

DMMP Project Evaluation Activities

Dredging Year 2014

David Fox, P.E.
US Army Corps of Engineers
Seattle District



Dredging Year Actions

- DY 2014:
 - 16 June 2013 to 15 June 2014

- Decision Documents:
 - Suitability Determinations
 - Others:
 - Recency Extensions
 - Tier 1 Evaluations
 - Volume Revisions/Design Modifications
 - Antidegradation Determinations

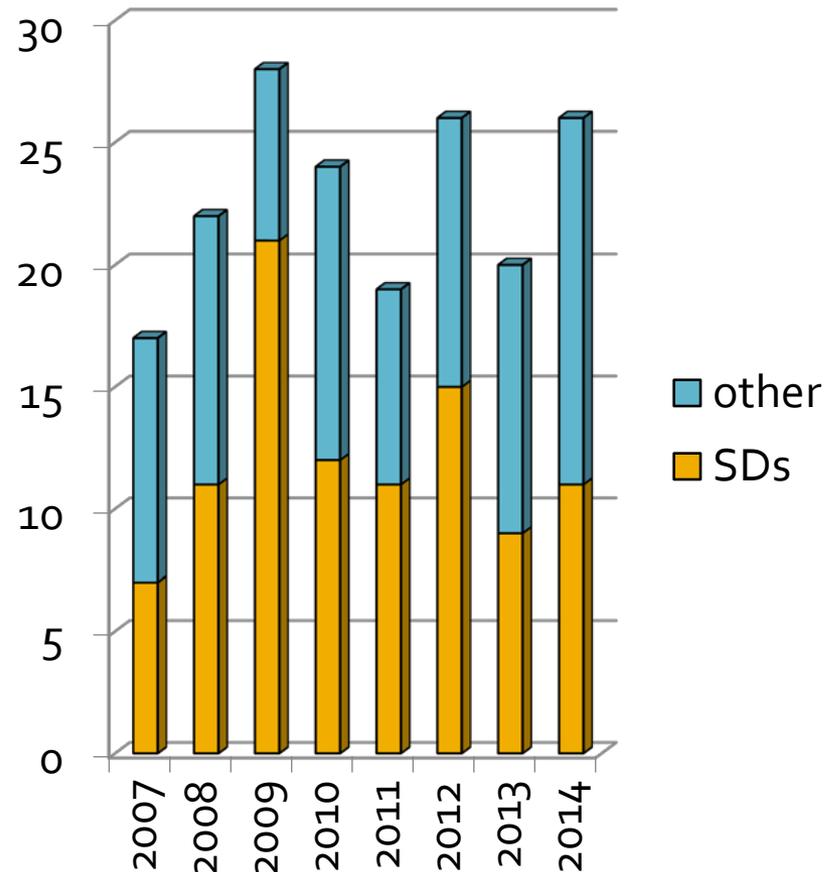


DY14 Completed Actions

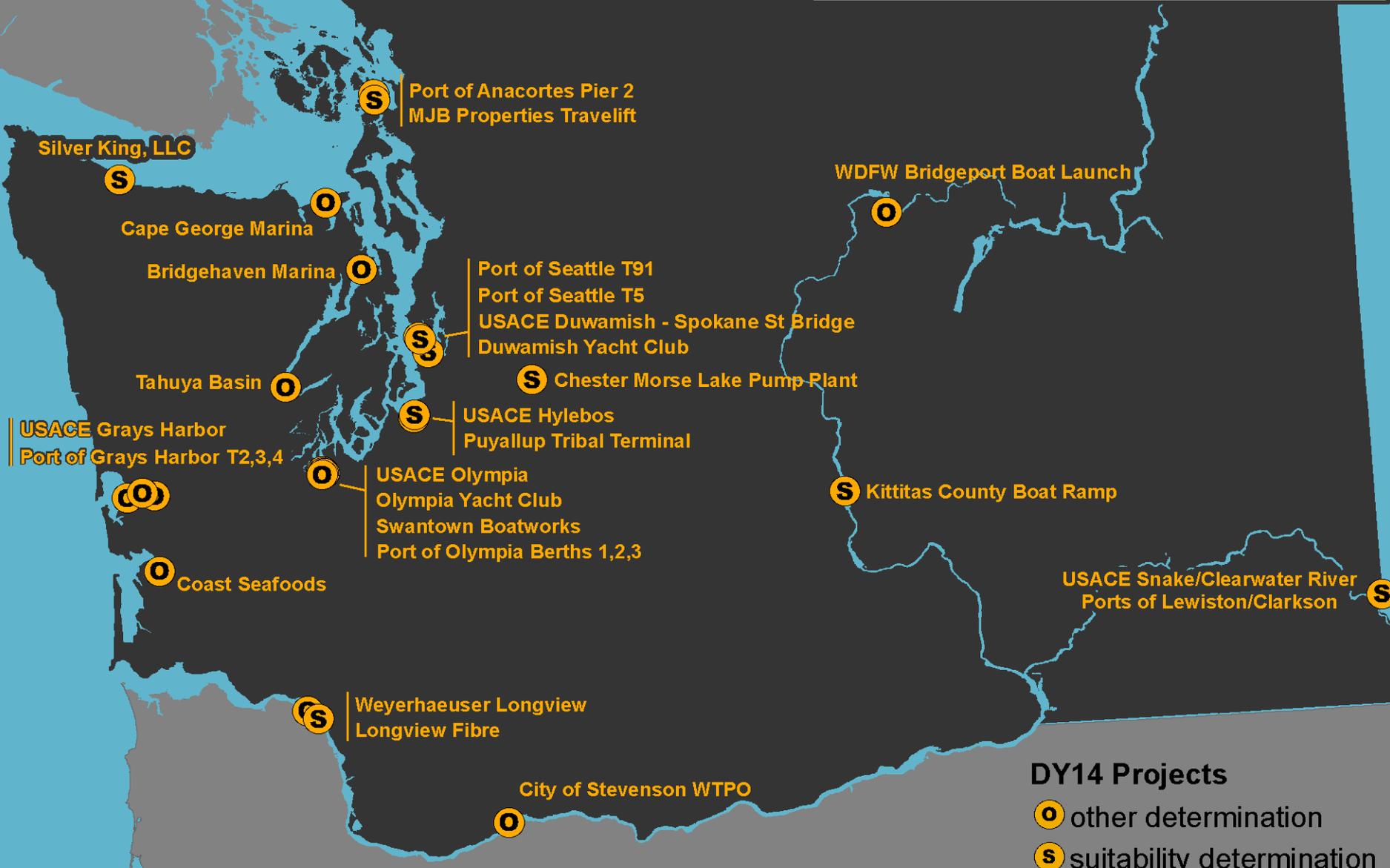
Suitability Determinations (11)

Others
(15):

- Volume Revision/Design Modification (2)
- Recency Extensions (4)
- Antidegradation (1)
- Tier 1/No Test (6)
- Dioxin Re-evaluation (2)



DY 2014 Project Locations



DY14 Projects
O other determination
S suitability determination

DY14 Testing

- Out of 26 completed actions:
 - 12 projects - chemical testing
 - 9 projects - dioxin testing
 - 2 projects - bioassays
 - *No* bioaccumulation testing
 - 6 projects – antidegradation testing



Projects with guideline exceedances (excluding dioxin)

Project	Chemicals
Duwamish Yacht Club	diethyl phthalate, butyl benzyl phthalate, total chlordanes
Kittitas County Boat Ramp	cadmium
Port of Seattle T5	TBT, PCBs, mercury
Port of Seattle T91	TBT, PCBs, PAHs, mercury
USACE Hylebos	TBT, PCBs; 2,4-dimethylphenol, hexachlorobenzene, hexachlorobutadiene, dieldrin
USACE Snake/Clearwater	phenol, 4-methylphenol



Dioxin Testing DY14

- 6 projects had failures based on dioxin or partially due to dioxin
 - Duwamish Yacht Club
 - MJB Properties Travelift – Anacortes
 - Port of Olympia Berths 1,2,3 (AD testing only)
 - Port of Seattle T5
 - Port of Seattle T91
 - USACE Hylebos
- 3 projects passed dioxin guidelines for all material (Longview Fibre, Silver King, Spokane St. Bridge)



Biological Testing DY14

- 2 projects tested:
 - Kittitas County Boat Ramp (cadmium)
 - USACE Snake/Clearwater River (phenol; 4-methylphenol)
- freshwater bioassays conducted
- no hits

