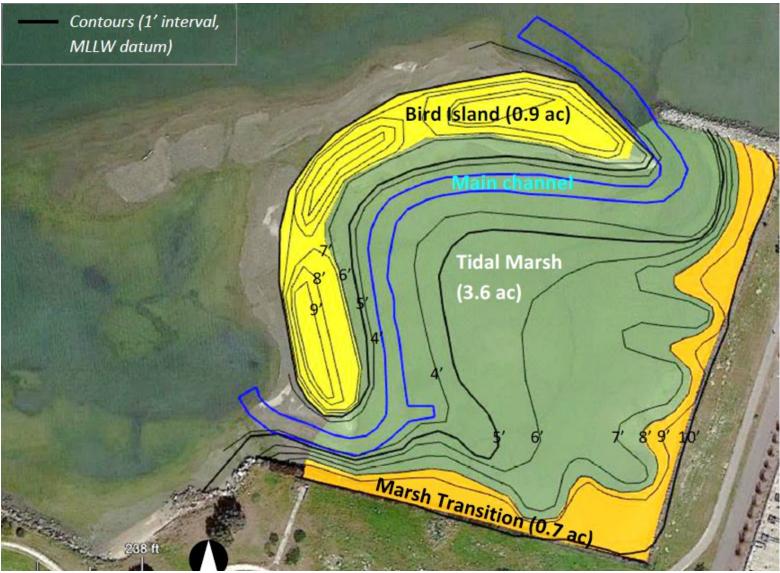
Follow Up Meeting

Create Design Alternatives





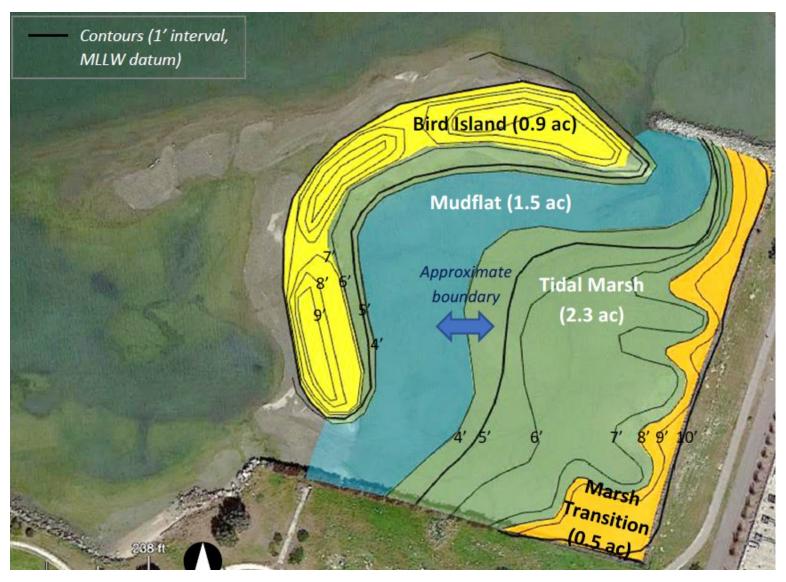
Alternative 1 – Tidal Marsh







Alternative 2 – Interspersed Estuarine Habitats







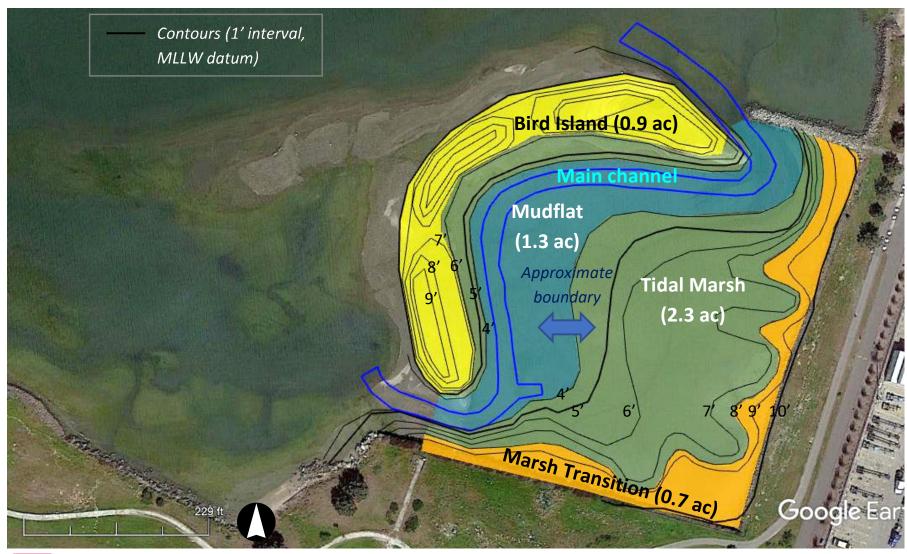
Alternative 3 – Current Mudflat







Alternative 4 – Interspersed Habitats







Educational Marsh Decision

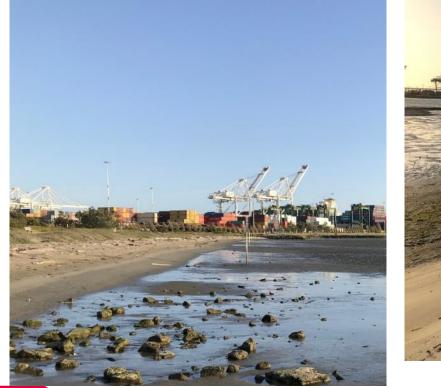
 Alternative 3 meets marsh criteria but doesn't meet avian roosting habitat criteria.

 Alternative 4 – more transition habitat; meets criteria, incorporates mudflat. Meets Avian Roosting Habitat requirement.





