



Community Meeting #2

South Cove Sailing Basin Dredging Project & Seawall Study

Zoom Meeting, 6pm, November 6, 2024

Taylor Lancelot, Project Manager
Associate Civil Engineer

Nelson Lam
Supervising Civil Engineer

Department of Parks, Recreation & Waterfront

Parks
Make
Life
Better!



Projects at Northside of Waterfront

A. Selective Timber Pile Replacement Project

Completed in late 2023.

B. Docks D&E Replacement Project

Construction started - August 2024

Demolition of existing docks completed - October 17, 2024

Anticipated Completion in late 2025.

C. Marina Harbor and Entrance Dredging Project

Construction started - Sept 2024

Entrances and Main Fairway completed - Oct, 2024

Anticipated Completion in 2025 (areas under D&E, and various Docks)

D. South Cove West Parking lot Paving

Anticipated to start Spring 2025

D. EBRPD's North Basin Feasibility Study

Partnership with EBPRD.

Focusing on shoreline resiliency & enhancing public access

Webpage: <https://www.ebparks.org/projects/north-basin-strip-shoreline-improvement-project-berkeley>

Public Survey: https://www.surveymonkey.com/r/north_basin_strip

Community Meeting #2 - South Cove Sailing Basin Dredging Project and Seawall Study

HELP PLAN A PARK!
North Basin Strip Community Meeting

SUNDAY NOVEMBER 17
10:00 AM – 12:00 PM
RAIN OR SHINE!

Meet at the North Basin Strip
South of Gilman Sports Field in Berkeley, CA

GIVE US YOUR INPUT ON THE FUTURE PARK DEVELOPMENT

- Learn about the site!
- Share your feedback
- Join a site tour
- Enjoy coffee & snacks

Scan to learn more and RSVP
www.ebparks.org/projects/north-basin-strip-shoreline-improvement-projects-berkeley

North Basin Strip Shoreline Park Improvement Project,
South of Gilman Sports Field in Berkeley, CA | M. Eastshore State Park

Coastal Conservancy
CITY OF BERKELEY
Parks Make Life Better!

November 6, 2024

Summary of Previous Community Engagement Series on South Cove Sailing Basin Dredging Project and Seawall Repair Study

Community Meeting #1 – April 18, 2024

- Presented dredging's regulatory permitting process & how construction cost is determined
- Presented current conditions and results of the hydrographic survey
- Determined variety of uses in the basin including use area and discussed preferred depth
- Presented the need for a seawall study and previous condition assessments

Feedback From the Community

- Strong desire from the community to see cost estimates for various depths
- Kayakers would like to be added to the use list and would like to see a beach launch in the southwest corner
- Overall concern on how long the dredged area will remain deep
- Concern on mixed use within the basin after dredging
- Mixed feelings on dredge depth, shallower to keep costs low vs deeper in the event dredging may never happen again
- Need for a deeper launch point elsewhere in the marina
- General agreement with dredge area priorities presented

Goals Community Engagement Series on South Cove Sailing Basin Dredging Project and Seawall Repair Study

Community Meeting #2 – November 6, 2024

- Review new funding obtained for seawall study
- Present timeline for Seawall Replacement Project
- Review permitting process and timeline
- Present engineer's estimates on various depths and areas
- Understand sampling strategy and next steps

Community Meeting #3 – TBD (likely Summer/Fall 2025)

- Review sample results and disposal requirements from the DMMO
- Present more refined cost estimates
- Building consensus in the community to prioritize dredge area and depths that benefit all users to seek construction funding

South Cove Sailing Basin Seawall Replacement Study

Design and Permitting : FUNDED – PRW ask was for \$500,000. Council funded \$250,000

