Chapter 9
References

9.1 Section 3.1 Earth

9.1.1 Written Resources

AMOG Consulting 2010. *BHP Billiton–Olympic Dam EIS Project: Assessment of Waves and Propeller Wash Associated with Shipping, Final Report*. October. Document Number r2010.j017.001.1. Victoria, Australia.

Atwater, B. F. 1992. Geologic Evidence for Earthquakes during the Past 2000 Years along the Copalis River, Southern Coastal Washington. *Journal of Geophysical Research* 97(B2): 1901–1919.

Atwater, B. F. and fifteen others. 1995. Summary of Coastal Geologic Evidence for Past Great Earthquakes at the Cascadia Subduction Zone. *Earthquake Spectra* 11: 1–18.

Atwater, B. F. and E. Hemphill-Haley. 1997. *Recurrence intervals for great earthquakes of the past 3,500 years at northeastern Willipa Bay, Washington*. U.S. Geological Survey Professional Paper 1576.

Atwater, B. F., M. Cisternas V., J. Bourgeois, W. C. Dudley, J. W. Hendley II and P. H. Stauffer. 2005. *Surviving a Tsunami-Lessons from Chile, Hawaii, and Japan.* Revised and Reprinted 2005. U.S. Geological Survey Circular 1187.

Boersema, Jana. 2013. A *Cultural Resources Assessment and Survey of the Westway Grays Harbor Terminal Expansion Project, Grays Harbor County, Washington.* Prepared for Westway Group, LLC. Seattle, WA: Cascadia Archaeology, December 23. On file at DAHP.

Cakir, R. and T. J. Walsh. 2012. *Loss Estimation Pilot Project for Lahar Hazards from Mount Rainier, Washington.* Washington Division of Geology and Earth Resources, Information Circular 113, May 2012.

Cascadia Region Earthquake Workgroup (CREW). 2013. *Cascadia Subduction Zone Earthquakes. A Magnitude 9.0 Earthquake Scenario*. Update 2013. Cascadia Region Earthquake Group. Available: www.crew.org/earthquake-information/cascadia-subduction-interface. Also available as Washington Division of Geology and Earth Resources Information Circular 116, Oregon Department of Geology and Mineral Industries Open-File Report 0-13-22, and British Columbia Geological Survey Information Circular 2013-3.

Coast and Harbor Engineering. 2014, *Technical Memorandum. Grays Harbor Tsunami Hydrodynamic Modeling Methodology.* Edmonds, WA.

GeoEngineers. 2006. *Report Geotechnical Engineering Services Proposed Storage Tanks*. Port of Grays Harbor, Washington. June 13, 2006.

Grays Harbor County. 2011. *Grays Harbor County 2011-2016 Hazard Mitigation Plan*. Prepared by J. M. Klein and D. A. Holden, Creative Community Solutions, Inc., October 31, 2011.

Haini, F. P. 1983. *Sediment Deposition in the Columbia And Lower Cowlitz Rivers, Washington-Oregon, Caused by the May 18, 1980, Eruption of Mount St. Helens.* U.S. Geological Survey Circular 850-K. Available: http://pubs.er.usgs.gov/publication/cir850K. Accessed: September 14, 2014.

Hart Crowser, Inc. 2013. *Geotechnical Engineering Report, Westway Terminals Expansion, Port of Grays Harbor, Washington.* February 21, 2013.

Jacoby, G. C., D. E. Bunker and B. E. Benson. 1997. Tree-Ring Evidence of an A.D. 1700 Cascadia Earthquake in Washington and Northern Oregon. *Geology* 11: 999–1002.

Lidke, D. J., S. Y. Johnson, P. A. McCrory, S. F. Petronius, A. R. Nelson, R. L. Dart, L-A. Bradley, K. M. Haller and M. N. Machette. 2003. Map and data for Quaternary Faults and Folds in Washington State. U.S. Geological Survey Open-File Report 03-428. Available: http://pubs.usgs.gov/of/2003/428/; Accessed: April 2, 2014.

Logan, R. L. Compiler. 1987. Geologic map of the south half of the Shelton and south half of the Copalis Beach quadrangles, Washington. Washington Division of Geology and Earth Resources Open File Report 87-9, Revised December 1987, 17pp. Available: http://www.dnr.wa.gov/researchscience/pages/pubmaps.aspx.

