

SAN FRANCISCO DISTRICT

LTC JOHN D. CUNNINGHAM
DISTRICT COMMANDER/ENGINEER



US Army Corps
of Engineers®



USACE ORGANIZATION



- DoD - A Major Command in the Department of the Army – over 34,000 employees
- 3-Star General Officer Command headquartered in Washington, DC
- ASA(CW) provides Civil Works direction
- 9 Divisions and 43 Districts World-wide
- Geographic areas based on watershed boundaries
- 12,000 miles of inland waterways
- 926 harbors; >700 dams



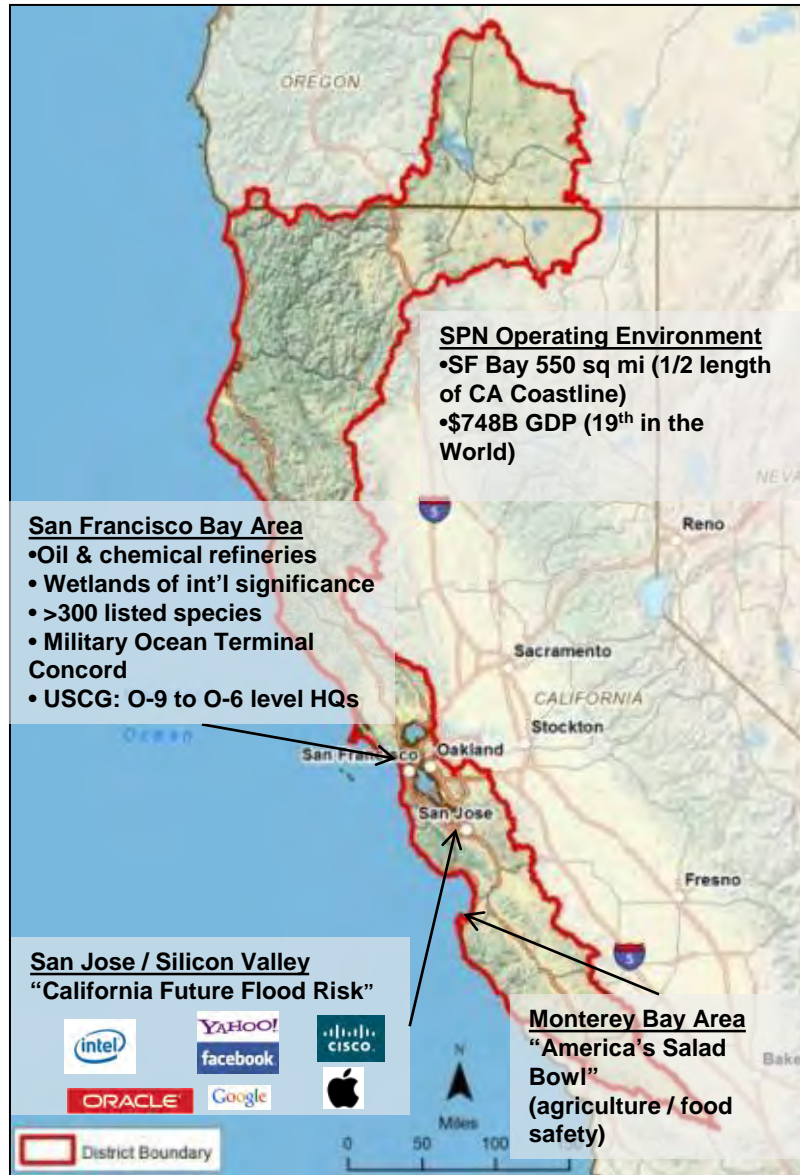


SPN OPERATING ENVIRONMENT



Oldest USACE district on the Pacific Coast

Providing Value to the Nation since 1866!



