

Cost, Logistical and Funding Considerations for Upland Disposal of Dredged » Material in SF Bay

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Outline

1. Recent History of the two largest Federal O&M projects (Oakland & Richmond)
2. The Logistics of Mobilizing an Unloader to the Bay Area (Time & Money)
3. Dredge Pricing Considerations
4. Dredge Funding Considerations
5. Suggestions for the Region







Post Hamilton History of Oakland and Richmond Inner O&M

	Oakland O&M				Richmond Inner O&M			
YR	YDS	Mil \$	\$/cy	Bid	YDS	Mil \$	\$/cy	Bid
10'	600k / 1.3m	\$12.7	\$20.44	<u>Ham</u> vs. Dods	600k	\$14.5	\$22.79	<u>Ham/11</u> vs. Dods/11
11'	840k / 1.2m	\$21.2	\$17.12	<u>Dods</u> vs. Upl-11	600k	\$11.1	\$18.39	SBA-Dods
12'	925k	\$17.5	\$18.93	<u>Dods</u> vs. Upl-11	320k	\$8.6	\$27.05	SBA-Dods vs. Upl
13'	460k	\$11.3	\$24.54	Upl/Dods/11				
14'	158k	\$4.5	\$28.70	Upl	268k	\$7.8	\$29.02	SBA-Dods vs. Upl
14'	316k	\$10.0	\$31.61	Upl				

Since Hamilton, In alternate bid schedules, Dods low every time, even with up to 38% SF-11 in upland bid alternate. Hamilton unloading was funded separately

Logistics of Unloader Mobilization Time & Money

Unloader Size	Investment	Lead Time	Production Capacity cy/hr
Small	\$3-\$6 mil	12 mo	500 cy/hr
Medium	\$5-15 mil	14 mo	1,500 cy/hr
Large	\$10-20 mil	18 mo	4,000cy/hr

Unload Time Impacts Dredge System Throughput

Dredge Pricing Considerations

Capital Cost
Recovery + Daily
Operating Cost



- Daily Cost Divided By

System
Throughput

- Average
Production

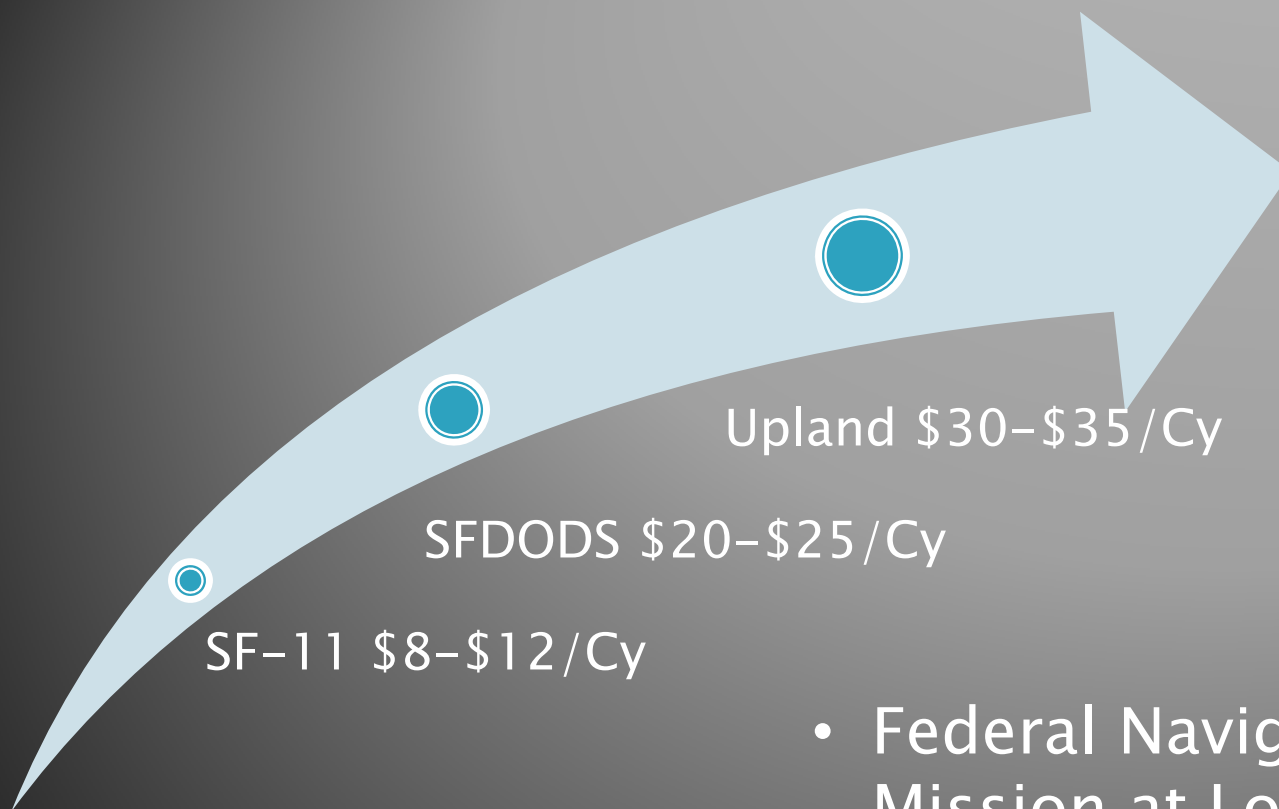


Unit Cost

• = \$/Cy

Capital Cost
Recovery—
How many
projects,
years, cubic
yards?

Federal O&M Funding Considerations



- Federal Navigation Mission at Lowest Cost = Max SF11 with Balance to SFDODS
- No Upland

Suggestions for the Region

1. Come to Resolution on Disposal of Federal O&M Material Upland at Increased Cost vs. Ocean
2. Commit to a Long Term Disposal Scheme for Federal O&M, providing equipment requirement certainty
3. Bundle Work to Maximize Volume per Mobilization
4. Stop Fracturing the Already Small West Coast Dredging Market with Small Business Set-asides and paying 20%–30% premium with limited funding.

Ex. Redwood City Low Bid \$12.3 mil, Manson quote \$8.2
Richmond Results Similar +/- 20% SBA premium