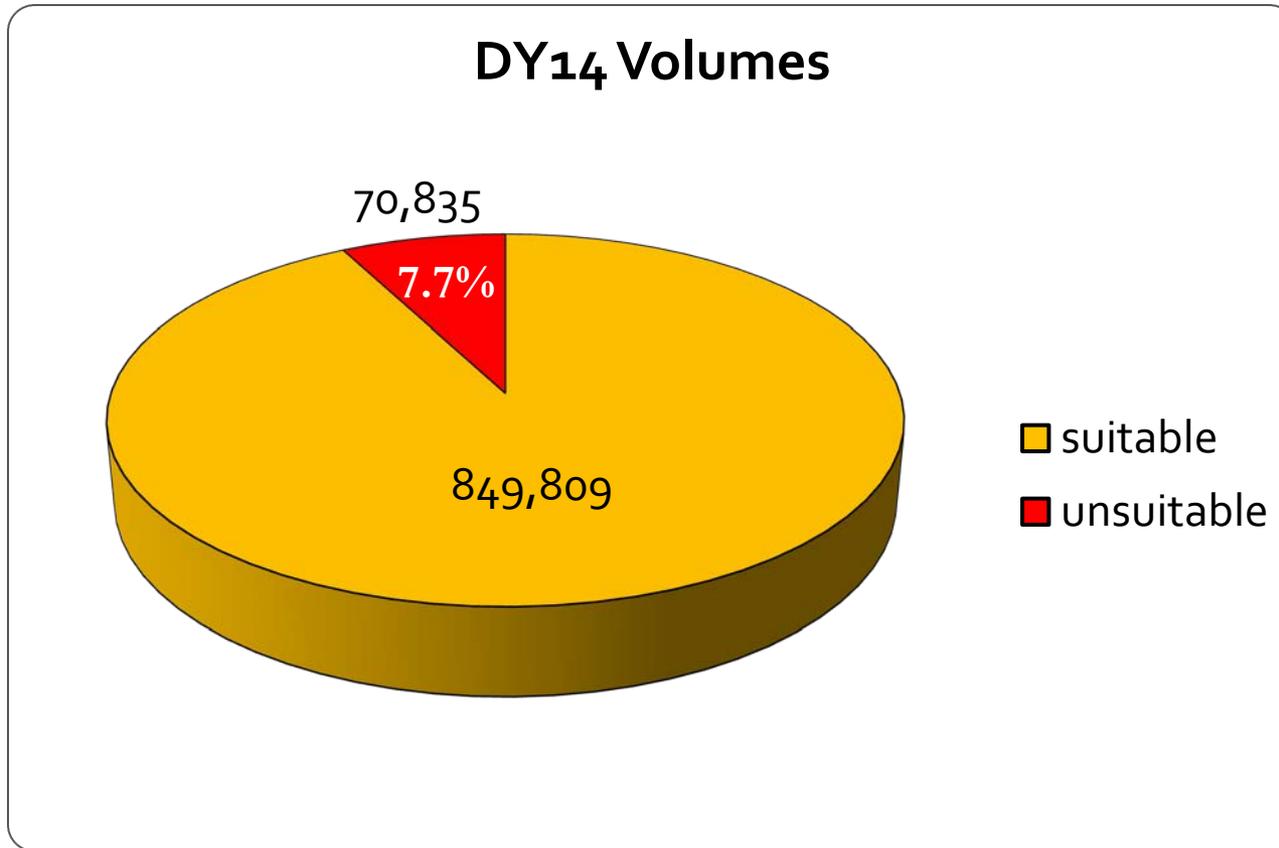


Projects with Unsuitable Dredged Material

Project	Suitable (cy)	Unsuitable (cy)	Reason
Duwamish Yacht Club	20,250	7,900	primarily dioxin
MJB Travelift	0	1,350	dioxin
Port of Seattle T5	0	7,490	TBT, dioxin, PCBs, Hg
Port of Seattle T91	0	2,200	TBT, dioxin, PCBs, PAHs, Hg
USACE Hylebos	0	47,445	primarily dioxin