- **Political:** Large and Influential Congressional delegation (21 Districts); 4 Senators
- **Economic:** Navigation energizes the economy – we support 22 Federal ship channels, SF Bay Area’s \$75B+ annual maritime industry; debris removal (>1200 tons/yr) mission in SF Bay.
- **Navigation:** dredging and debris removal along 22 Federal ship channels
- **Reducing disaster risk for 6.5 million people and economies of SF Bay Area, Silicon Valley, Sonoma, Napa, and Central Coast:** 99% chance of big earthquake in next 30 yrs (per USGS); additional risks of flooding, sea level change, tsunamis, and wildfires
- **Largest wetlands restoration projects in California:** leading effort to beneficially reuse dredged material. South San Francisco Bay Shoreline construction project is the largest wetlands restoration project this side of the Mississippi.
- **District “owns” and is recovering the last viable population of an endangered species:** Coho salmon on Russian River (per 2008 NOAA-NMFS Biological Opinion); in 2012, recognized by NOAA as a “Habitat Blueprint for Success”
- **Regulatory Actions:** for Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act. Annually issue 350 nationwide, 200 Regional General Permits, 18 Standard permits, and 30 Letters of Permission.



DELIVER INTEGRATED WATER SOLUTIONS



- Navigation - dredging and debris removal along 22 Federal ship channels
- Flood Risk Reduction
- Environmental Restoration
- Outdoor Recreation
- Regulatory
- Civil Works Projects: >\$125 M
- Continuing Authorities Program



[Far Left] Aerial view of the Hamilton Army Airfield Wetlands Restoration Project.
[Left] Berryessa Creek Flood Risk Reduction Project.
[Top Right] Dredged material off-loader for Hamilton Wetlands Restoration Project.
[Above] Dry Creek Restoration Project near Healdsburg.

