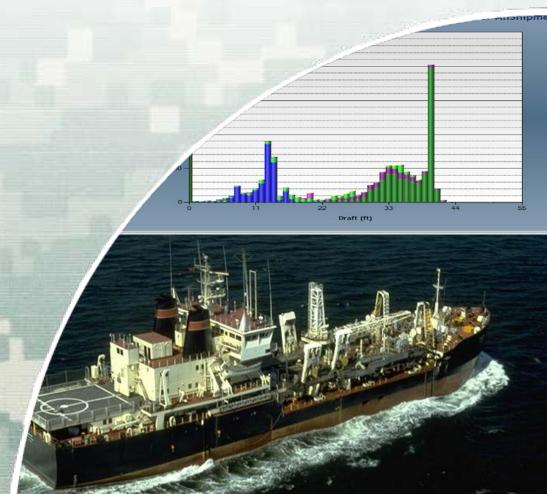
2015 Portland District and Walla Walla District, Joint Lock Users Meeting

Michael Ott

USACE Portland District

May 29, 2015

Boardman, OR







US Army Corps of Engineers
BUILDING STRONG®



Channels & Harbors Operational Projects



Mouth of The Columbia River (MCR)



19. Baker Bay



18. Chinook



17. Cowlitz River



16b. Lower Columbia River







3. Nehalem River



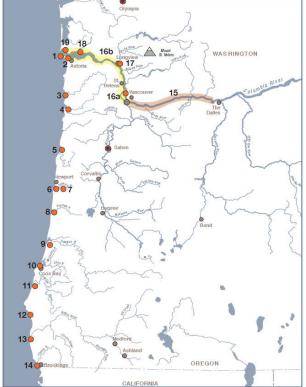
4. Tillamook Bay



Depoe Bay



6. Yaquina Bay & Harbor



16a. Lower Willamette River



15. Vancouver to The Dalles



14. Chetco River



13. Rogue River at Gold Beach



12. Port Orford



7. Yaquina River



8. Siuslaw River



9. Umpqua Rver



10. Coos Bay



11. Coquille River



PORTLAND DISTRICT BUILDING STRONG_®



USACE Civil Works Vision

Contribute to the strength of the Nation through innovative and environmentally sustainable solutions to the Nation's water resources challenges

Strategic Goals

Facilitate the transportation of commerce goods on the Nation's coastal channels

and inland waterways. Objective 5.1

Support the Nation and the Army in achieving our energy security and sustainability goals.

Objective 5.2

Capitalize, recapitalize, operate and maintain water resources infrastructure to provide maximum value to the Nation.

Objective 5.3

Provide reliable, renewable, hydropower to the Nation.

Objective 5.4

Provide water supply storage in partnership with state and local interests

Objective 1.1

Modernize the Civil Works project planning program.

Objective 1.2

Deliver quality solutions and services.

Objective 1.3

Develop a ready and resilient workforce through innovative talent management and leader development strategies and programs.

Objective 2.1

Reduce the Nation's risk and increase resilience to disasters.

infrastructure.

Objective 2.2

Support the Department of Homeland Security/Federal Emergency Management Agency to provide lifecycle public works and engineering support in response to disasters.

Objective 2.3

Effectively and efficiently execute response, recovery, and mitigation.

Objective 3.1

Facilitate commercial navigation by providing safe, reliable, highly cost-effective and environmentally sustainable waterbome transportation systems.

Objective 4.1

Restore aquatic habitat to a more natural condition in ecosystems in which structure, function, and dynamic processes have been degraded.

Objective 4.2

Reduce adverse Impacts to the Nation's wedands and waterways through an effective, transparent, and efficient Regulatory process.

Objective 4.3

Clean up radioactive waste sites.

Objective 4.4

Manage, conserve, and preserve natural resources at USACE projects.

Objective 4.5

Provide opportunities for quality outdoor public recreation.