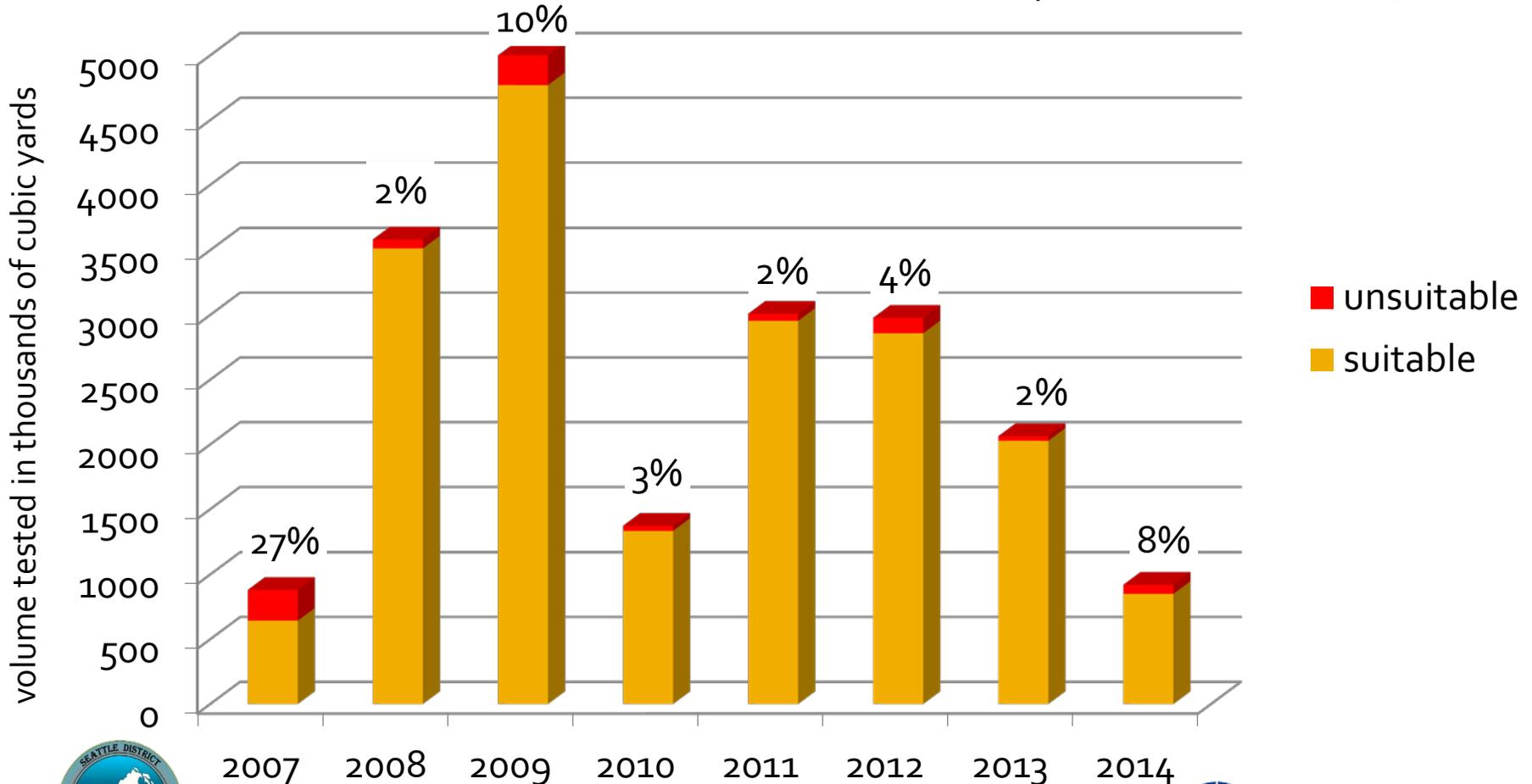


Suitability of Volume Tested



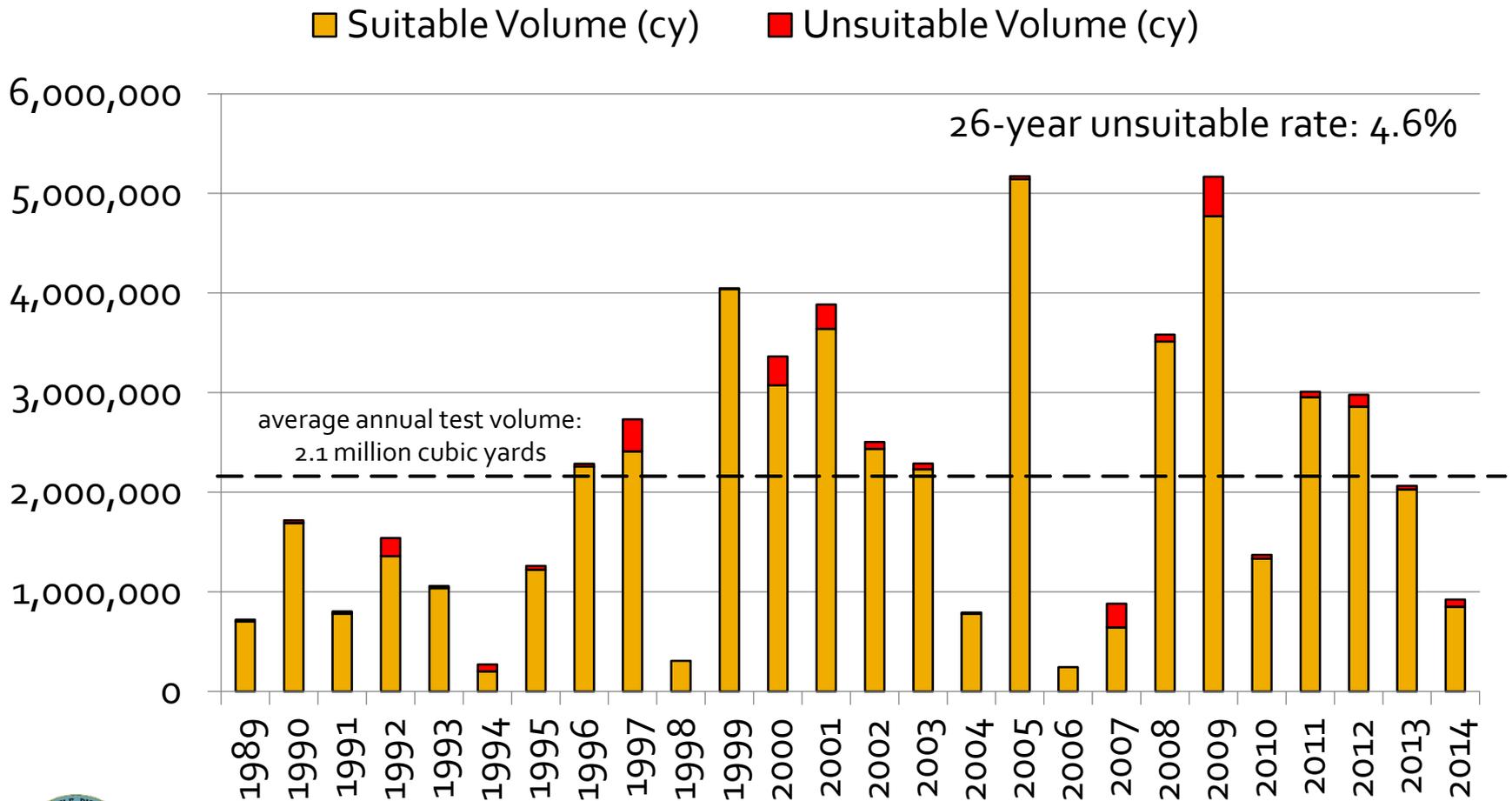
Multiyear Comparison

8-year unsuitable rate: 5.4%



WASHINGTON STATE DEPARTMENT OF
Natural Resources

DMMP Testing History

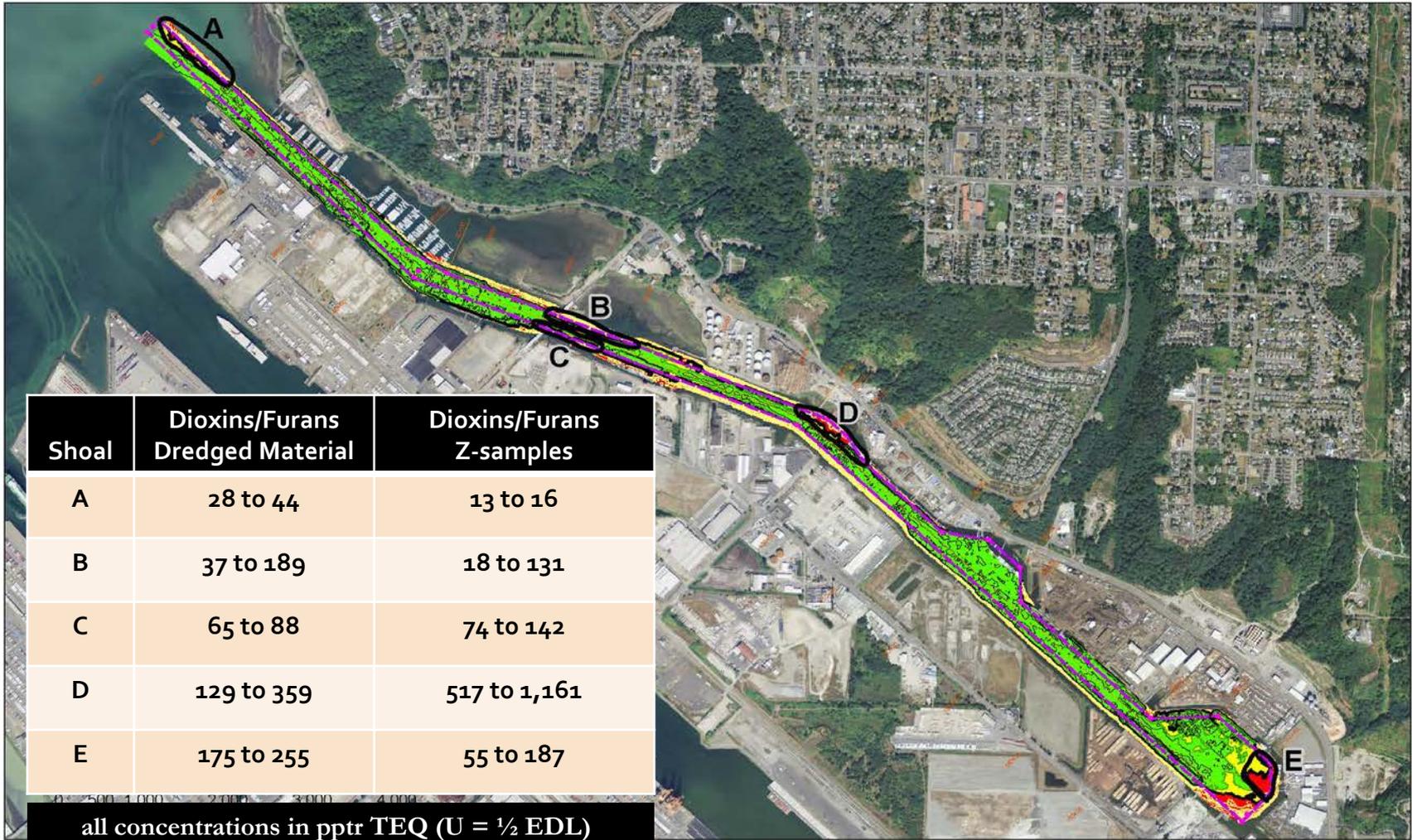


Antidegradation Testing

Project	Outcome	Remedy
Duwamish Yacht Club	partial failure (one-third of the area)	overdredge and cover
Port of Olympia Berths 1,2,3	fail	overdredge and cover
Swantown Boatworks	pass	no action needed
Port of Seattle T5	partial failure (half the area)	overdredge and cover
Port of Seattle T91	fail	to be determined
USACE Hylebos	fail	will not be dredged



USACE Hylebos - Dioxin



Projects underway, but incomplete

Cenex Harvest States, Kennewick*
City of Renton, Cedar River
La Conner Marina
Northwest Grain Growers, Wallula*
Port Gamble Restoration
Port of Tacoma Pier 4
Shelter Bay Marina
USACE Kenmore*
USACE Westhaven Cove, Westport*
USACE Willapa Bay*
US Navy Electromagnetic Measurement Ranging