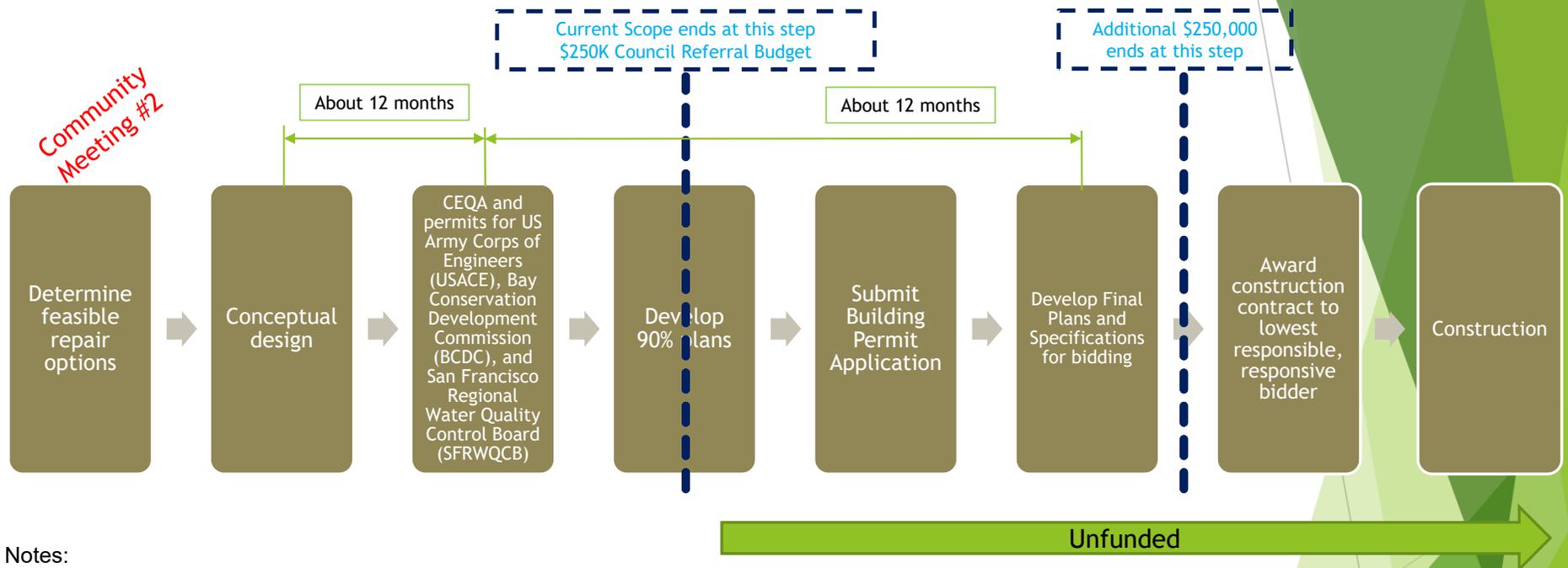
Additional \$250,000 on budget referral at Council on November 12 and considered on November 19.

Rough Order Magnitude Cost Estimate: \$4.5 to 5 Million (Unfunded)



Existing Structure Constructed in 1967

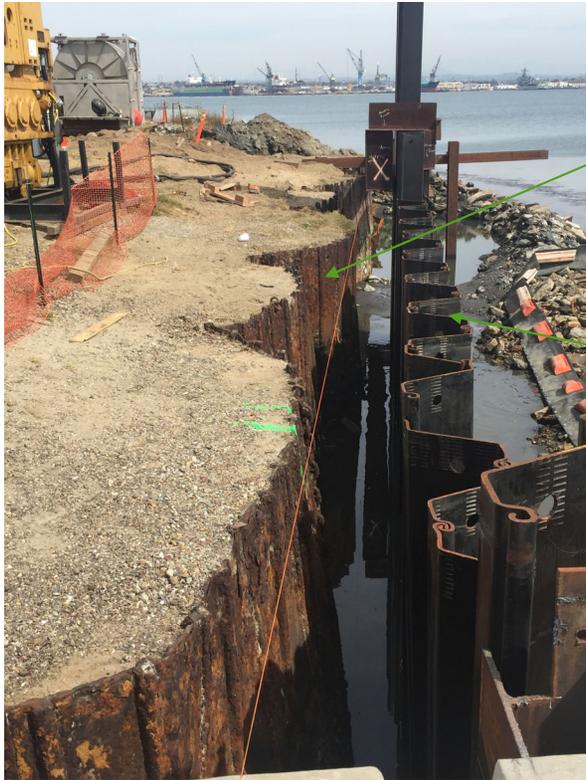
South Cove Sailing Basin Seawall Replacement Study