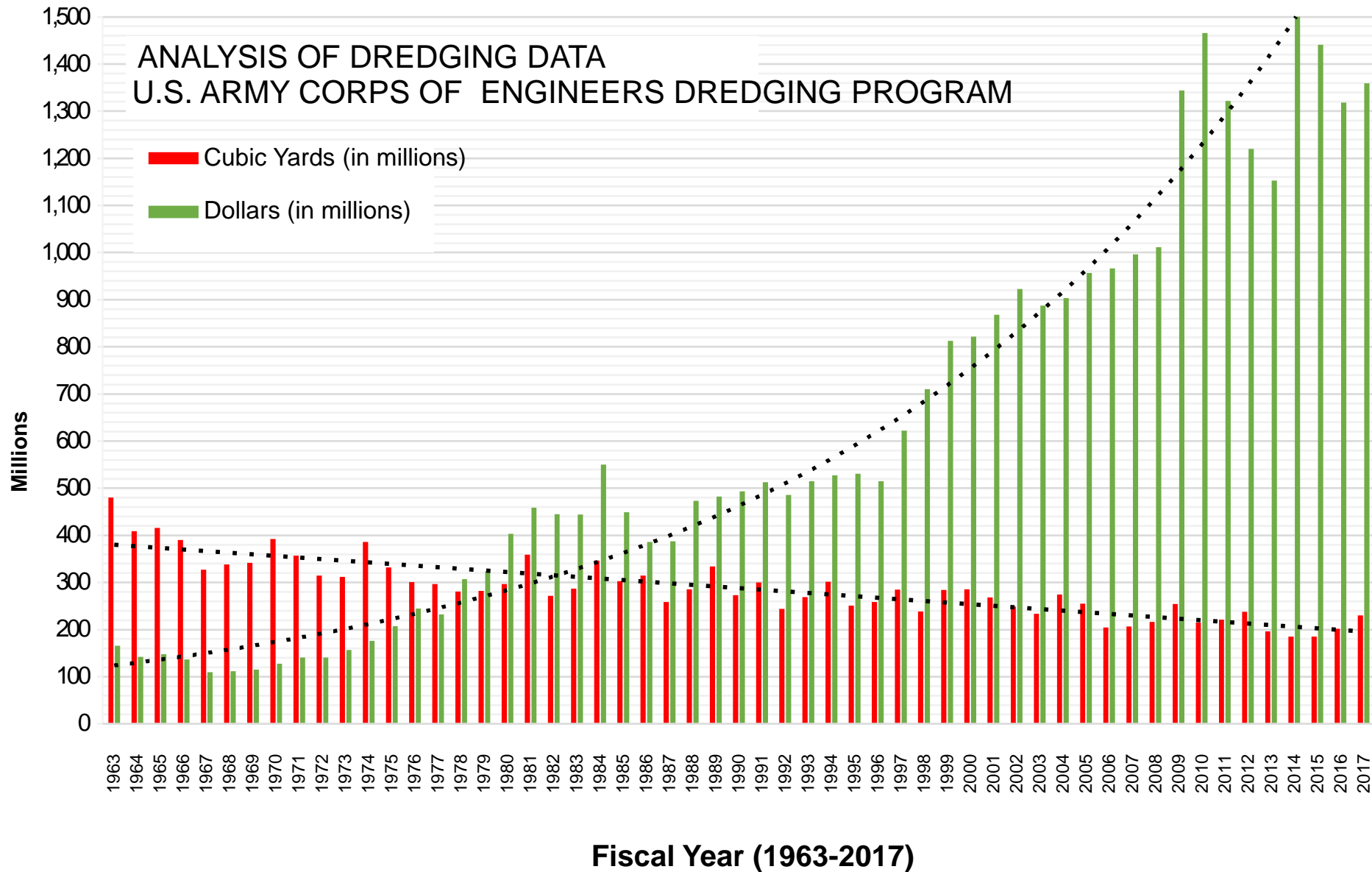


SAN FRANCISCO DISTRICT – DREDGING MISSION





NATIONAL DREDGING DATA





O&M DREDGING PLAN FOR FY19*

Projects	Bid Opening Award Date	FY 2020												Estimated CY	Bid	Dredge Type	Placement Site	Notes	
		APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB							
Redwood City Harbor	22 May/17 Jun		◆	◆	Baseline								616kcy	\$7.6M	Clam Shell	SF-11	Increased volumes will exhaust available funds prior meeting Full Authorized Depth		
Richmond Inner Harbor	29 Apr/14 May	◆	◆	Baseline								300kcy	\$3.9M	Clam Shell	DODS/upland least cost	Increased volumes may exhaust available funds prior meeting Full Authorized Depth			
Combined Sac/San Joaquin	10 Jun/27 Jun			◆	◆	Baseline			Baseline			350kcy	\$8.7M	Pipeline	Various Upland	Water cert MOA issues, slipped schedule			
Oakland Harbor	8 May/26 June		◆	Baseline			Baseline					750kcy	\$16.7M	Clam Shell	DODS/upland	Contract Mod for increase upland Delivery is being assessed			
Suisun Bay Channel	28 Jun/17 Jul			◆	◆	Baseline			Baseline			132kcy	\$4.6M	Clam Shell	SF-16	Expected in water start has moved to the right but is still in Window			
Crescent City	19 Jun /1 Jul			◆	◆	Baseline			Baseline			100kcy	\$2.9M	Clam Shell/ PipeLine	Whaler/ HOODS	Contractor has asked for 30 Oct			
Hopper																			
SF Main Ship Channel	N/A				■				■				350kcy	Gov Plant	Essayons	OBDS/ SF-8	Essayons completed 13 days, with expected remobilization for 5-7 days in Oct		
San Pablo Bay/Mare Island Straight	N/A					■						200kcy	Gov Plant	Essayons	SF-11/SF-10	Essayons completed 8 days			
Humboldt Bar & Entrance	N/A		■	■								1200kcy	Gov Plant	Yaquina/ WCH	HOODS	Yaquina work started early and WCH contract on schedule			
Richmond Outer Harbor	N/A																Deferred to FY20		
New SPN Contract including Mobilization Baseline West Coast Hopper Contract Government Dredge		Environmental Window Environmental Window Change Bid Opening Contract Award		Environmental Window Environmental Window Change Bid Opening Contract Award															