*pre-SAP stage

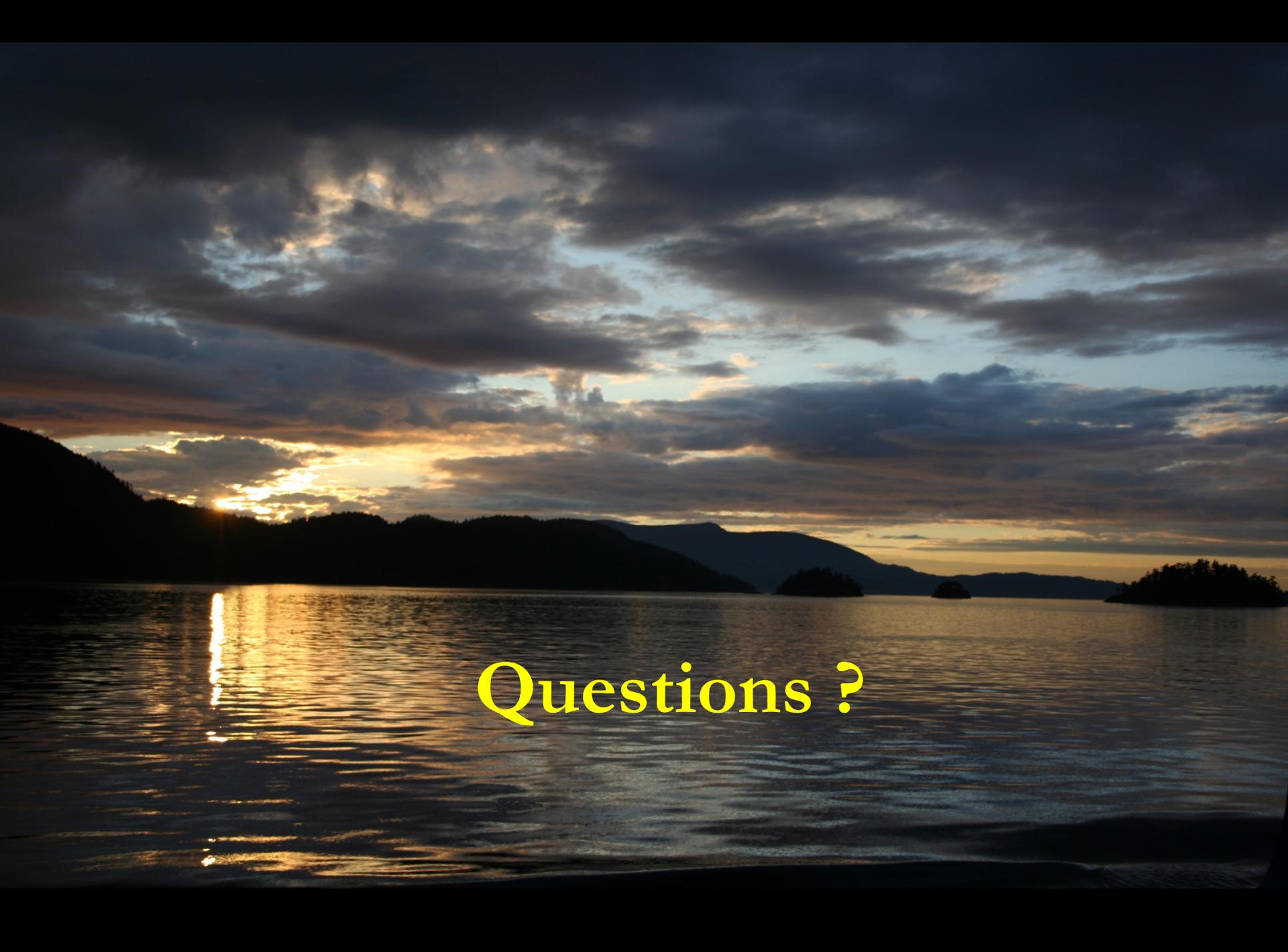


DMMO website

- All DMMP evaluation documents
- Biennial reports – including DY12/DY13

- Website URL:
- <http://www.nws.usace.army.mil>
 - Search for: Dredged Material Management



A scenic landscape photograph of a sunset over a large body of water. The sun is low on the horizon, partially obscured by dark, silhouetted mountains. The sky is filled with dramatic, dark clouds, with the sun's light breaking through to create a bright, shimmering reflection on the water's surface. The overall mood is serene and contemplative. The text "Questions?" is overlaid in the center in a bright yellow, serif font.

Questions ?