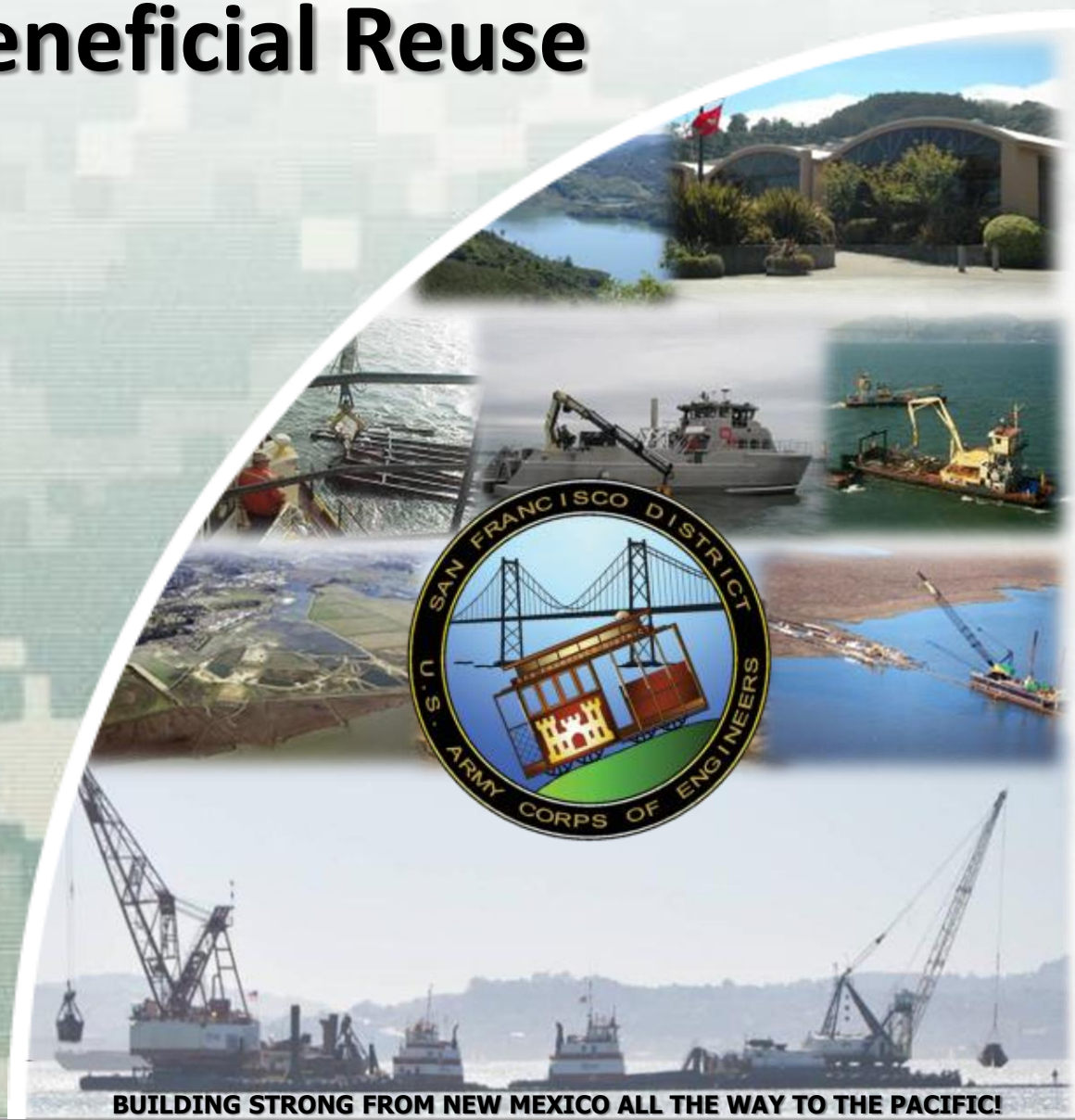
Challenges and Opportunities to Dredging and Beneficial Reuse

