

## COLUMBIA RIVER CHANNEL IMPROVEMENT PROJECT

# PROJECT BENEFITS

- Longview, Kalama, Woodland, Vancouver, Astoria, St. Helens, & Portland
- Panamax class ships
  - 905' x 106' x 43'
- Containers
- Grain
  - Corn
  - Wheat
- Costs = \$196m = (\$17m/yr)
- Benefits = \$34m/yr



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# Dredging Plan

- Columbia River Miles 3-105.5
- Willamette River is deferred
- 40/45 ft to 43/48 ft
- Follows existing alignment
- 20 mcy of new work dredging
- 90 mcy of O&M in 20 years
  - 12 mcy more than w/o project
  - 20-25% reduction from past levels



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# Dredging Plan

- Year round dredging
  - Two pipeline dredges u/s RM 40
  - Two hopper dredges d/s RM 40
- Blasting plan to be prepared
  - refining rock volumes
  - coordinate with resource agencies
  - in-water work November-March



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# **DISPOSAL SITING PROCESS**

- Environmental Screening Criteria
- Develop Economic Costs for all Sites
- Present Disposal Plan to Resource Agencies
- Conduct Public Meetings
- Refine Results



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# Disposal Plan

- Upland sites
  - 29 sites totaling 1780 acres
  - 25 previous disposal sites
- 3 Beach nourishment sites
- In-water sites
  - generally in 50-65 ft depths
  - 3 mcy of construction
    - 2.5 mcy between RM 27-42
  - 24 mcy of O&M in 20 years
- Ocean site
  - 7 mcy of construction
  - 9 mcy of O&M in 20 years



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# Mitigation

- Workshops w/ USFWS, ODFW, WDFW, WDOE
- No in-water mitigation
- Mitigation required for:
  - 200 acres of ag land
  - 67 acres of riparian
  - 20 acres of wetlands
- 3 mitigation sites
  - Martin Island, Woodland Bottoms, & Webb
  - 236 acres of wetlands
  - 331 acres of riparian
  - 132 acres of ag land



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# Ecosystem Restoration

- Agency workshops
- Shillapoo Lake
  - WDFW, Ducks Unlimited, Nature Conservancy, BPA
  - 1,250 acres of wetland/riparian habitat
  - water control structures
- Miller-Pillar
- Island breaches
- Fish slide gates

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# **RESOURCE AGENCY COORDINATION**

- Salinity Workshops
- Reach meetings
- Sediment Quality Technical Group
- Wildlife Mitigation Work Group
- Ecosystem Restoration Workshops
- Ocean Disposal Working Group
- Endangered Species Act Consultation



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# **PUBLIC INVOLVEMENT**

- 3 rounds of Public Workshops
- 17 Environmental Roundtables
- 10 Ocean Disposal Workshops
- Review of Dredged Material Management Plan and SEIS
- Meetings with affected landowners
- Review of Feasibility/EIS Report

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# FEIS ISSUES

- Alternatives
- Habitat losses/mitigation plan
- Ecosystem restoration
- Sediment transport
- In-water disposal
- Ship wake erosion
- Sediment quality
- Economic benefits
- Ocean disposal
- Dredging window
- Entrainment
- Caspian terns
- Wetlands