* Program execution is based on the FY19 President's Budget, Workplan and Federal Standard plan for each project. Date of Update: 9/9/2019



Initial O&M DREDGING PLAN FOR FY20*

	Mar	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	Estimated CY	Dredge Type	Placement Site																																																						
<u>Projects</u>	FY 2020																																																																				
Oakland Harbor		♦	♦	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline				750kcy	Clam Shell	DODS/upland least cost																																																						
Richmond Inner Harbor		♦	♦	Baseline	Baseline	Baseline	Baseline						150kcy	Clam Shell	DODS/upland least cost																																																						
Sac/San Joaquin				♦	♦	Baseline	Baseline	Baseline	Baseline				250kcy	Pipeline	Various Upland																																																						
Suisun Bay Channel				♦	♦	Baseline	Baseline						130kcy	Clam Shell	SF-16																																																						
Moss Landing O&M				♦	♦	Funded for P&S	Funded for P&S						90kcy	Hopper/Clam Shell w/Pipe	SF-14, Beach Site																																																						
Noyo O&M					♦	♦	Funded for P&S	Funded for P&S					40kcy	Pipeline	Upland Disposal Site																																																						
Petaluma O&M						♦	♦	Funded for P&S	Funded for P&S				250kcy	Clam Shell/Pipeline	Upland, SF-10, Ben. Reuse																																																						
Hopper																																																																					
SF Main Ship Channel				Baseline											OBDS/ SF-8																																																						
Richmond Outer Harbor				Baseline																																																																	
Humboldt Bar & Entrance				Baseline											HOODS																																																						
<table style="width: 100%; border: none;"> <tr> <td style="width: 20%;"></td> <td>Mobilization</td> <td style="width: 30%;"></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td></td> <td>New SPN Contract including Mobilization</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Baseline</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>West Coast Hopper Contract</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Government Dredge</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Funded for P&S only</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">Environmental Window</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">Bid Opening</td> <td></td> <td></td> <td></td> <td style="text-align: center;">♦</td> </tr> <tr> <td></td> <td style="text-align: center;">Contract Award</td> <td></td> <td></td> <td></td> <td style="text-align: center;">♦</td> </tr> </table>																	Mobilization						New SPN Contract including Mobilization						Baseline						West Coast Hopper Contract						Government Dredge						Funded for P&S only						Environmental Window						Bid Opening				♦		Contract Award				♦
	Mobilization																																																																				
	New SPN Contract including Mobilization																																																																				
	Baseline																																																																				
	West Coast Hopper Contract																																																																				
	Government Dredge																																																																				
	Funded for P&S only																																																																				
	Environmental Window																																																																				
	Bid Opening				♦																																																																
	Contract Award				♦																																																																

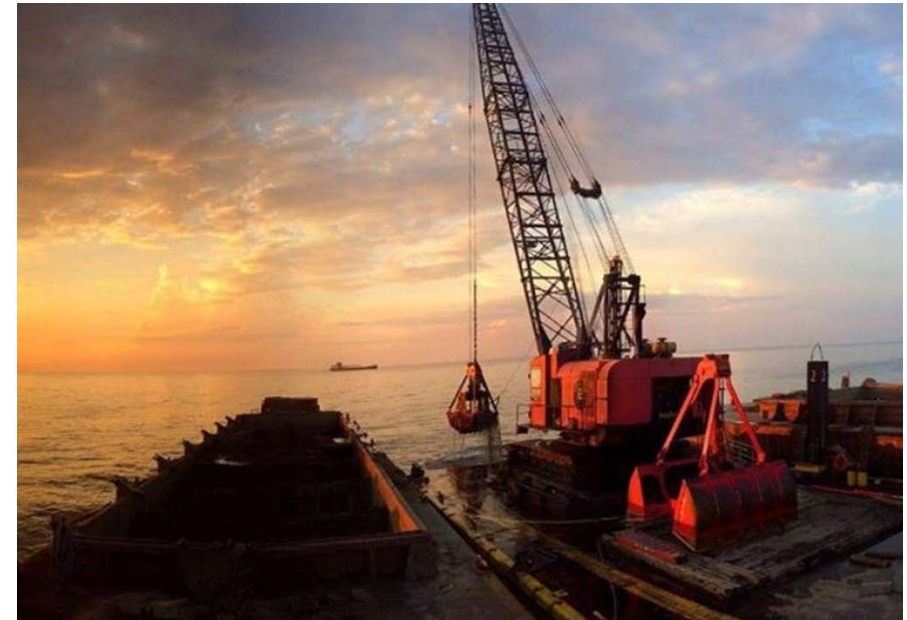
* Program execution is based on the FY20 President's Budget and Federal Standard plan for each project. Date of Update: 9/26/2019



