

Dredging and Wetlands Restoration:  
Who Pays for Beneficial Reuse?

# Wetland Reuse



**OR**



**A decree from above does not  
affect either physical or financial  
reality**

# Overview of Port of San Francisco Finances: Deferred Maintenance

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- **Estimated \$1 Billion for Pier Infrastructure**
- **Plus Onshore Seawall, Liquefaction Potential,  
Sealevel Rise: Another \$1 Billion???**

# Overview of Port of San Francisco Finances: Capital Spending

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- **Total Annual Budget: +/- \$60 million**
- **Annual Capital Budget: +/- \$10 million**
- **Annual Dredging Budget: \$4 million + \$1M  
(was \$3M going to \$5+1M)**

# Overview of Port of San Francisco Finances: Maritime Revenue

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## **\$14.1M Gross Maritime Revenue**

- **Cargo: \$5.0M**
- **Cruise: \$2.3M**
- **Fishing: \$2.1M**
- **Ship Repair: \$1.3M**
- **Other: \$3.4M**

**Annual Dredging Budget: \$4+1 million = 35% of  
Maritime Revenue**

**Soon going to \$5+1M (43% of Maritime Revenue)**

# How Disposal Decisions Affect Budgets

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## Summary of Current Dredging Cost Structure

### Costs per cu yd, Dredging & Disposal

<u>Disposal Site</u>	<u>PoSf</u>	<u>PoOak</u>	<u>SF Parks</u>
<b>SF-11</b>	<b>\$10.55</b>	<b>\$11.00</b>	
<b>SF-DODS</b>	<b>\$21.55</b>	<b>\$19.00</b>	
<b>Montezuma Cover</b>	<b>\$23.00</b>	<b>\$26.40</b>	
<b>Montezuma Non-cover</b>	<b>\$51.00</b>		<b>\$55.67</b>
<b>Class III Landfill</b>	<b>\$43.75</b>		

# How Disposal Decisions Affect Budgets

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## Effects on a 200,000 cu yd per year program

<u>Disposal Option</u>	<u>Cost</u>
<b>100% SF-11</b>	<b>\$2,110,000</b>
<b>50/50: SF-11/SF-DODS</b>	<b>\$3,210,000</b>
<b>20/80: SF-11/SF-DODS</b>	<b>\$3,870,000</b>
<b>20/40/40: SF-11/SF-DODS/Monte-Cover Only</b>	<b>\$3,986,000</b>
<b>20/40/40: SF-11/SF-DODS/Monte-50%Cover:50%Non-Cover</b>	<b>\$5,106,000</b>

# How Disposal Decisions Affect Budgets

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**Baywide Effects: 3,000,000 cu yd per year program**

<b><u>Disposal Option</u></b>	<b><u>Cost</u></b>
<b>100% SF-11</b>	<b>\$31,650,000</b>
<b>50/50: SF-11/SF-DODS</b>	<b>\$48,150,000</b>
<b>20/80: SF-11/SF-DODS</b>	<b>\$58,050,000</b>
<b>20/40/40: SF-11/SF-DODS/Monte-Cover Only</b>	<b>\$59,790,000</b>
<b>20/40/40: SF-11/SF-DODS/Monte-50%Cover:50%Non-Cover</b>	<b>\$76,590,000</b>



## Cost of LTMS to Dredgers:

**Port:  $\Delta = \$3$  million/year**

**Baywide:  $\Delta = \$45$  million/year**



**OR**



2013 SPN San Francisco Bay O&M Dredging: Base Plan					
	Estimated Volume (cy)	Placement Site	Beneficial Use/Upland	In-Bay	Ocean
Oakland Harbor	800,000	SF-DODS	0	0	800,000
Richmond Inner Harbor	200,000	SF-DODS	0	0	200,000
Richmond Outer Harbor	300,000	SF-11	0	300,000	0
Pinole Shoal (San Pablo Bay)	150,000	SF-10	0	150,000	0
Suisun Bay and NY Slough	200,000	SF-16/SF-9	0	200,000	0
<b>Total</b>	<b>1,650,000</b>		-	<b>650,000</b>	<b>1,000,000</b>
<b>Percentage</b>			<b>0%</b>	<b>39%</b>	<b>61%</b>
SF Main Ship Channel	350,000	OBDS/SF-8			350,000

2013 SPN San Francisco Bay O&M Dredging: Alternative Plan					
	Estimated Volume (cy)	Placement Site	Beneficial Use/Upland	In-Bay	Ocean
Oakland Harbor	800,000	Combo	250,000	250,000	500,000
Richmond Inner Harbor	200,000		(minimum)	(maximum)	
Richmond Outer Harbor	300,000	SF-11	0	300,000	0
Pinole Shoal (San Pablo Bay)	150,000	SF-10	0	150,000	0
Suisun Bay and NY Slough	200,000	SF-16	0	200,000	0
<b>Total</b>	<b>1,650,000</b>		<b>250,000</b>	<b>900,000</b>	<b>500,000</b>
<b>Percentages</b>			<b>15%</b>	<b>55%</b>	<b>30%</b>
SF Main Ship Channel	350,000	OBDS/SF-8			350,000

updated: 5/30/13

