

**Harbor Safety Committee
Of the San Francisco Bay Region**

**Report of the
U.S. Army Corps of Engineers, San Francisco District
July 14, 2022**

1. CORPS O&M DREDGING PROGRAM

The FY22 project schedules are included in this report. The FY22 Consolidated Appropriations Act was signed into law on March 15th providing funds to the Corps to execute this year's dredging program.

Planning for the FY22 dredging program has been completed and we are now transitioning to execution mode as all projects have achieved at least the bid opening stage.

FY 2022 DREDGING

- a. **Richmond Inner Harbor** – Bid opening for the dredging contract solicitation was held on May 13. The contract was awarded to Pacific Dredge on May 27. Dredging is estimated to start mid-July.
- b. **San Joaquin River (Port of Stockton)** – Bid opening for the dredging contract solicitation was held on May 31. The contract was awarded to Ross Island Sand & Gravel on June 10. The earliest dredging can begin is on August 1 when the environmental window opens.
- c. **Sacramento River Deep Water Ship Channel** – Bid opening for the dredging contract solicitation was held on June 6. The contract was awarded to The Dutra Group on June 21. The earliest dredging can begin is on August 1 when the environmental window opens.
- d. **Suisun Bay Channel (and New York Slough)** – Bid opening for the dredging contract solicitation was held on June 13. The contract was awarded to Camenzind Dutra JV on June 24. The earliest dredging can begin is on August 1 when the environmental window opens. However, dredging is estimated to start mid-August. On June 6, the U.S. Coast Guard notified the Corps of a hazardous shoal on the approach to the Union Pacific Railroad Bridge crossing in Bulls Head Reach of Suisun Bay Channel. The Essayons was transiting from the SF Main Ship Channel to Richmond Outer Harbor when the Corps diverted it to Bulls Head to remove the hazards. Dredging took place from June 15 to 16.
- e. **San Rafael Creek** – Bid opening for the dredging contract solicitation was held on June 23. The contract was awarded to Camenzind Dutra JV on July 7. Dredging is estimated to start mid to late August. Dredging will be performed in both the Inner Canal and Across-the-Flats reaches of the project. The project was last dredged in 2011.
- f. **Oakland Harbor** – Bid opening for the dredging contract solicitation was held on June 30. Contract award is tentatively scheduled for mid-July and dredging estimated to start late August. Half of the dredged material is planned for in-bay disposal while the other half will be beneficially reused at a site of the contractor's choosing.
- g. **Napa River** – Bid opening for the dredging contract solicitation was held on July 11. Contract award is tentatively scheduled for late July and dredging estimated to start early September. Dredging will be performed in the upper reaches only. The project was previously dredged in 2016.

- h. SF Main Ship Channel** – The Government Hopper Dredge Essayons arrived on station and began dredging at the Main Ship Channel on June 2. The Essayons completed work on Jun 14 and was diverted to Bulls Head Reach of the Suisun Bay Channel to conduct emergency dredging operations in that location.
- i. Richmond Outer Harbor (and Richmond Long Wharf)** – Following completion of the Main Ship Channel and emergency dredging at Bulls Head, the Essayons moved on to Richmond Outer Harbor and started dredging there on June 16 and finished on July 1.
- j. San Pablo Bay (Pinole Shoal)** – Dredging is deferred to FY23 to remain in compliance with the Water Quality Certification for SF Bay Area Dredging.
- k. Redwood City Harbor** – This project is currently on a 2-year cycle and dredging last occurred in FY21. An assessment was recently done comparing advance maintenance to annual dredging. The result of the analysis supports switching to annual dredging beginning in FY23.

2. EMERGENCY (URGENT & COMPELLING) DREDGING: In early June, hydrosurveys revealed the presence of hazardous shoaling at Bulls Head Reach of Suisun Bay Channel. Emergency dredging procedures were activated leading to the diversion of the Essayons to remove the hazard as mentioned earlier.

3. DEBRIS REMOVAL –Debris removal for June was 2.5 tons. Dillard: 2.5 tons, including 1 abandoned vessel; Raccoon: 0 tons. Average debris removal for June from 2012 to 2021 is 61 tons (Range: 7-114.5).