RDMMP OVERVIEW



- The Corps mission, to maintain safe and efficient navigation in the Bay, has been complicated over the past decade by rising costs and a flat Operations and Maintenance budget.
- Engineering Regulation 1105-2-100 requires a long-term plan for placing dredge material called a Dredge Material Management Plan (DMMP).
- DMMPs:
 1. Validate continued Federal investment.
 2. Evaluate future capacity of existing sites.
 3. Establish the ***Federal standard*** or base plan.

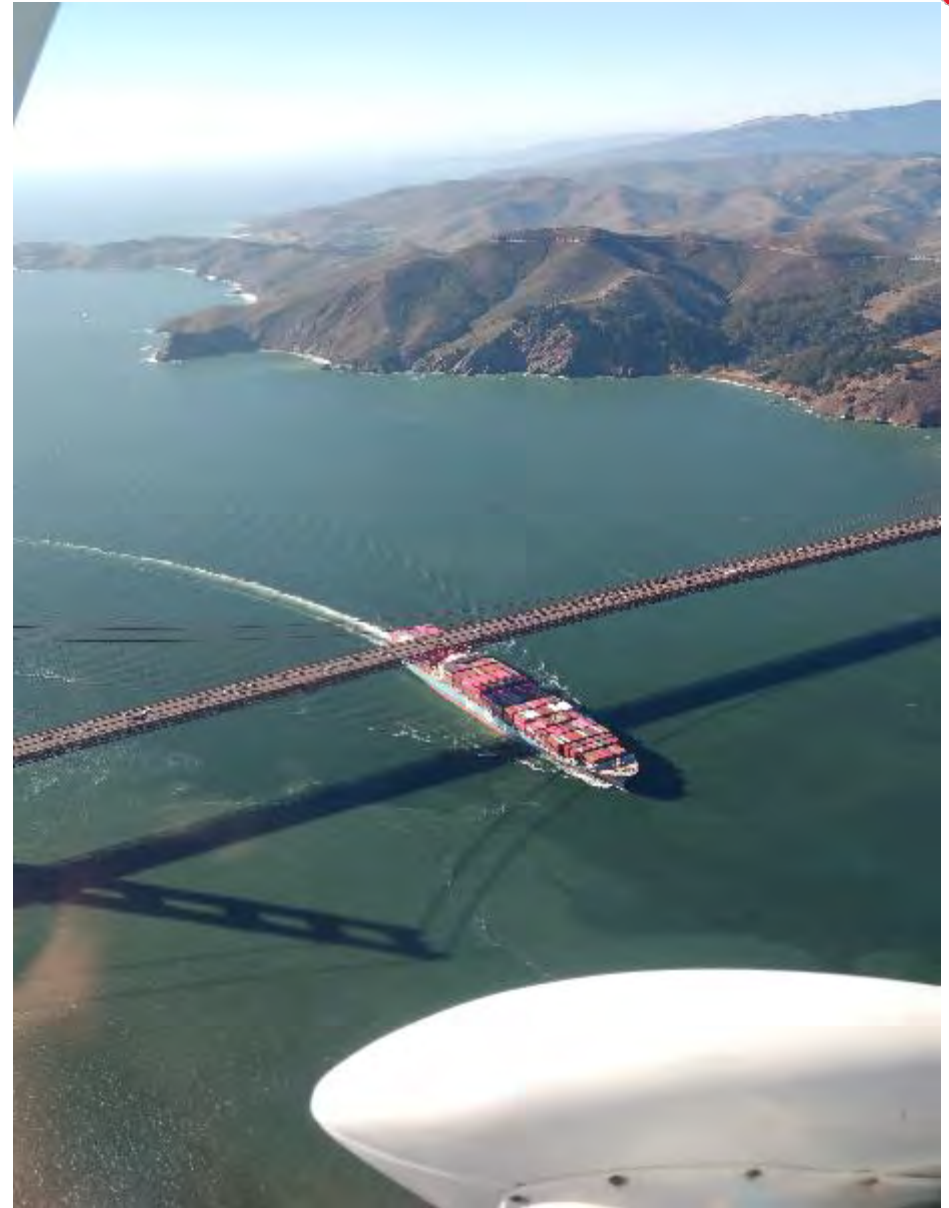




WHAT DO WE WANT FROM YOU?



- Actively engage.
- Comment on the draft Project Management Plan (PMP).
- Find it at:
<https://www.spn.usace.army.mil/Missions/Projects-and-Programs/Regional-Dredge-Material-Management-Plan>
- Email your comments to: CESPN-RDMMP@usace.army.mil





CONTACT ME



District Commander/District Engineer

LTC John Cunningham

415-503-6700

john.d.cunningham@usace.army.mil



ARMY CORPS NAVIGATION BUSINESS LINE



→ MISSION

- To provide safe, reliable, efficient, and environmentally sustainable waterborne transportation systems for movement of commerce, national security needs, and recreation.

→ Program Objectives

- Maintain inland waterways and coastal channels, with emphasis on those with a high or moderate level of commercial use; and