Noson, L. L., A. Qamar and G. W. Thorsen. 1988. *Washington State Earthquake Hazards*. Washington Division of Geology and Earth Resources Information Circular 85.

Pacific Northwest Seismic Network. 2014. *Historic Catalog.* Available: www.pnsn.org/earthquakes/historic-catalog.

Palmer, S. P, S. L. Magsino, E. L. Bilderback, J. L. Poelstra, D. S. Folger and R. A. Niggemann. 2004. Liquefaction susceptibility and site class maps of Washington State, by County. Washington. Washington Department of Natural Resources, Washington Division of Geology and Earth Resources Open File Report 2004-20. Available: ftp://ww4.dnr.wa.gov/geology/pubs/ofr04-20/. Accessed: September 10, 2014.

Parsons, T. and 12 others. 2005. *Earthquake Hazards of the Cascadia Fore Arc of Washington.* U.S. Geological Survey Professional Paper 1661-D. Available: http://pubs.usgs.gov/pp/pp1661d/. Accessed: April 2, 2014.

Petersen, M. D. and 16 others. 2014. Documentation for the update of the United States national seismic hazard maps. U.S. Geological Survey Open-File Report 2014-1091.

Sarikhan, I. Y. and T. A. Contreras. 2009. *Landslide Field Trip to Morton, Glenoma, and Randle, Lewis County, Washington.* Washington Division of Geology and Earth Resources Open File Report 2009-1.

Shannon and Wilson. 2013. *Geotechnical Engineering Report.* Westway Terminals Expansion, Port of Grays Harbor, Washington. Prepared for Westway Terminals Company. February 1, 2013.

Shennan, I. A. J. Long, M. M. Rutherford, F. M. Green, J. B. Innes, J. M. Lloyd, Y. Zong and K. J. Walker. 1996. Tidal Marsh Stratigraphy, Sea-Level Change and Large Earthquakes, I: A 5000 Year Record in Washington, U.S.A. *Quaternary Science Reviews* 15: 1023–1059.

Slaughter, S. L., T. J. Walsh, A. Ypma, K. M. D. Stanton, R. Cakir and T. A. Contreras. 2013. Earthquake-induced landslide and liquefaction susceptibility and initiation potential maps for tsunami inundation zones in Aberdeen, Hoquiam, and Cosmopolis, Grays Harbor County, Washington: for

a M9+ Cascadia Subduction Zone event. Washington Department of Geology and Earth Resources Report of Investigations 36, February 2013.

Stewart, G., J. Dieu, J. Phillips, M. O'Conner and C. Veldhuisen. 2013. *The Mass Wasting Effectiveness Monitoring Project: An Examination of the Landslide Response to the December 2007 storm in Southwestern Washington*. Cooperative Monitoring and Evaluation and Research Committee (CMER) of the Washington State Forest Practices Board, CMER Publication 08-802, May 2013.

U.S. Geological Survey. 2009. *Earthquake Probability Mapping.* Available: http://geohazards.usgs.gov/eqprob/2009/.

U.S. Geological Survey. 2015. The Modified Mercalli Intensity Scale. Earthquake Hazards Program. Available: http://earthquake.usgs.gov/learn/topics/mercalli.php. Accessed: April 1, 2015.

Walsh, T. J., C. G. Curuthers, A. C. Heinitz, E. P. Meyers, A. M. Baptista, G. B. Erdakos and R. A. Kamphaus. 2000. Tsunami hazard map of the southern Washington coast – modeled tsunami inundation from a Cascadia subduction zone earthquake. Washington Division of Geology and Earth Resources Geologic Map GM-49, 1 sheet, scale 1:100,000, with 12p. text.

Wang, P-L., and six others. 2013. Heterogeneous Rupture in the Great Cascadia Earthquake of 1700 Inferred from Coastal Subsidence Estimates. *Journal of Geophysical Research: Solid Earth* 118: 1-14.

Washington State Department of Ecology. 2012. *Stormwater Management Manual for Western Washington*. Publication No. 12-10-030 (a revision of Publication No. 05-10-029). August. 5 volumes.