BASEYARD DEBRIS COLLECTION TOTALS:

MONTH	RACCOON	DILLARD	MISC	TOTAL
2022	TONS	TONS	TONS	TONS
JAN	0	374	0	374
FEB	0	37	3	40
MAR	0	23	0	23
APR	0	21	0	21
MAY	0	7	0	7
JUN	0	2.5	0	2.5
JUL				
AUG				
SEP				
OCT				
NOV				
DEC				

YR TOTAL
467.5

4. UNDERWAY OR UPCOMING HARBOR IMPROVEMENTS

Oakland Harbor Turning Basins Widening Study: This study will investigate and determine if there is a technically feasible, economically justifiable, and environmentally acceptable recommendation for federal participation in a navigation improvement project to the existing - 50-foot Oakland Harbor Federal Navigation Project. The scope of the tentatively selected plan includes expansion of both inner and outer basins for a 1,310-foot design vessel. This expansion is expected to meet the needs of the future fleet. A NED waiver to continue with a Comprehensive Benefits Plan (CBP), which includes electric dredging, was submitted to the Assistant Secretary of the Army (ASA) by USACE Headquarters. The Final decision by the ASA to continue with the CBP is pending after their assessment of the public review comments.

The Draft Integrated Feasibility Report (IFR) was released on 17 December 2021 for public comment. The Agency Decision Milestone (ADM) is scheduled for May 12th. The 3x3x3 feasibility study is on track and on budget. However, 3X3X3 compliance will need to be reassessed after public comments are received.

5. OTHER WORK

Regional Dredge Material Management Plan: Following public and stakeholders' outreach for the PMP, the project is now in phase 1 gap analysis to address the key issues as identified by the stakeholders from the virtual charrettes held in July 2020. SFEI has been contracted to perform this phase and is coordinating with the Interagency Working Group (IWG) to provide expert advice and review of work products associated with the RDMMP Gaps Analysis, including prioritizing the knowledge gaps identified by the project team and reviewing the scopes of work produced to address those knowledge gaps. Information on the RDMMP and draft final PMP can be found on our website:

<https://www.spn.usace.army.mil/Missions/Projects-and-Programs/Regional-Dredge-Material-Management-Plan/>

USACE Work Plan Web Address: <http://www.usace.army.mil/Missions/Civil-Works/Budget/>

6. HYDROGRAPHIC SURVEY UPDATE

Address of Corps' web site for completed hydrographic surveys:

<http://www.spn.usace.army.mil/Missions/Surveys,StudiesStrategy/HydroSurvey.aspx>

The following surveys are posted:

- Alameda Naval Navigation Channel:** Condition survey of October 14, 2021.
- Berkeley Marina (Entrance Channel):** Condition survey of April 22, 2021.
- Islais Creek Channel:** Condition survey of August 26, 2021.
- Larkspur Ferry Channel:** Condition survey of April 8, 2020.
- Mare Island Strait:** Condition survey of September 29, 2021.
- Marinship Channel (Richardson Bay):** Condition survey of June 23, 2020 and April 20, 2021.
- Napa River:** Condition survey of June 14-15, 2022.
- Northship Channel:** Condition survey of September 20, 21, & 28, 2021.
- Oakland Inner Harbor:** Condition survey of May 11, 2022.
- Oakland Inner Harbor (Brooklyn Basin):** Condition survey of 15-20 January 2021.
- Oakland Outer Harbor:** Condition survey of May 12, 2022.
- Petaluma River (Across-the-Flats):** Condition survey of 16 November 2021 – 29 March 2022.
- Petaluma River (Main Channel):** Condition survey of 16 November 2021 – 29 March 2022.
- Petaluma River (Extended Channel):** Condition survey of 16 November 2021 – 29 March 2022.
- Pinole Shoal Channel:** Condition survey of April 27, May 4, and May 10, 2022.
- Redwood City Harbor:** Condition survey of March 15-16, 2022.
- Richmond Inner Harbor:** Condition survey of June 8-10, 2022.
- Richmond Inner Harbor (Santa Fe Channel):** Condition survey of December 20, 2016.
- Richmond Outer Harbor (Longwharf):** Condition survey of June 8, 2022.