- Support investment that would provide a high return to the Nation.

→ SPN Navigation Program

- Averages 14 projects and \$75 million per year



FY20 MISSION

Dredging Project	Value	ADV
Humboldt Harbor And Bay	\$1-5M	Q3
Oakland Harbor	\$10-25M	Q3
Richmond Harbor	\$5-10M	Q2
Sacramento River (30 Foot Project)	\$1-5M	Q3
San Joaquin River, Port Of Stockton	\$1-5M	Q3
Suisun Bay Channel	\$1-5M	Q3

- + Majority of our projects are smaller dredging efforts
- + Small Business set asides are required
- + IFB procurements
- + Firm fixed price contracts
- + Improvements in our delivery and products



LONG TERM MANAGEMENT STRATEGY (LTMS)



-Long Term Management Strategy for the Placement of Dredged Material in the San Francisco Bay Region

- Cooperative effort; based on existing law and policy of LTMS agencies

-Provides strategy for dredging and disposal of dredged material over a 50-year period starting in 2000

-LTMS Executive Committee, LTMS Management Committee, LTMS Program Manager Team

-LTMS Goals

- Reduce in-bay disposal, Increase beneficial reuse and disposal at SF DODS
 - 20% In-bay / 40% Beneficial / 40% DODS
 - 12-year step down from 2000-2012 to achieve 1 million CY in-bay (with 250,000 CY contingency) per year (based on three year average)