Notes:

- BCDC will review for climate change resiliency
- Construction funding is not identified
- Repair estimates will be presented at following community meetings

Open Discussion: Repair Options



Naval Amphibious Base Coronado in San Diego

Old sheet pile wall

New sheet pile wall

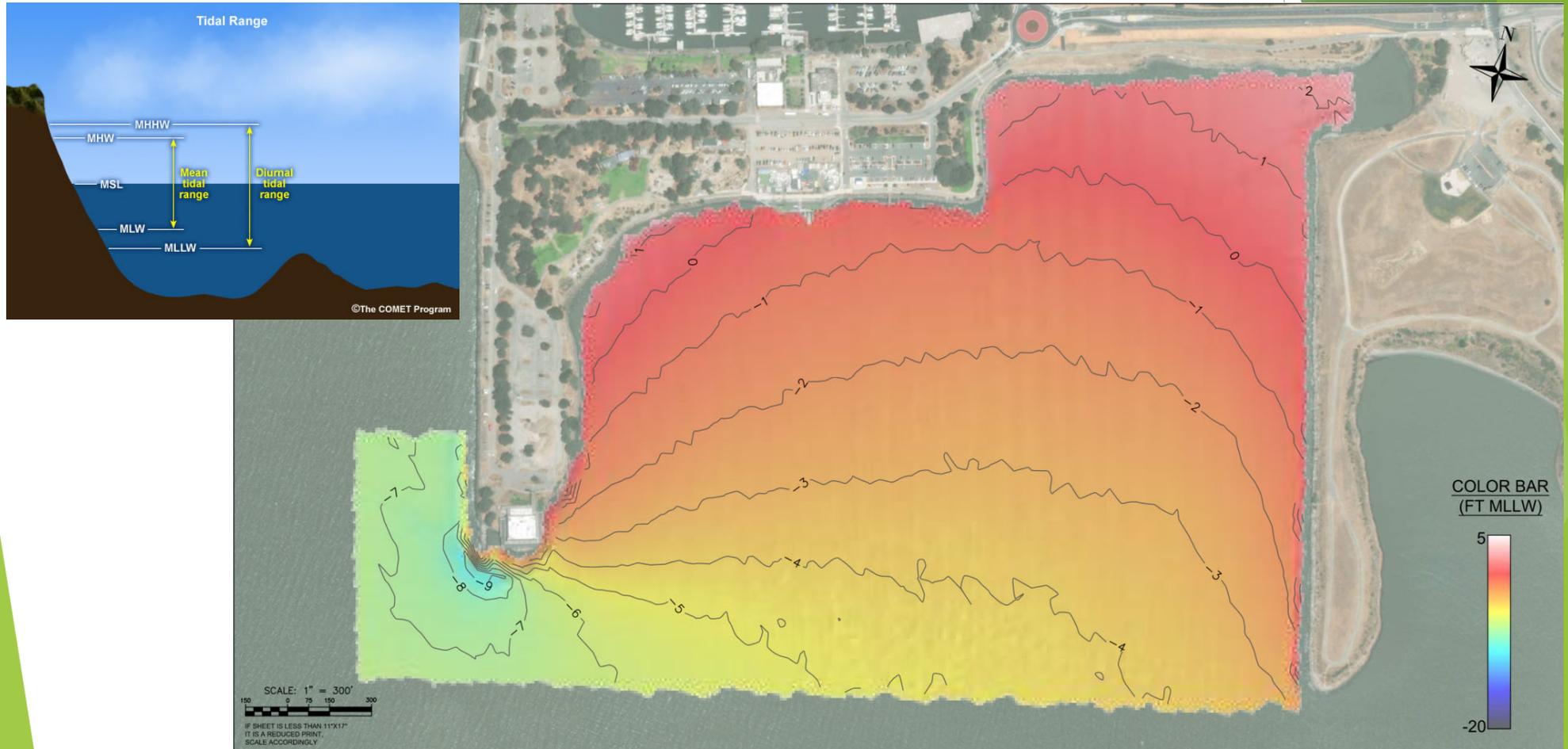


Community Meeting #2 - South Cove Sailing Basin Dredging Project and Seawall Study

November 6, 2024

Questions?