Washington State Department of Natural Resources.2014a. Division of Geology and Earth Resources.). Washington Interactive Geologic Map. Available: www.dnr.wa.gov/ResearchScience/Topics/GeosciencesData/Pages/geology_portal.aspx and https://fortress.wa.gov/dnr/geology/?Theme=wigm). Accessed: September 12, 2014.

Washington State Department of Natural Resources, 2014b. Significant Deep-Seated Landslides in Washington State. 3pp. Available: www.dnr.wa.gov/ResearchScience/Topics/GeologicHazardsMapping/Pages/landslides.aspx and http://www.dnr.wa.gov/Publications/ger_list_large_landslides.pdf.

Washington State Department of Natural Resources, Division of Geology and Earth Resources. 2014c. Natural Hazards Map. Available: https://fortress.wa.gov/dnr/geology/?Theme=natural_hazards. Accessed: September 2, 2014.

Washington State Department of Transportation. 2010. *WSDOT's Unstable Slope Management Program*. January 2010. Available: http://www.wsdot.wa.gov/NR/rdonlyres/7D456546-705F-4591-AC5B-7E0D87D15543/78408/UnstableSlopeFinaFolioWEBSMALL.pdf. Accessed: September 2, 2014.

Washington State Seismic Safety Committee. 2012. *Resilient Washington State – A Framework for Minimizing Loss and Improving Statewide Recovery After an Earthquake*. Final report and recommendations. November 2012.

Wolfe, E. W. and T. C. Pierson. 1995. *Volcanic-Hazard Zonation for Mount St. Helens, Washington.* U.S. Geological Survey Open-File Report 95-497. Available:

www.co.cowlitz.wa.us/index.aspx?NID=1322. Available: http://pubs.usgs.gov/of/1995/0497/. Accessed: April 2, 2014.

9.1.2 Personal Communications

Fish, Marc. Assistant Chief Engineering Geologist/Unstable Slopes Unit Manager. Washington State Department of Transportation, Geotechnical Office, Olympia, WA. April 13, 2015—Email transmittal of unstable slope rating criteria for selected segments of Washington State Route 12 in Grays Harbor County, WA.

Trople, Tracy. GIS Analyst. Washington State Department of Transportation, Geotechnical Office, Olympia, WA. April 6 and 14, 2015—Email exchange and transmittal of GIS data from WSDOT Unstable Slopes Management Program for selected segments of Washington State Route 12 in Grays Harbor County, WA.

9.2 Section 3.2 Air

9.2.1 Written Resources

California Air Resources Board. 2008. *Diesel Particulate Matter Health Risk Assessment for the West Oakland Community*. *Appendix D: Potential Cancer Risk Isopleths by Parts and by Categories*. December.

Intergovernmental Panel on Climate Change. 2013. Annex III: Glossary [Planton, S. (ed.)]. In: *Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* [Stocker, T. F., D. Qin, G.-K. Plattner, M. Tignor, S. K. Allen, J. Boschung, A. Nauels, Y. Xia, V. Bex and P. M. Midgley (eds.)].Cambridge, United Kingdom and New York, NY: Cambridge University Press.

Oxford E-Research Center. 2015. *Explaining the Need to Limit Cumulative Emissions of Carbon Dioxide*. Data provided by the Department of Physics, University of Oxford. Available: TrillionthTonne.Org.

Trinity Consultants. 2015. Westway Terminal Company LLC Crude by Rail Project for Hoquiam Terminal—Westway's Response to ORCAA's December 5, 2014 Preliminary Required Revisions for NOC Application. June 23.

U.S. Energy Administration. 2013. *U.S. Crude Oil and Natural Gas Proved Reserves.* Available: http://www.eia.gov/naturalgas/crudeoilreserves/pdf/usreserves.pdf.

U.S. Energy Administration. 2015. *Crude Oil Production.* Available: http://www.eia.gov/dnav/pet/pet_crd_crpdn_adc_mbblpd_a.htm.

U.S. Environmental Protection Agency. 2014. *Emission Factors for Greenhouse Gas Inventories.* April. Available: http://www.epa.gov/climateleadership/documents/emission-factors.pdf.

Washington State Department of Ecology. 2014a. Washington State 2011 County Emission Inventory. April. Updated October 2014. Prepared by Sally Otterson, Stephanie Summers, Farren Herron-Thorpe, and Sarah Clouse. Air Quality Program, Olympia,WA. Available: http://www.ecy.wa.gov/programs/air/EmissionInventory/AirEmissionInventory.htm.