REGIONAL DMMP

12 Federal Navigation Projects

Deep Draft

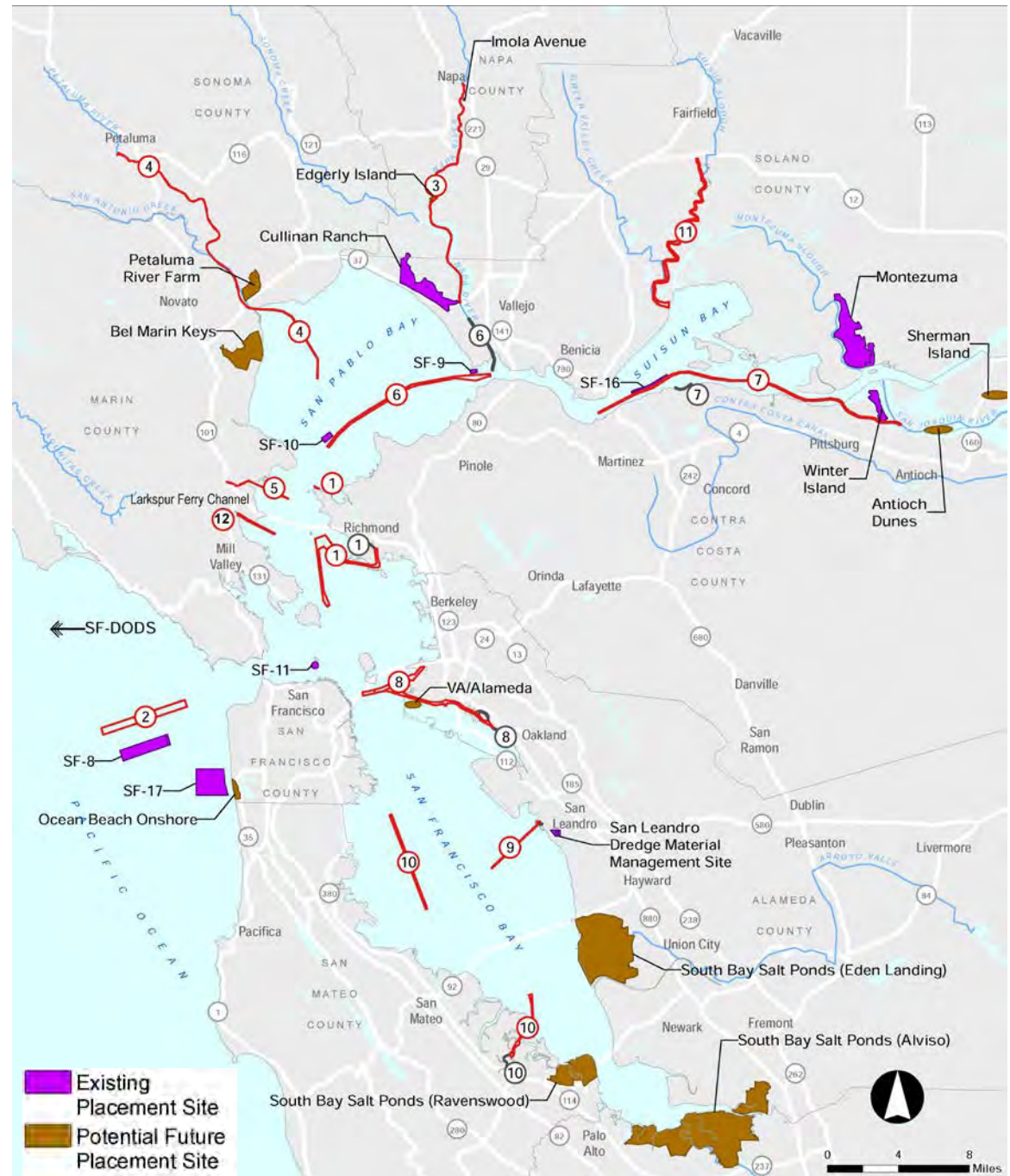
1. Richmond Harbor
2. SF Harbor
6. San Pablo Bay & Mare Island Strait
7. Suisun Bay Channel
8. Oakland Harbor
10. Redwood City Harbor

Shallow Draft

3. Napa River
4. Petaluma River
5. San Rafael Creek
9. Jack Maltester Channel
11. Suisun Slough
12. Larkspur Ferry Channel

7 Placement Sites

- SF-8 San Francisco Bar
- SF-9 Carquinez Strait
- SF-10 San Pablo Bay
- SF-11 Alcatraz
- SF-16 Suisun Bay
- SF-17 Ocean Beach Nearshore Placement & Demonstration Site
- SF-DODS San Francisco Deep Ocean Disposal