Richmond Outer Harbor (Southampton Shoal): Condition survey of June 8, 2022.
Sacramento River Deep Water Ship Channel: Condition Survey of April 20-28, 2022.
San Bruno Shoal: Condition survey of February 26, 2021.
San Francisco Main Ship Channel: After dredge survey of June 22-23, 2022.
San Leandro Marina (and Channel): Condition survey of March 30 and April 1, 2015.
San Rafael (Across-the-Flats): Condition survey of April 12-13, 2022.
San Rafael (Creek): Condition survey of April 12-13, 2022.
Stockton Ship Channel: Condition survey of April 1-4, 2022.
Suisun Bay Channel: Condition survey of May 15-17, 2022.
Suisun Bay Channel (Bullshead Reach): After dredge survey of June 16, 2022.
Suisun Bay Channel (New York Slough): Condition survey of April 1-4, 2022.

Disposal Site Condition Surveys:

SF-08 (Main Ship Channel Disposal Site): Condition survey of May 24, 2022.
SF-09 (Carquinez): Condition survey of March 17, 2022.
SF-10 (San Pablo Bay): Condition survey of March 17, 2022.
SF-11 (Alcatraz Island): Condition survey of June 10, 2022.
SF-16 (Suisun Bay Disposal Site): Condition survey of October 20, 2021.
SF-17 (Ocean Beach Disposal Site): Condition survey of May 24, 2022.

Requested Surveys:

Pre/Post-dredge and condition surveys have been completed for all of San Francisco District's in-bay projects dredged in FY21.

Channel Condition Report (CCR):

Attached is the Channel Condition Report (CCR) for all Corps maintained channels dated **11 JUL 2022**. The CCR is generated by the USACE eHydro database and is not a substitute for the controlling depths set by the SF Bar Pilots. Please see the respective bathymetric plots for locations (highlighted in red) of the shoaliest soundings reports in the CCR.

FY 2022 O&M DREDGING PLAN*

Project	Bid Open	Award	FY2022					FY2023					Estimated CY	Dredge Type	Placement Site								
			FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV				DEC	JAN	FEB					
CONTRACT CLAMSHELL OR CUTTERHEAD PIPELINE																							
Richmond Inner Harbor	13-May (A)	27-May (A)													410kcy	Contract Clam Shell	SF-DODS						
San Joaquin River (Port of Stockton)	31-May (A)	10-Jun (A)													180kcy	Contract Pipeline	Various Upland						
Sacramento River (30 Foot Project)	6-Jun (A)	21-Jun (A)													80kcy	Contract Pipeline	Various Upland						
Suisun Bay Channel	13-Jun (A)	24-Jun (A)													120kcy	Contract Clam Shell	Upland						
San Rafael Creek	23-Jun (A)	7-Jul (A)													235kcy 25kcy	Contract Clam Shell	SF-10 SF-DODS						
Oakland Harbor	30-Jun (A)	14-Jul (S)													375kcy 375kcy	Contract Clam Shell	SF-11 Upland						
Napa River	11-Jul (A)	25-Jul (S)													55kcy	Contract Clam Shell	Coombs						
WEST COAST HOPPER CONTRACT																							
Humboldt Bar & Entrance Channels	9-Mar (A)	28-Mar (A)						WCH							1100kcy	WCHC (Portland)	HOODS						
GOVERNMENT HOPPER																							
Humboldt Interior Channels	N/A	N/A										YAQ (TBD)			150kcy	Govt Hopper	HOODS						
SF Main Ship Channel	N/A	N/A						ESS							350kcy	Govt Hopper	OBDS/SF-8						
Bulls Head Emergency Dredging	N/A	N/A						ESS							15kcy	Govt Hopper	SF-16						
Richmond Outer Harbor	N/A	N/A						ESS							300kcy	Govt Hopper	SF-11/SF-10						
				Solicitation			Bid Opening			Contract Award			Hopper Dredging			Environmental Window			Mobilization			Physical Dredging	
								WCH	West Coast Hopper Contract														
									YAQ	Gov't Dredge Yaquina													
										ESS	Gov't Dredge Essayons												

* Program execution is based on the FY22 President's Budget and Work Plan.