Civil Works Strategic Plan 2014-2018 EP 1165-2-503, 31 Dec 14



Greater Pacific Navigation Medium Class Hopper Scope

Division

District

NWD

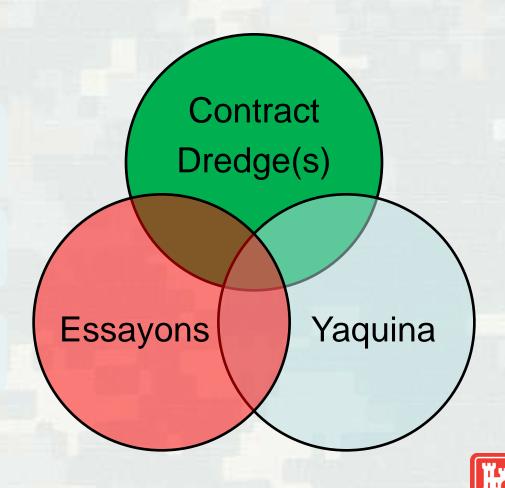
- Seattle
- Portland

SPD

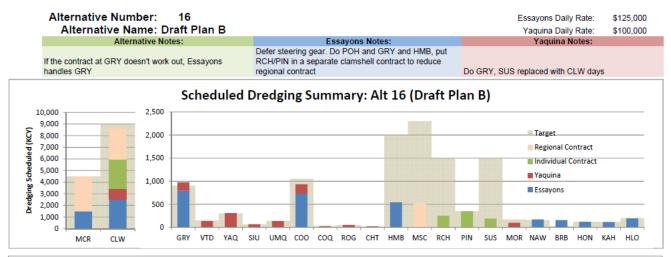
- San Francisco
- Los Angles

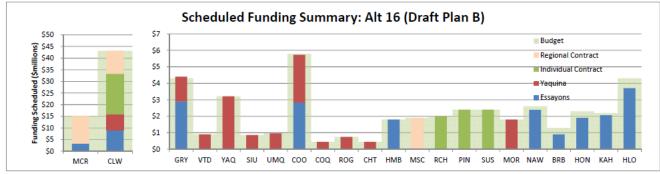
POD

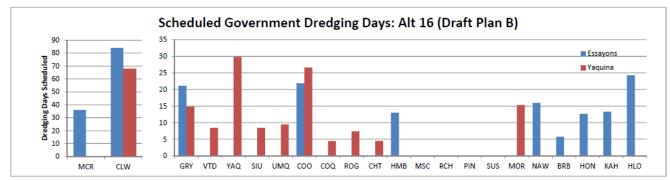
- Alaska
- Hawaii









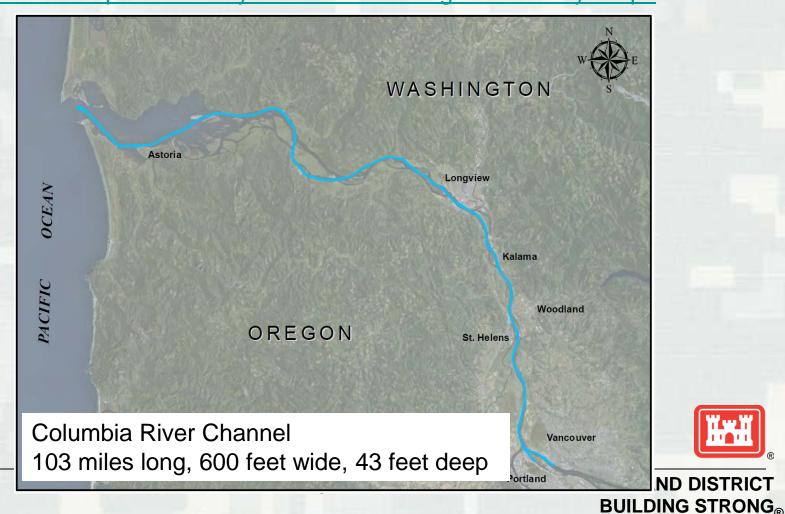






2015 Maintenance dredging Lower Columbia River

- •Channel condition hydrosurveys scheduled for Jan Dec
- Dredge Oregon, Hopper Dredges work May Dec
- Post-dredge channel hydrosurveys scheduled for May Dec http://www.nwp.usace.army.mil/Missions/Navigation/Surveys.aspx