Beach Area – Alternative 1 Current Condition

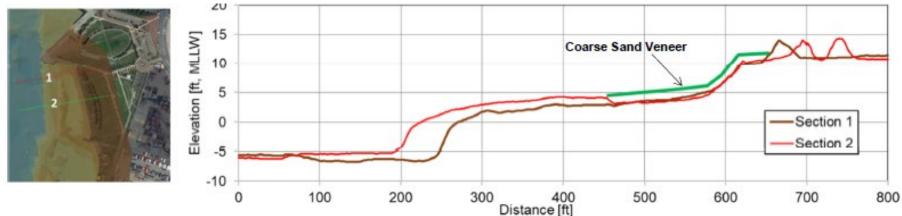


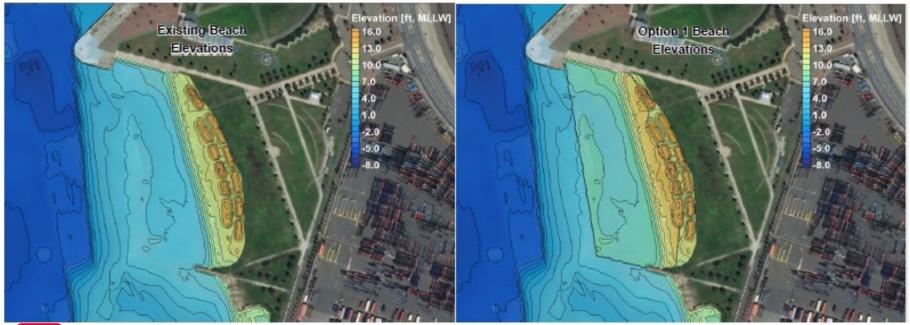






Beach Area – Alternative 2





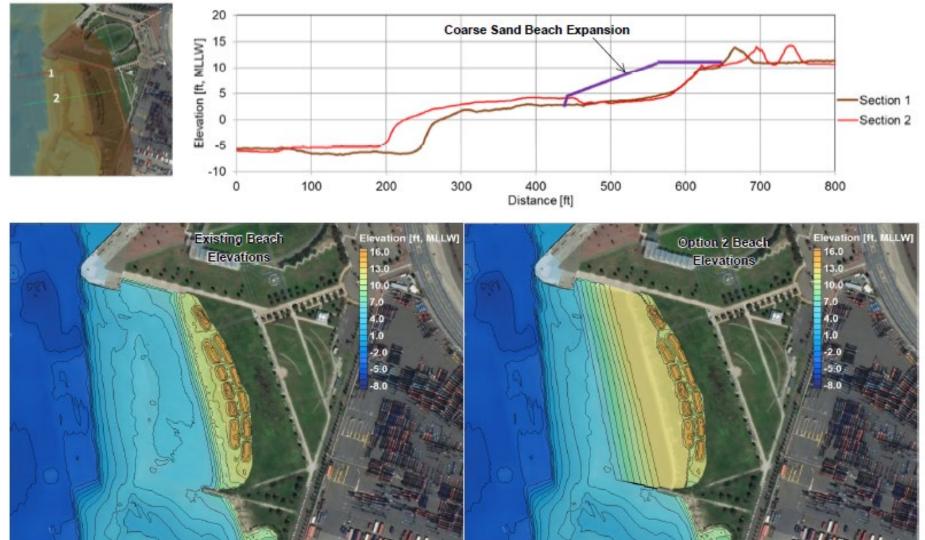


of Engineers ®

San Francisco District



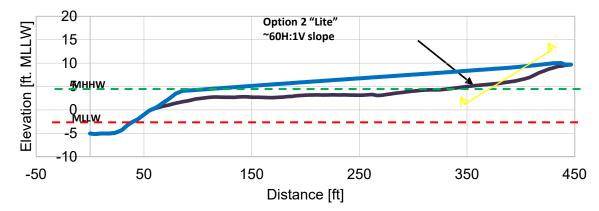
Beach Area – Alternative 3

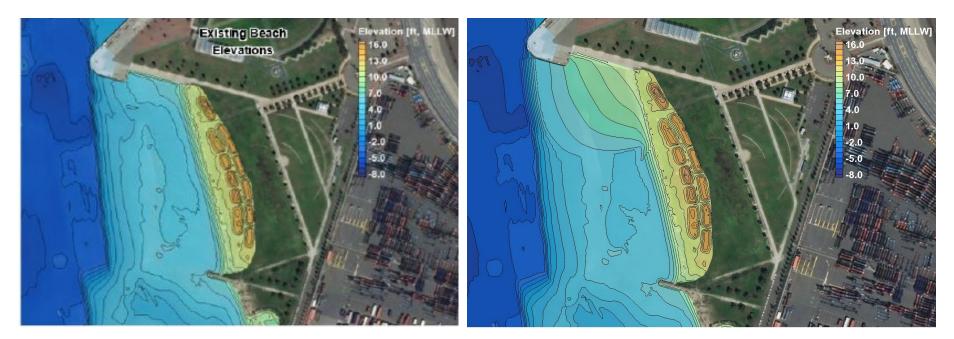






Beach Area – Alternative 4









Beach Decision

• No criteria given for beach (all qualify)

• Ability to "touch the water" (original intent)

 Alternative 4 – allows for public access to water





Design Charrette Background

- 4/19/19 BCDC requests design charrette during a TAC meeting
- Spring/Summer 2019 Port staff engaged BCDC and procured funding for TAC, sent information to team
- November 2019 Charrette team performed site visit with Port/USACE/BCDC followed by 1-day TAC
- 12/13/19 Post Charrette follow up meeting
- April 2020 Draft designs submitted to Port/USACE and BCDC
- May 2020 shared designs with BCDC. Gathered agency input.
- May 2020 shared designs with technical advisory committee (TAC). TAC voted unanimously on designs.







The Takeaway

5

- Early agency coordination is important
- Efficient way to make progress (13 months total)
- Good value (< \$75,000)
- Document EVERYTHING



Thank you to the charrette team –

Stuart Siegel, Scott Fenical, Michelle Orr, Bill Rudolph, Susan de la Cruz, Keith Merkel, Dilip Trivedi, Eric Jolliffe (USACE), Edwin Draper (Port)

Jan Novak, PWS* Associate Environmental Planner/Scientist Port of Oakland