Washington State Department of Ecology. 2014b. *Washington State Draft 2014 Marine and Rail Oil Transportation Study*. Publication Number 14-08-015. December 1.

Washington State Department of Transportation. 2013. *2013 Annual Traffic Report.* Available: http://www.wsdot.wa.gov/mapsdata/travel/annualtrafficreport.htm.

White House. 2014. White House, Office of the Press Secretary. 2014. *U.S.-China Joint Announcement on Climate Change and Clean Energy Cooperation*. Available: https://www.whitehouse.gov/the-press-office/2014/11/11/fact-sheet-us-china-joint-announcement-climate-change-and-clean-energy-c.

World Resources Institute. 2014. *Climate Analysis Indicators Tool: WRI's Climate Data Explorer.* Washington, DC. Available: http://cait2.wri.org.

9.3 Section 3.3 Water

9.3.1 Written Resources

Chehalis Basin Partnership. 2004. *Chehalis Basin Watershed Management Plan*. Available: http://www.chehalisbasinpartnership.org/watershed_plan/watershed_plan.html. Accessed: September 30, 2014.

Chehalis River Basin Flood Authority. 2010. *Draft Report—Chehalis River Hydraulic Model Development Project.* Prepared by WATERSHED Science & Engineering and WEST Consultants. July. 56 pp + appendices.

Conestoga-Rovers & Associates. 2013. *Phase I Environmental Site Assessment: Westway Terminal – Grays Harbor, 3128 Port Industrial Road, Hoquiam, Washington*. April. (CRA No. 081676 (13)) St. Paul, MN. Prepared for Westway Group LLC. Hoquiam, WA.

Cordell, J., O. Kalata, A. Pleus, A. Newsom, K. Strieck, and G. Gertsen. 2015. *Effectiveness of Ballast Water Exchange in Protecting Puget Sound From Invasive Species: Results From WDWF/UW Ballast Water Sampling*, 2001-2014. Report to Washington Department of Fish and Wildlife, Contract 12-1212, 1–22 and 44–45.

Corrigan Consulting, Inc. 2009. *Phase I Environmental Site Assessment: Grays Harbor Terminal Lease Site, Hoquiam, WA*. August. (CCI Job No. 09-131). Houston, TX. Prepared for Westway Group, LLC. Tomball, TX.

Federal Emergency Management Agency. 1979. *Flood Insurance Rate Map: City of Hoquiam, Washington, Grays Harbor County*. Community Panel Number 530061 0005 B. Effective Date: June 15, 1979.

Federal Emergency Management Agency. 1984. *Flood Insurance Rate Map: City of Aberdeen, Washington, Grays Harbor County.* Community Panel Number 530058 0003 B. Effective Date: July 16, 1984.

Federal Emergency Management Agency. 2006a. *Letter of Map Revision: Flood Insurance Rate Map, City of Aberdeen, Washington*. Grays Harbor County. Community Panel Number 530058 0003 B. Effective Date: October 26, 2006.

Federal Emergency Management Agency. 2006b. *Letter of Map Revision: Flood Insurance Rate Map, City of Hoquiam, Washington*. Grays Harbor County. Community Panel Number 530061 0005 B. Effective Date: October 26, 2006.

Federal Emergency Management Agency. 2011. *National Flood Insurance Program: Answers to Questions about the NFIP*. FEMA F-084. March.

Federal Emergency Management Agency. 2013. *Flood Insurance Rate Map: Grays Harbor, Washington and Incorporated Areas*. Map Number 53027C1153E. Preliminary. October 25.

Federal Highway Administration and Washington State Department of Transportation. 2010. *SR 520 Pontoon Construction Project Draft Environmental Impact Statement*. May. FHWA-WA-EIS-10-010-D.

Hart Crowser, Inc. 2013. *Geotechnical Engineering Report: Westway Terminal Expansion, Port of Grays Harbor, Washington*. February. (HC No. 17913-00). Seattle, WA. Prepared for Westway Group, LLC. Hoquiam, WA.

Minton, M. S., E. Verling, A. W. Miller, and G. Ruiz. 2005. Reducing Propagule Supply and Coastal Invasions Via Ships: Effect of Emerging Strategies. *Frontiers in Ecology and the Environment*. 3(6): 304–308.

