

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

**Report of the
U.S. Army Corps of Engineers, San Francisco District
October 13, 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 have officially transitioned to execution mode as all dredging contracts have been awarded and Notices to Proceed have been issued.

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 commenced on July 15 and is expected to complete towards **the middle of October**.
- b. **San Joaquin River (Port of Stockton)** – A dredging contract was awarded to Ross Island Sand & Gravel on June 10. Notice to Proceed was issued on June 16. **Dredging commenced on September 15 and is expected to complete by the end of November**.
- c. **Sacramento River Deep Water Ship Channel** – A dredging contract was awarded to The Dutra Group on June 21. Notice to Proceed was issued on June 28. **However, the contractor submitted a proposal to change from cutterhead/pipeline dredging to a clamshell operation with beneficial reuse. Consultation with resource agencies underway. Concurrence expected in the next few days, after which dredging can commence**.
- d. **Suisun Bay Channel (and New York Slough)** – A dredging contract was awarded to Camenzind Dutra JV on June 24. Notice to Proceed was issued on June 30. **Dredging commenced on August 9 and was completed on September 18**.
- e. **San Rafael Creek** – A dredging contract was awarded to Camenzind Dutra JV on July 7. Notice to Proceed was issued on July 13. **Dredging commenced on September 22 and is expected to complete by the end of November**.
- f. **Oakland Harbor** – A dredging contract was awarded to Manson Construction on July 14, Notice to Proceed issued on July 19. **Dredging commenced on July 30 and is expected to complete by mid-December**. 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** – A dredging contract was awarded to Pacific Dredge on July 22 with Notice to Proceed issued on August 1. **Dredging commenced on September 26 and is expected to complete by mid-November**.
- 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 June 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 September was 12.5 tons. Dillard: 5.5 tons; Raccoon: 7 tons. Average debris removal for September from 2012 to 2021 is 38 tons (Range: 8.5-71.5).

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	1	7.5	0	8.5
AUG	2	26.5	0	28.5
SEP	7	5.5	0	12.5
OCT				
NOV				
DEC				

YR TOTAL
517

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 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 including a gap analysis to address the key issues as identified by the stakeholders from the virtual charrettes held in July 2020. SFEI was contracted to perform this phase and coordinated with an Interagency Working Group (IWG) to provide expert advice. **SFEI finalized a scope of work encompassing the modeling and monitoring required to resolve the data gaps. The SFEI scope along with SPN PDT scopes of service will be appended to the PMP concluding Phase 1.** 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 September 23, 2022.

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 August 8-9, 2022.

Northship Channel: Condition survey of September 20, 21, & 28, 2021.
Oakland Inner Harbor: Condition survey of July 20, 2022.
Oakland Inner Harbor (Brooklyn Basin): Condition survey of 15-20 January 2021.
Oakland Outer Harbor: Condition survey of July 20, 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 July 21, 2022.
Redwood City Harbor: Condition survey of October 5, 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 July 12, 2022.
Richmond Outer Harbor (Southampton Shoal): Post Dredge survey of July 12, 2022.
Sacramento River Deep Water Ship Channel: Condition Survey of July 6-7, 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 June 27-29, and July 8, 2022.
Suisun Bay Channel: Condition survey of August 18, &31, September 1-3, 14, & 19, 2022.
Suisun Bay Channel (Bullshead Reach): Condition survey of August 18, &31, September 1-3, 14, & 19, 2022.
Suisun Bay Channel (New York Slough): Condition survey of September 16 & 19, 2022.