South Cove Sailing Basin Dredging - Existing Conditions

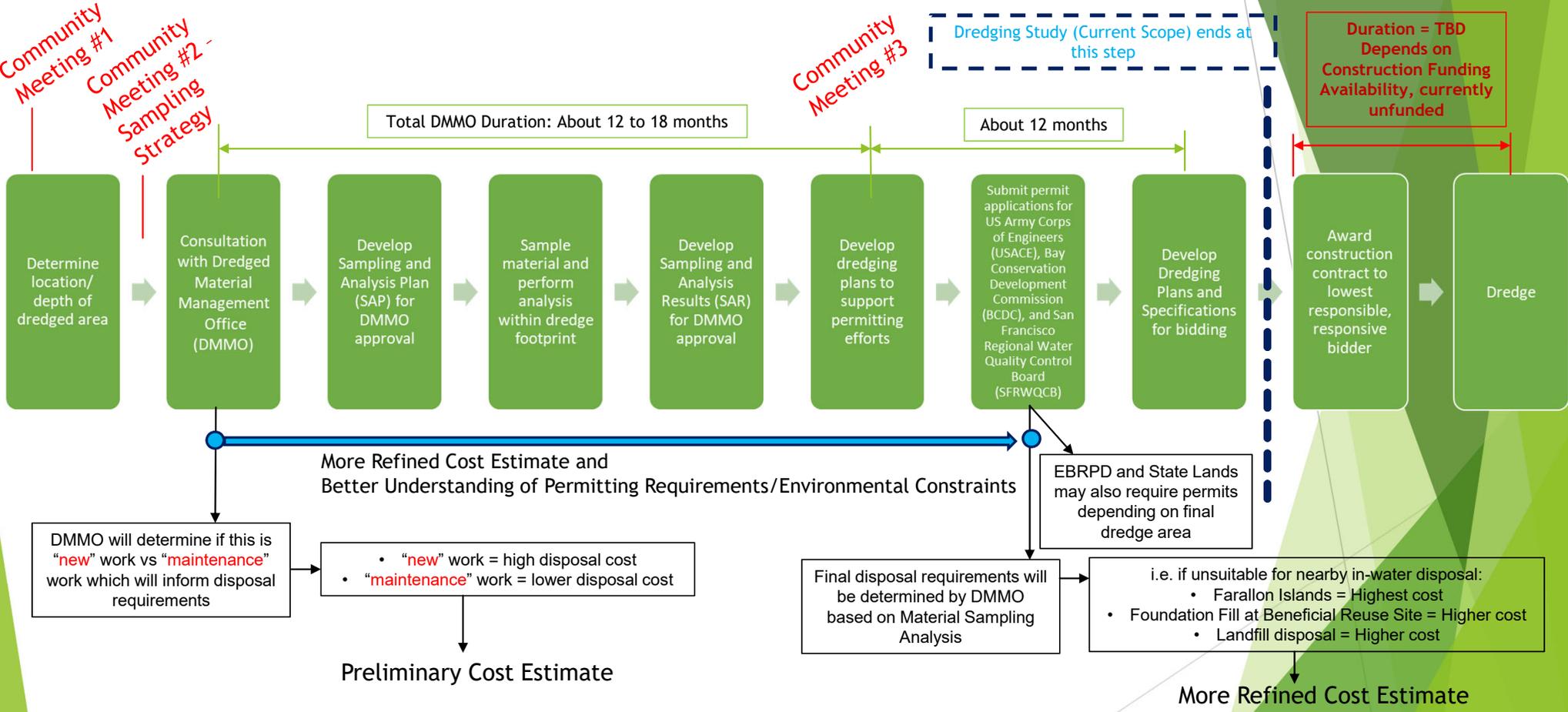


Uses of the Basin and Depth Discussion

<u>Uses of the South Cove Sailing Basin</u>	<u>Desired Depth/Draft at MLLW (Feedback from Community Meeting #1)</u>
Sailing Craft (Cal Sailing/Cal Adventures)	5'-6'
Windsurfing	1'
Wingfoiling	4'
Standup Paddleboard	1'
Swimming	2'
Kayaking	2' (can launch in 0.5')