National Ballast Information Clearinghouse. 2014. *National Ballast Information Clearinghouse Database*. Available: http://invasions.si.edu/nbic/. Accessed: October 26, 2014.

National Oceanic and Atmospheric Administration. 2015. *United States Coast Pilot 7 - Pacific Coast: California, Oregon, Washington, Hawaii, and Pacific Islands.* 47th Edition. Available: http://www.nauticalcharts.noaa.gov/nsd/coastpilot/files/cp7/CPB7_E47_20150508_1809_WEB.pdf. Accessed: May 12, 2015.

Northwest Area Committee. 2013. *Grays Harbor Geographic Response Plan: Chapter 2 – Site Description*. Available: http://www.ecy.wa.gov/programs/spills/preparedness/GRP/GraysHarbor/GraysHarbor-Chapter2.pdf. Accessed: September 30, 2014.

Ruiz, G. and G. Smith. 2005. *Final Report: Biological Study of Container Vessels at the Port of Oakland.* Report to Port of Oakland. Submitted by Smithsonian Environmental Research Center, Edgewater, MD, 1–13.

Thurston County Washington. 2010. *Existing Critical Aquifer Recharge Areas and McAllister Geologically Sensitive Area [map]*. Available: http://www.co.thurston.wa.us/planning/critical_areas/maps-2010/CARA.pdf. Accessed: October 28, 2014.

U.S. Army Corps of Engineers. 2011. *Draft Environmental Assessment, FY 2011 through 2018 Maintenance Dredging and Disposal, Grays Harbor and Chehalis River Navigation Project*. Seattle District. Seattle, WA.

U.S. Army Corp of Engineers 2014. Appendix of the *Draft Supplemental Environmental Impact Statement for the Grays Harbor, Washington Navigation Improvement Project General Investigation Feasibility Study.* Seattle Corps District. January. Available: http://www.nws.usace.army.mil/Portals/27/docs/civilworks/navigation/Appendix%20C%20-

%20Draft%20Supplemental%20Environmental%20Impact%20Statement.pdf. Accessed: May 12, 2015.

U.S. Army Corp of Engineers 2015. *Grays Harbor Navigation.* Available: http://www.nws.usace.army.mil/Missions/CivilWorks/Navigation/NavigationProjects/GraysHarbor.aspx. Accessed: May 12, 2015.

U.S. Geological Survey. 2013. *Water-Data Report 2013: 12035100 Chehalis River Near Montesano, WA, Washington Coastal Basin, Lower Chehalis Subbasin*. Available: http://waterdata.usgs.gov/nwisweb/data/sims/adr/wy2013/12035100.2013.pdf?1414534970048. Accessed: October 28, 2014.

Verling, E., G. Ruiz, L. Smith, B. Galil, A. W. Miller, and K. Murphy. 2005. *Supply-Side Invasion Ecology: Characterizing Propagule Pressure in Coastal Ecosystems*. Proceedings of the Royal Society B. 272: 1249–1257.

Vincent, M. K. 1978. *Habitat Development Field Investigations, Rennie Island Marsh Development Site, Grays Harbor, Washington: Summary Report*. Dredged Material Research Program Technical Report D-78-11. Environmental Laboratory. U.S. Army Engineer Waterways Experiment Station. Vicksburg, MS.

Washington Department of Fish and Wildlife. 2014. *SalmonScape Interactive Website*. Available: http://apps.wdfw.wa.gov/salmonscape/. Accessed: October 13, 2014.

Washington State Conservation Commission. 2001. *Salmon and Steelhead Habitat Limiting Factors*. Chehalis Basin and Nearby Drainages Water Resource Inventory Areas 22 and 23. Olympia, WA. November.

Washington State Department of Ecology. 1992. *Grays Harbor (Inner) Dioxin Total Maximum Daily Load.* Available: https://fortress.wa.gov/ecy/publications/SummaryPages/9210202.html.

Washington State Department of Ecology. 1998. *Chehalis River Watershed Surficial Aquifer Characterization*. Environmental Assessment Program, Watershed Ecology Section. December. Publication Number 98-335. Olympia, WA.