BPC Workshop
4 Nov 2014

Cynthia Jo Fowler

Environmental Manager
San Francisco District



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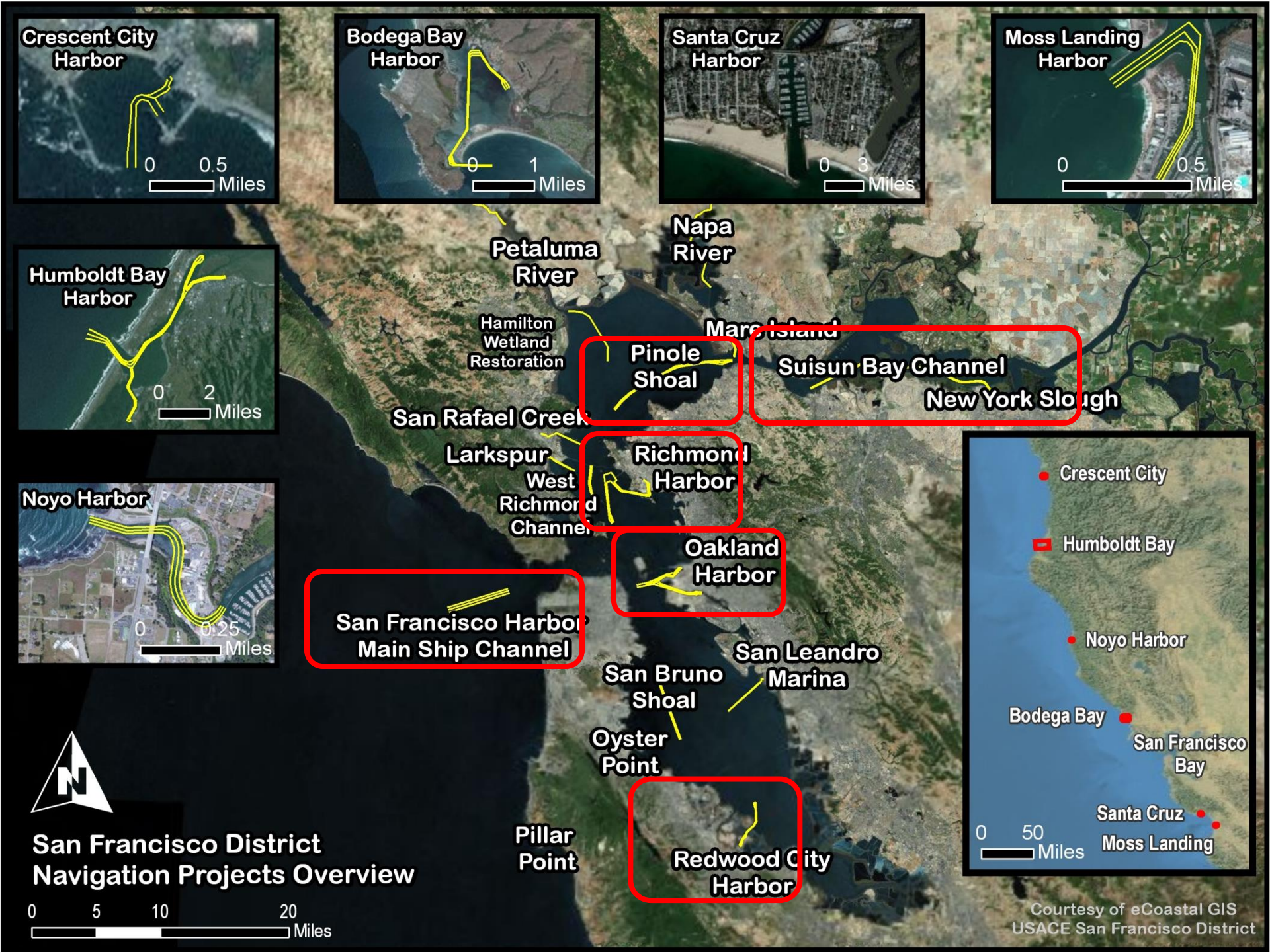
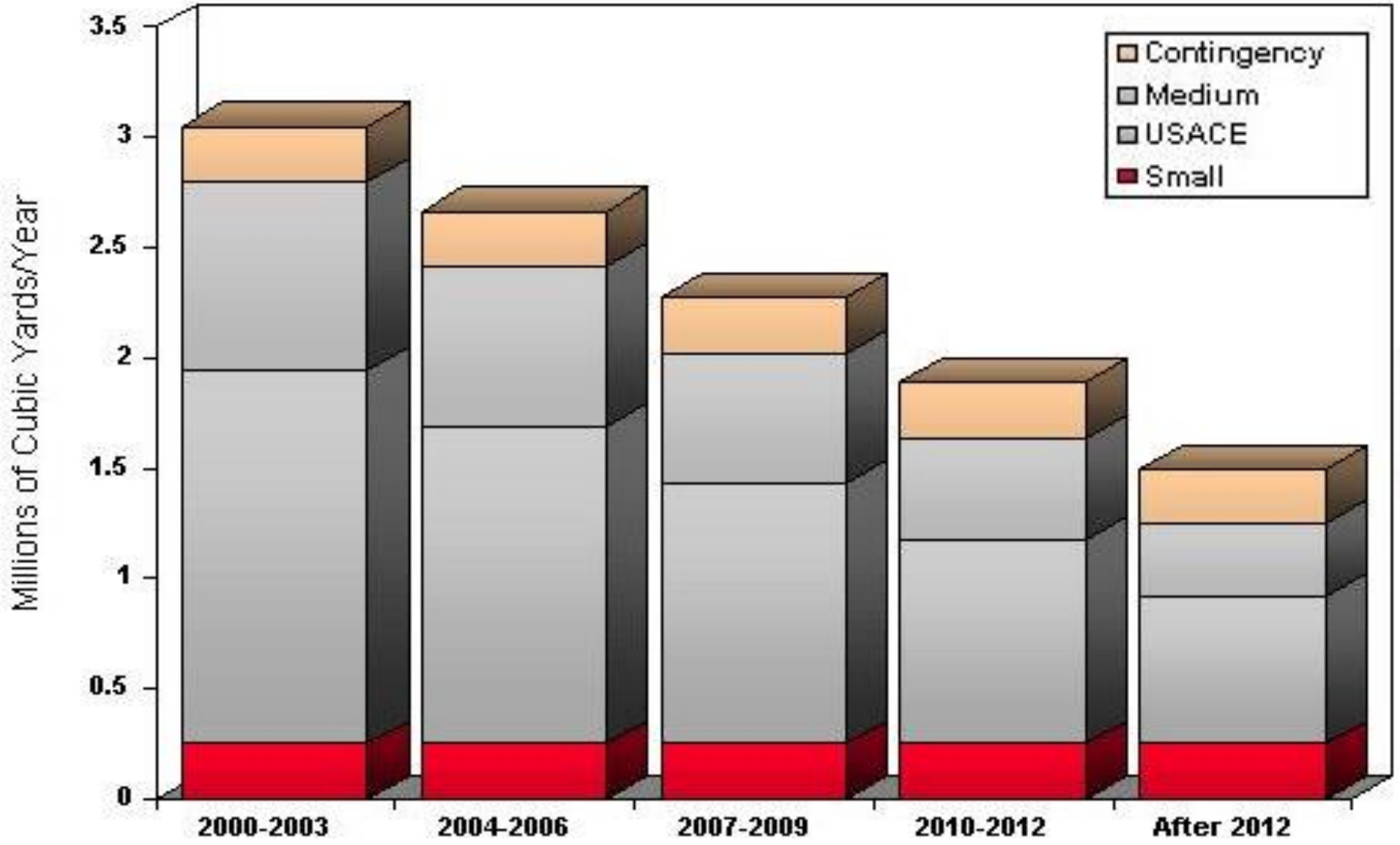
BUILDING STRONG FROM NEW MEXICO ALL THE WAY TO THE PACIFIC!