SHORELINE REACHES 1, 2, 3



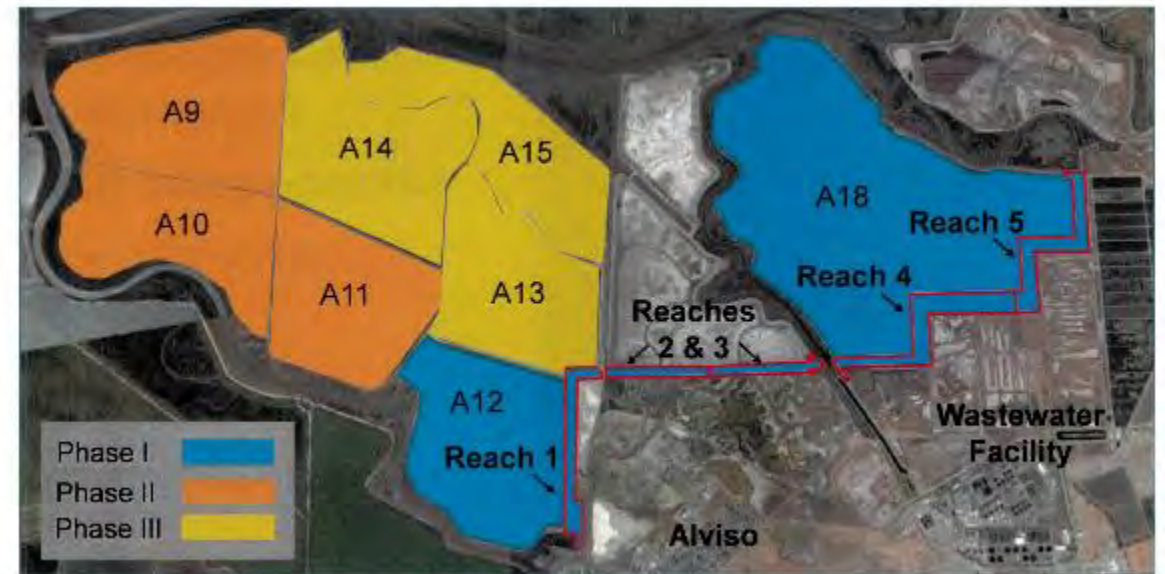
- Multi-purpose Flood Risk Management, Ecosystem Restoration, and Recreation Project
 - Manages risk for 5,500 residents and 1,100 structures
 - Restores 2,900 acres of formerly-used salt ponds to tidal wetlands
 - Provides key connections to the iconic San Francisco Bay Trail
- Levee construction contract is the first construction contract we expect to award for this project
 - Scheduled for January 2020



Phase I
(2018-2022)

Phase II
(2027)

Phase III
(2032)



FOR INFORMATIONAL PURPOSES ONLY
ALL INFORMATION SUBJECT TO CHANGE
ACTUAL NOTICES AND SOLICITATIONS WILL BE POSTED TO FBO: www.fbo.gov



HAMILTON WETLAND RESTORATION (*CONSTRUCTED – IN ADAPTIVE MGMT.*)



During the filling process the former runway can be seen along with the dredge material placement control structures.

Due to significant subsidence, 5.8 Million Cubic Yards of dredge material were used to create the elevations needed to restore a 648 acre parcel to tidal and seasonal wetlands.

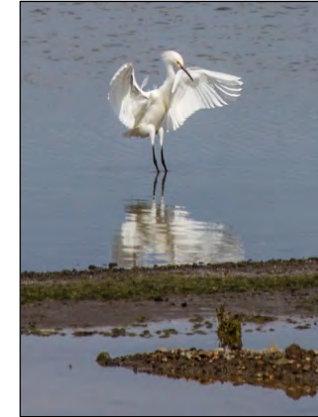




HAMILTON WETLAND RESTORATION



Dredge material was hydraulically placed to fill the site.



More than 100 years after the original reclamation of these lands took place, the levee was breached and Bay waters were allowed to flow once again.