Washington State Department of Ecology. 2000a. *Grays Harbor Fecal Coliform Total Maximum Daily Load Study. Environmental Assessment Program*. June. Publication Number 00-03-020. Olympia, WA.

Washington State Department of Ecology. 2000b. *Revised Upper Chehalis River Basin Dissolved Oxygen Total Maximum Daily Load Submittal Report*. Water Quality Program. March. Publication Number 00-10-018. Olympia, WA.

Washington State Department of Ecology. 2002. *Grays Harbor Fecal Coliform Total Maximum Daily Load Study Submittal Report*. Publication No. 01-10-025 WQ. Olympia, WA.

Washington State Department of Ecology. 2004a. *Upper Chehalis River Fecal Coliform Bacteria Total Maximum Daily Load Submittal Report*. May. Water Quality Program. Publication No. 04-10-041. Olympia, WA.

Washington State Department of Ecology. 2004b. *The Chehalis/Grays Harbor Watershed Dissolved Oxygen, Temperature, and Fecal Coliform Bacteria TMDL: Detailed Implementation (Cleanup) Plan*. November. Water Quality Program. Publication No. 04-10-065. Olympia, WA.

Washington State Department of Ecology. 2006. *Water Quality Program Policy - Chapter 1: Assessment of Water Quality for the Clean Water Act Sections 303(d) and 305(b) Integrated Report*. Available: http://apps.ecy.wa.gov/wats/1-11.pdf#page=30&zoom=100. Accessed: September 30, 2014.

Washington State Department of Ecology. 2012a. *Focus on Water Availability: Lower Chehalis & Upper Chehalis Watersheds, WRIAs 22 & 23*. Water Resources Program. Publication No.11-11-027. Available: https://fortress.wa.gov/ecy/publications/publications/1111027.pdf. Accessed: October 1, 2014.

Washington State Department of Ecology. 2012b. *Current EPA-Approved Water Quality Assessment for Washington 303(d)/305(b) Integrated Report*. Available: http://www.ecy.wa.gov/programs/wq/303d/currentassessmt.html. Accessed: September 30, 2014.

Washington State Department of Ecology. 2012c. *Stormwater Management Manual for Western Washington: Volumes I through IV*. Publication No. 12-10-030. August. Olympia, WA.

Washington State Department of Ecology. 2014a. *Water Quality Improvement Projects: Chehalis River Area: Multi-Parameter*. Available: http://www.ecy.wa.gov/programs/wq/tmdl/ChehalisRvrTMDLSummary.html. Accessed: September 30, 2014.

Washington State Department of Ecology. 2014b. *Water Quality Improvement Projects (TMDLs): Chehalis River Basin Area*. Available: http://www.ecy.wa.gov/programs/wq/tmdl/ChehalisIndex.html. Accessed: September 30, 2014.

Washington State Department of Ecology. 2014c. *Washington State Coastal Atlas: Flood Hazard Maps*. Available: https://fortress.wa.gov/ecy/coastalatlas/tools/Flood.aspx. Accessed: October 1, 2014.

Washington State Department of Natural Resources. 2009. *Chehalis River Surge Plain NAP Management Plan, Grays Harbor County, Washington*. January 2009. Prepared by Pacific Cascade Region Natural Areas Program Washington Department of Natural Resources.

9.4 Section 3.4 Plants

9.4.1 Written Resources

Borde, A. B., R. M. Thom, S. R. Rumrill, and L. M. Miller. 2003. Geospatial habitat change analysis in Pacific Northwest coastal estuaries. *Estuaries* 26:1104–1116.

Carrasquero, J. 2001. *Over-Water Structures: Freshwater Issues*. Washington State Department of Fish and Wildlife White Paper. Report of Herrera Environmental Consultants to Washington Department of Fish and Wildlife, Washington Department of Ecology, and Washington Department of Transportation.

Conestoga-Rovers & Associates. 2013. *Phase I Environmental Site Assessment: Westway Terminal – Grays Harbor, 3128 Port Industrial Road, Hoquiam, Washington*. April. (CRA No. 081676 (13)) St. Paul, MN. Prepared for Westway Group LLC. Hoquiam, WA.

Federal Highway Administration and Washington State Department of Transportation. 2010. *SR 520 Pontoon Construction Project Draft Environmental Impact Statement*. May. FHWA-WA-EIS-10-010-D.