Navigation Mission

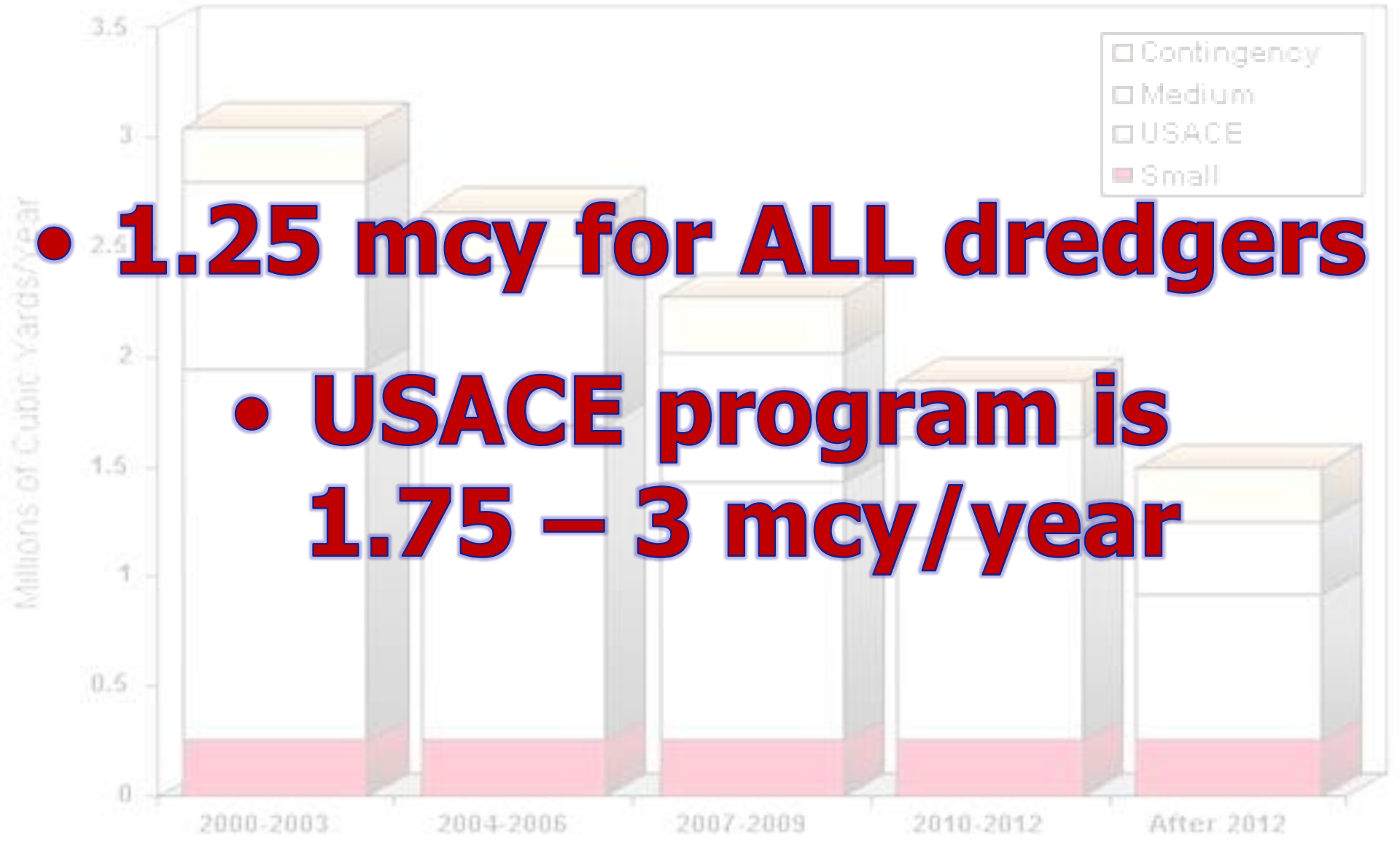
To provide safe, reliable, and efficient waterborne transportation systems (channels, harbors, and waterways) for the movement of commerce, national security needs and recreation.


Crescent City Harbor
0 0.5 Miles
Bodega Bay Harbor
0 1 Miles
Santa Cruz Harbor
0 3 Miles
Moss Landing Harbor
0 0.5 Miles
Humboldt Bay Harbor
0 2 Miles
Noyo Harbor
0 0.25 Miles
Petaluma River
Napa River
Hamilton Wetland Restoration
Mare Island
Pinole Shoal
Suisun Bay Channel
New York Slough
San Rafael Creek
Larkspur
West Richmond Channel
Richmond Harbor
Oakland Harbor
San Francisco Harbor Main Ship Channel
San Leandro Marina
San Bruno Shoal
Oyster Point
Pillar Point
Redwood City Harbor
Crescent City
Humboldt Bay
Noyo Harbor
Bodega Bay
San Francisco Bay
Santa Cruz
Moss Landing
0 50 Miles
San Francisco District
Navigation Projects Overview
0 5 10 20 Miles
Courtesy of eCoastal GIS
USACE San Francisco District

LTMS In-Bay Volume Limits



LTMS In-Bay Volume Limits



- **1.25 mcy for ALL dredgers**
  - **USACE program is 1.75 – 3 mcy/year**

Governing Laws & Regulations:
O&M Dredging

- *Federal standard:* least costly dredged material placement alternative(s) consistent with sound engineering and meeting environmental standards established in 404(b)(1) or ocean dumping criteria (33 CFR 335.7)
- *Base plan:* more accurate operational description of federal standard—it defines the disposal or placement costs assigned to the navigation purpose of the project—costs above this must be cost-shared according to the category of non-navigation benefit provided

Governing Laws & Regulations:

Spending more than the Federal Standard

- *Section 204:* Beneficial Uses of Dredged Material
  - Authority (from WRDA 1992) originally limited to projects for the protection, restoration, and creation of aquatic and ecologically related habitats
  - Cost must be justified (both monetary and non-monetary)
  - Cost-sharing requirements (above base plan)
- Continuing Authorities Program (CAP)
  - Small 204 projects (i.e., typ.~ $10 million) requiring no additional Congressional authorization to construct

Questions?

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