Dredging Flowchart and Project Timeline



Use Areas and Desired Dredge Depth



Rough Order of Magnitude Estimate

Area	Depth	Volume (CY)	Cost ¹	Cost ²
A	-2	12,000	\$ 720,000	\$ 1,200,000
B	-2	11,000	\$ 660,000	\$ 1,100,000
C	-2	12,000	\$ 720,000	\$ 1,200,000
Total		35,000	\$ 2,100,000	\$ 3,500,000

Area	Depth	Volume (CY)	Cost ¹	Cost ²
A	-3	35,000	\$ 2,100,000	\$ 3,500,000
B	-3	24,000	\$ 1,440,000	\$ 2,400,000
C	-3	36,000	\$ 2,160,000	\$ 3,600,000
Total		95,000	\$ 5,700,000	\$ 9,500,000

Area	Depth	Volume (CY)	Cost ¹	Cost ²
A	-4	68,000	\$ 4,080,000	\$ 6,800,000
B	-4	41,000	\$ 2,460,000	\$ 4,100,000
C	-4	71,000	\$ 4,260,000	\$ 7,100,000
Total		180,000	\$ 10,800,000	\$ 18,000,000

Area	Depth	Volume (CY)	Cost ¹	Cost ²
A	-5	104,000	\$ 6,240,000	\$ 10,400,000
B	-5	58,000	\$ 3,480,000	\$ 5,800,000
C	-5	107,000	\$ 6,420,000	\$ 10,700,000
Total		269,000	\$ 16,140,000	\$ 26,900,000

- Cost tied directly to disposal requirements (DMMO)
- Sample Areas A, B, and C
- Goal: Future dredge episodes can be defined anywhere within A, B, or C

Dredging Estimates Example Analysis

South Cove Sailing Basin Project Dredge Depth Matrix

Tidal data is taken from NOAA Station 9414750 located near the Port of Oakland. Location was chosen for availability of data and proximity to the study area. Data is pulled from hourly observed tides. 2022 was selected as a representative year.

Area	Depth	Volume (CY)	Cost ¹		Cost ²		Volume					
			Cost ¹	Cost ²	Depth	Volume (CY)	Cost ¹	Cost ²	Depth	Volume (CY)	Cost ¹	Cost ²
A	-2	12,000	\$ 720,000	\$ 1,200,000	-3	35,000	\$ 2,100,000	\$ 3,500,000	-4	68,000	\$ 4,080,000	\$ 6,800,000
B	-2	11,000	\$ 660,000	\$ 1,100,000	-3	24,000	\$ 1,440,000	\$ 2,400,000	-4	41,000	\$ 2,460,000	\$ 4,100,000
C	-2	12,000	\$ 720,000	\$ 1,200,000	-3	36,000	\$ 2,160,000	\$ 3,600,000	-4	71,000	\$ 4,260,000	\$ 7,100,000
Total		35,000	\$ 2,100,000	\$ 3,500,000		95,000	\$ 5,700,000	\$ 9,500,000		180,000	\$ 10,800,000	\$ 18,000,000

Total Hours unable to sail in 2022*: 1592

Dredging Options	Cost ¹	Cost ²	Hours Unable to Sail After Dredging*	Sailing Hours Gained*	Cost Per Hour ¹	Cost Per Hour ²
-2	\$ 2,100,000	\$ 3,500,000	630	962	\$ 2,182.95	\$ 3,638.25
-3	\$ 5,700,000	\$ 9,500,000	264	1328	\$ 4,292.17	\$ 7,153.61
-4	\$ 10,800,000	\$ 18,000,000	19	1573	\$ 6,865.86	\$ 11,443.10

¹ Work is defined as "maintenance" work by DMMO (\$60/CY)

² Work is defined as "new" work by DMMO (\$100/CY)

* Sailing hours based upon a 3 foot depth requirement at launch area during a sailing day.

A sailing day is defined as 8am-5pm November through April, and 7am-7pm May through October

Questions/ Comments

Contact:
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Project Websites

<https://berkeleyca.gov/your-government/our-work/capital-projects/south-cove-sailing-basin-dredging-study>

<https://berkeleyca.gov/your-government/our-work/capital-projects/south-cove-sailing-basin-seawall-study>