**REPORT OF CHANNEL CONDITIONS
400 FEET WIDE OR GREATER**

To: Navigation Interests			From: US Army Corps of Engineers San Francisco District 450 Golden Gate Ave San Francisco, CA 94102					
RIVER/HARBOR NAME AND STATE NAPA RIVER CALIFORNIA					MINIMUM DEPTHS IN EACH 1/4 WIDTH OF CHANNEL ENTERING FROM SEAWARD			
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)				
Mare Island Strait Causeway to Asylum Slough	06-14-2022	75 245	3.19	15	4.8	9.0	9.0	7.3
Napa River Asylum Slough to Napa City	06-14-2022	102 183	9.92	10	0.5	1.6	1.2	0.6

**REPORT OF CHANNEL CONDITIONS
400 FEET WIDE OR GREATER**

To: Navigation Interests		From: US Army Corps of Engineers San Francisco District 450 Golden Gate Ave San Francisco, CA 94102						
RIVER/HARBOR NAME AND STATE OAKLAND HARBOR CALIFORNIA					MINIMUM DEPTHS IN EACH 1/4 WIDTH OF CHANNEL ENTERING FROM SEAWARD			
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)				
Brooklyn Basin Brooklyn Basin	01-15-2021	147 1501	0.94	35	6.2	8.0	17.3	7.2
Brooklyn Basin Brooklyn Basin	01-15-2021	250 1010	2.74	35	8.4	3.9	3.0	3.0
Oakland Harbor Oakland Inner Harbor	05-11-2022	544 1997	4.62	50	47.2	48.5	48.5	47.4
Oakland Harbor Oakland Outer Channel	05-12-2022	296 1761	2.52	50	48.3	48.9	48.9	48.5

REPORT OF CHANNEL CONDITIONS
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To: Navigation Interests		From: US Army Corps of Engineers San Francisco District 450 Golden Gate Ave San Francisco, CA 94102						
RIVER/HARBOR NAME AND STATE OTHER CALIFORNIA					MINIMUM DEPTHS IN EACH 1/4 WIDTH OF CHANNEL ENTERING FROM SEAWARD			
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)				
San Bruno Shoal San Bruno Shoal	10-28-2021	500	5.66	30	28.7	30.2	31.1	29.5
Richardson Bay/Marinship Richardson Bay/Marinship	06-23-2020	300 1069	2.11	20	4.6	6.0	6.4	6.4
Islais Creek Islais Creek	08-27-2021	500 1424	1.71	40	30.7	37.5	37.5	23.9
Alameda Naval Air Alameda Naval Air	10-14-2021	1000 4178	2.90	37	11.5	12.5	19.0	17.2
Mare Island Strait Mare Island Strait	09-29-2021	400 606	3.37	30	27.3	29.1	31.8	32.1
Larkspur Channel Larkspur Channel	07-11-2019	231 542	2.37	13	6.5	10.0	9.7	8.0
Northship Channel Northship Channel	09-20-2021	3576 4769	5.97	45	23.1	38.2	37.8	35.2
Berkeley Marina Berkeley Marina	04-22-2021	100 142	1.36	6	3.5	3.8	4.3	4.3
Bodega Bay Bodega Bay	09-24-2021	100 400	3.46	12	3.4	10.0	10.5	7.9
Moss Landing Moss Landing	03-31-2021	120 405	0.98	6	13.2	12.3	11.1	10.9

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To: Navigation Interests		From: US Army Corps of Engineers San Francisco District 450 Golden Gate Ave San Francisco, CA 94102						
RIVER/HARBOR NAME AND STATE PETALUMA RIVER CALIFORNIA					MINIMUM DEPTHS IN EACH 1/4 WIDTH OF CHANNEL ENTERING FROM SEAWARD			
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)				
Petaluma River Main Channel	03-29-2022	100 361	4.06	8	4.2	7.3	5.2	1.6
Petaluma River ATF Across the Flats	12-15-2020	200 206	5.68	8	6.3	8.8	8.3	8.2