Franklin, J. and C. T. Dyrness. 1973. *Natural Vegetation of Oregon and Washington. USDA Forest Service, General Technical Report* PNW-8-1973. 44–45, 58–63.

GeoEngineers. 2013. *Additional Subsurface Investigation. Biodiesel Processing Facility Expansion Project Hoquiam, Washington.* Prepared for Imperium Renewables. February 25.

Ibrahim, A. M. and M. M. A. El-Naggar. 2012. Ballast Water Review: Impacts, Treatments, and Management. *Middle-East Journal of Scientific Research*. 12(7): 976-984.

ICF Jones & Stokes. 2009. *Grays Harbor Eelgrass/Macroalgae Survey Report for the Aberdeen Log Yard Site, Anderson & Middleton Site, and Site 3 Moorage*. December. (ICF J&S 827.08.141.) Seattle, WA. Prepared for Washington State Department of Transportation, Seattle, WA.

James, K. and V. Martino. 1986. *Grays Harbor and Native Americans*. Prepared as part of Contract No. DACW67-85-M-0093. Seattle, WA: U.S. Army Corps of Engineers District.

Jonason, O. 1993. *Ferry Wake Study:* Final Report. Research Project T9903, Task 3, Subtask 8. Report No. WA-RD 331.1. November. Washington State Transportation Center, Washington State Department of Transportation. Seattle, WA. Prepared for: Washington State Transportation Commission in cooperation with and U.S. Department of Transportation, Federal Highway Administration.

Multi-Resolution Land Characteristics Consortium. 2014. National Land Cover Database 2011. Last revised: May 2014. Available: http://www.mrlc.gov/nlcd2011.php. Accessed: September 10, 2014.

Mumford, T. F., Jr. 2007.*Kelp and Eelgrass in Puget Sound*. Puget Sound Nearshore Partnership Report No. 2007-05. Published by Seattle District, U.S. Army Corps of Engineers, WA. Available: www.pugetsoundnearshore.org.

Natural Resources Conservation Service. 2000. Plant Guide, Basket Grass (*Schoenoplectus pungens [M. Vahl]*) Palla. Available: http://plants.usda.gov/plantguide/pdf/cs_scpu10.pdf. Accessed: October 3 2014.

Northwest Area Committee. 2013. *Grays Harbor Geographic Response Plan*. Available: http://www.ecy.wa.gov/programs/spills/preparedness/GRP/GraysHarbor/GraysHarbor.html. Accessed: September 30 and October 20, 2014.

Parametrix. 2013. *Wetland and Stream Site Investigation, Technical Memorandum.* Prepared for Imperium Renewables. January 1, 2013.

Phillips, R. C. 1984. *The Ecology of Eelgrass Meadows in the Pacific Northwest: A Community Profile.* FWS/OBS-84/24. U.S. Fish and Wildlife Service, Portland, OR.

Seliskar, D. M. and J. L. Gallagher. 1983. *The Ecology of Tidal Marshes of the Pacific Northwest Coast: A Community Profile*. FWS/OBS-82/32. U.S. Fish and Wildlife Service, Washington, DC.

U.S. Army Corps of Engineers. 2008. *Water Quality Monitoring Report, Grays Harbor Dredging Project*. March. Prepared by Jones & Stokes, Inc.

U.S. Army Corps of Engineers. 2014. *Grays Harbor Navigation Improvement Project Feasibility Limited Re-Evaluation Supplemental Environmental Impact Statement.*

U.S. Fish and Wildlife Service 2014a. *Trust Resources List*. Available: http://ecos.fws.gov/ipac/wizard/trustResourceList!prepare.action. Accessed: September 25, 2014.

U.S. Fish and Wildlife Service. 2014b. *Grays Harbor National Wildlife Refuge*. Available: http://www.fws.gov/refuge/Grays_Harbor/what_we_do/resource_management.html. Accessed: October 3, 2014.

Washington Department of Fish and Wildlife. 2014. *Wildlife Areas, Johns River Wildlife Area*. Available: http://wdfw.wa.gov/lands/wildlife_areas/johns_river/Oyhut/. Accessed: October 8 2014.

Washington Natural Heritage Program. 2014a. *Washington Rare Plant Species by County, Grays Harbor, Lewis, and Thurston Counties.* Available: http://www1.dnr.wa.gov/nhp/refdesk/lists/plantsxco/countyindex.html. Accessed: September 23, 2014.