Mouth of Columbia River

- Dredge ESSAYONS
 - (12 days complete, 24 days Aug-Sept)
- West Coast Regional Hopper
 - MCR, Columbia River, (Grays Harbor, San Francisco Main Ship Channel, Humboldt, Coos Bay)
 - ► Awarded February 18, 2015
- Regional Clamshell
 - ▶ Baker Bay, Chinook, Coastal
 - Expected Advertise May 2015







Columbia River Maintenance

43-ft Channel - RM 3 to 106.5

- Dredge ESSAYONS
 - ▶ 33 days complete, 34 days June-Sept
- Dredge YAQUINA
 - ▶ 46 days complete, 27 days May-Sept
- West Coast Hopper Contract
 - ▶ 30 days starting late June/July
- Dredge OREGON Contract
 - ► Fourth year of (5) years w/ Port of Portland
 - ▶ 4-6 months starting June
 - Planned placement at Rice, Miller, Pillar, Welch, Puget upland, Crims, Howard, Lower Deer, and/or Sand Is.



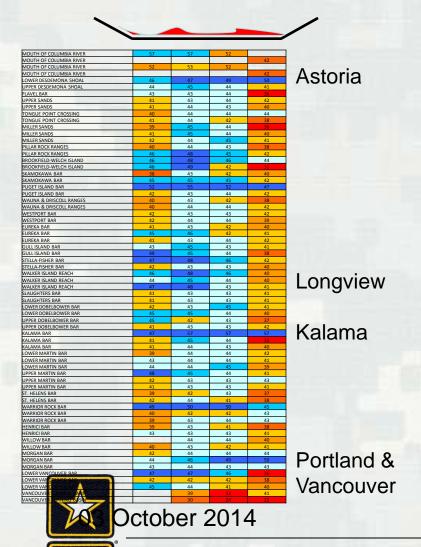


2015 Maintenance dredging between Vancouver and Bonneville Dam

- Channel condition hydrosurveys scheduled for July-Aug
- •Hopper Dredge YAQUINA to work 7-9 days in Aug-Sep
- Post-dredge channel hydrosurveys scheduled for Sep-Oct http://www.nwp.usace.army.mil/Missions/Navigation/Surveys.aspx



Columbia River Channel Status



Comparison of Draft Restrictions		
Year	Days	Percent of Time
2014	39	11
2013	67	18
2012	121	33
2011	258	71

7 or more feet above project depth

5 or 6 feet above project depth

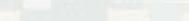
3 or 4 feet above project depth 1 or 2 feet above project depth

At or 1 foot below project depth

2 or 3 feet below project depth

4 feet or more below project depth

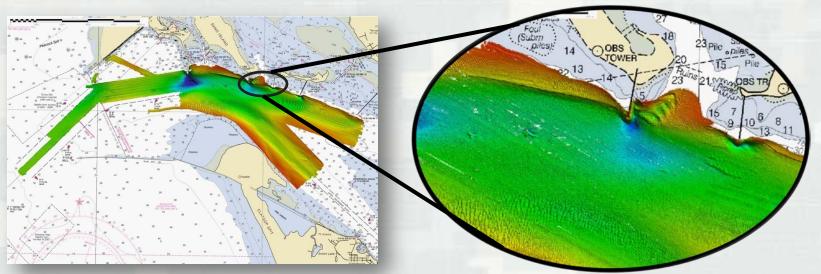






Pile Dikes

Passive Channel Maintenance



- Pile Dikes: decreased dredging requirements and increased habitat creation
- Focusing Attention 2013 OCA review of 4 most critical near Mouth of the Columbia River
- Poor condition and expensive rehab requirements





Automated Event Detection and Classification (AVEDac) Software

- Developed by MBARI, Caltech, and USC for analysis of ROV video
- Software is capable of tracking objects of interest through video frames
- Continued development of the software to review video and classify species
- Quality Control by OSU graduate student
- Once developed it should reduce labor requirement



Contact Information

Mike Ott – Operations Manager Michael.e.ott@usace.army.mil 503-808-4340

Karla Ellis – Chief, Waterways Maintenance Karla.g.ellis@usace.army.mil 503-808-4345