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To: Navigation Interests		From: US Army Corps of Engineers San Francisco District 450 Golden Gate Ave San Francisco, CA 94102						
RIVER/HARBOR NAME AND STATE PINOLE SHOAL CALIFORNIA					MINIMUM DEPTHS IN EACH 1/4 WIDTH OF CHANNEL ENTERING FROM SEAWARD			
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)				
Pinole Shoal Channel Pinole Shoal Channel	04-27-2022	600 1644	 10.40	 35	 30.1	 35.3	 36.1	 33.3

**REPORT OF CHANNEL CONDITIONS
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To: Navigation Interests		From: US Army Corps of Engineers San Francisco District 450 Golden Gate Ave San Francisco, CA 94102						
RIVER/HARBOR NAME AND STATE REDWOOD CITY CALIFORNIA					MINIMUM DEPTHS IN EACH 1/4 WIDTH OF CHANNEL ENTERING FROM SEAWARD			
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)				
Redwood City Harbor Redwood City Harbor	03-15-2022	300 943						

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To: Navigation Interests				From: US Army Corps of Engineers San Francisco District 450 Golden Gate Ave San Francisco, CA 94102				
RIVER/HARBOR NAME AND STATE RICHMOND HARBOR CALIFORNIA						MINIMUM DEPTHS IN EACH 1/4 WIDTH OF CHANNEL ENTERING FROM SEAWARD		
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)				
Richmond Inner Harbor Entrance Channel	06-08-2022	809	0.96	38	35.1	36.0	36.4	35.8
		1021						
Richmond Inner Harbor Approach Channel	06-08-2022	809	3.09	38	33.6	34.9	35.7	34.3
		1201						
Richmond Inner Harbor Santa Fe Channel	02-26-2019	195	0.37	38	33.7	35.4	36.4	36.0
		509						
Richmond Outer Harbor Richmond Outer Harbor	06-08-2022	600	3.25	45	40.8	44.2	43.9	42.4
		1291						
Richmond Outer Harbor Longwharf Turning Basin	06-06-2022	2188	0.88	45	26.3	No Data	No Data	No Data
		5598						

REPORT OF CHANNEL CONDITIONS

400 FEET WIDE OR GREATER

To: Navigation Interests		From: US Army Corps of Engineers San Francisco District 450 Golden Gate Ave San Francisco, CA 94102						
RIVER/HARBOR NAME AND STATE SAN FRANCISCO CALIFORNIA					MINIMUM DEPTHS IN EACH 1/4 WIDTH OF CHANNEL ENTERING FROM SEAWARD			
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)				
San Francisco Mainship San Francisco Mainship	06-22-2022	2000	4.96	55	51.5	54.9	55.2	53.9

REPORT OF CHANNEL CONDITIONS
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To: Navigation Interests		From: US Army Corps of Engineers San Francisco District 450 Golden Gate Ave San Francisco, CA 94102						
RIVER/HARBOR NAME AND STATE SAN LEANDRO CALIFORNIA					MINIMUM DEPTHS IN EACH 1/4 WIDTH OF CHANNEL ENTERING FROM SEAWARD			
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)				
SAN LEANDRO MARINA Approach Channel	03-30-2015	200	3.50	7	2.8	3.6	3.4	3.2
SAN LEANDRO MARINA North Arm	03-15-2010	170	0.30	7	2.7	3.6	3.8	3.9
SAN LEANDRO MARINA South Arm	03-15-2010	150	0.30	7	3.3	4.7	4.6	4.8

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RIVER/HARBOR NAME AND STATE SAN RAFAEL CALIFORNIA					MINIMUM DEPTHS IN EACH 1/4 WIDTH OF CHANNEL ENTERING FROM SEAWARD			
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)				
San Rafael ATF Across the Flats	04-12-2022	100	2.25	8	2.8	3.9	3.3	2.6
San Rafael River Inner Canal Channel	04-12-2022	60 160	1.55	6	1.4	1.6	1.0	0.8