Disposal Site Condition Surveys:

SF-08 (Main Ship Channel Disposal Site): Condition survey of May 24, 2022.
SF-09 (Carquinez): Condition survey of July 27, 2022.
SF-10 (San Pablo Bay): Condition survey of July 28, 2022.
SF-11 (Alcatraz Island): Condition survey of September 21, 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 OCT 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
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 (A)			■	◆	■	▨	▨	■				375kcy 375kcy	Contract Clam Shell	SF-11 Upland	
Napa River	11-Jul (A)	22-Jul (A)			■	◆	■	▨	■					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								■	■				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	WCH West Coast Hopper Contract	
	Bid Opening	YAQ Gov't Dredge Yaquina	
	Contract Award	ESS Gov't Dredge Essayons	
	Hopper Dredging		

* 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 SAN FRANCISCO BAY 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)				
Oakland Harbor		544						
Oakland Inner Harbor	09-21-2022	1997	4.62	50	46.2	50.1	50.0	48.8
Oakland Harbor		296						
Oakland Outer Channel	09-21-2022	1761	2.52	50	50.0	50.0	50.0	50.0
Brooklyn Basin		147						
Brooklyn Basin	01-15-2021	1501	0.94	35	6.2	8.0	17.3	7.2
Brooklyn Basin		250						
Brooklyn Basin	01-15-2021	1010	2.74	35	8.4	3.9	3.0	3.0
Mare Island Strait Causeway to Asylum Slough		75				No Data	No Data	
	08-09-2022	245	3.19	15	3.8			7.1
Napa River		102						
Asylum Slough to Napa City	08-09-2022	183	9.92	10	2.8	2.2	1.2	1.3
Petaluma River		100						
Main Channel	03-29-2022	361	4.06	8	4.2	7.3	5.2	1.6
Petaluma River ATF		200						
Across the Flats	12-15-2020	206	5.68	8	6.3	8.8	8.3	8.2
Pinole Shoal Channel		600						
Pinole Shoal Channel	07-21-2022	1644	10.40	35	29.9	35.8	35.7	32.5
Redwood City Harbor		300						
Redwood City Harbor	10-05-2022	943	3.94	30	24.7	27.4	26.2	23.9
Richmond Inner Harbor		809						
Entrance Channel	06-08-2022	1021	0.96	38	35.1	36.0	36.4	35.8
Richmond Inner Harbor		809						
Approach Channel	06-08-2022	1201	3.09	38	33.6	34.9	35.7	34.3
Richmond Inner Harbor		195						
Santa Fe Channel	02-26-2019	509	0.37	38	33.7	35.4	36.4	36.0
Richmond Outer Harbor		600						
Richmond Outer Harbor	07-12-2022	1291	3.25	45	41.1	44.8	44.3	42.6
Richmond Outer Harbor		2188				No Data	No Data	No Data
Longwharf Turning Basin	07-12-2022	5598	0.88	45	32.8			
San Bruno Shoal		500						
San Bruno Shoal	10-28-2021	500	5.66	30	28.7	30.2	31.1	29.5

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RIVER/HARBOR NAME AND STATE SAN FRANCISCO BAY 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
San Rafael ATF Across the Flats	06-24-2022	100	2.25	8	No Data	3.1	2.9	2.5
San Rafael River Inner Canal Channel	06-24-2022	60 160	1.55	6	0.9	1.1	0.5	0.5
Suisun Bay Channel Suisun Bay (0+00 to 150+00)	08-09-2022	300	2.84	35	37.1	37.1	37.0	35.7
Suisun Bay Channel Suisun Bay (150+00 to 733+45)	08-09-2022	300	11.10	35	35.0	35.0	35.0	34.8
Suisun Bay Channel Anchorage Suisun Bay Channel Anchorage	07-13-2022	400	0.90	35	34.5	No Data	No Data	No Data
New York Slough New York Slough (0+00 to 232+03)	09-16-2022	400 411	4.42	35	35.3	35.1	35.8	35.3
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	09-23-2022	500 1424	1.71	40	30.8	37.8	37.7	23.8
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	05-26-2022	100 142	1.36	15	6.0	4.0	3.9	3.9
Bodega Bay Bodega Bay	09-29-2022	100 400	3.46	12	3.1	9.5	9.7	7.1
Moss Landing Moss Landing	03-31-2021	120 405	0.98	6	13.2	12.3	11.1	10.9