Washington Natural Heritage Program. 2014b. GIS data.

Washington Natural Heritage Program. 2014c. *Reference Desk of the Washington Natural Heritage Program*. Available: http://www1.dnr.wa.gov/nhp/refdesk/communities.html. Accessed: October 3, 2014.

Washington State Department of Natural Resources. 2001.*Distribution of Kelp in Washington State.*

Washington State Department of Natural Resources. 2007. *State of Washington Natural Heritage Plan 2007*. Olympia WA. 48–51.

Washington State Department of Natural Resources. 2009. *Chehalis River Surge Plain NAP Management* Plan, Grays Harbor County, Washington. January. Prepared by Pacific Cascade Region Natural Areas Program Washington State Department of Natural Resources.

Washington State Department of Natural Resources. 2015. *Washington Marine Vegetation Atlas.* Available: http://mva.apphb.com/index.html#. Accessed: May 8, 2015.

WorleyParsons. 2014. *Rail Transportation Impact Analysis for Westway and Imperium.* April.

9.5 Section 3.5 Animals

9.5.1 Written Resources

Armstrong, D. A., K. A. McGraw, P. A. Dinnel, R. M. Thom, and O. Iribarne. 1991. *Construction Dredging Impacts on Dungeness Crab,* Cancer magister, *in Grays Harbor, Washington and*

Mitigation of Losses by Development of Intertidal Shell Habitat. Final Report to the U.S. Army Corps of Engineers, Seattle District Office, Seattle, WA. 71 p. In U.S. Army Corps of Engineers 2014.

Armstrong, D. A., C. Rooper, and D. R. Gunderson. 2003. Estuarine Production of juvenile Dungeness crab (*Cancer magister*) and contribution to the Oregon-Washington coastal fisheries. *Estuaries* 26:1174–1188. In U.S. Army Corps of Engineers 2004.

Beck and Associates.1989. *Skagit River Salmon and Steelhead Fry Stranding Studies*. Seattle, WA. Cited in Irvine et al. 2014.

BOEM. 2012. *Commercial Wind Lease Issuance and Site Assessment Activities on the Atlantic Outer Continental Shelf Offshore New Jersey, Delaware, Maryland, and Virginia*. Final Environmental Assessment. OCS EIS/EA, BOEM 2012-003. January. Available: http://www.boem.gov/uploadedFiles/BOEM/Renewable_Energy_Program/Smart_from_the_Start/Mid-Atlantic_Final_EA_012012.pdf. Accessed: December 8, 2014.

Bradford, M. J., G. C. Taylor, J. A. Allan, P. S. Higgins. 1995. An Experimental Study of the Stranding Of Juvenile Coho Salmon and Rainbow Trout during Rapid Flow Decreases Under Winter Conditions. *North American Journal of Fisheries Management* 15: 473–479. Cited in Irvine et al. 2014.

Carrasquero, J. 2001. *Over-Water Structures: Freshwater Issues*. Washington State Department of Fish and Wildlife White Paper. Report of Herrera Environmental Consultants to Washington Department of Fish and Wildlife, Washington Department of Ecology, and Washington Department of Transportation.

Carretta, James V, Karin A Forney, Erin Oleson, Karen Martien, Marcia M Muto, Mark S Lowry, Jaoy Barlow, Jason Baker, Brad Hanson, Deanna Lynch, Lilian Carswell, Robert L Brownell Jr, Jooke Robbins, David K Mattila, Katherine Ralls, and Marie C Hill. 2011. *US Pacific Marine Mammal Stock Assessments:* 2011 NOAA-TM-NMFS-SWFSC-488 Report La Jolla, CA: National Oceanic and Atmospheric Administration, National Marine Fisheries Service. In U.S. Army Corps of Engineers 2014.

Cordell, J., O. Kalata, A. Pleus, A. Newsom, K. Strieck, and G. Gertsen. 2015. *Effectiveness of Ballast Water Exchange in Protecting Puget Sound From Invasive Species: Results From WDWF/UW Ballast Water Sampling*, 2001-2014. Report to Washington Department of Fish and Wildlife, Contract 12-1212, 1–22 and 44–45.

Cunjak, R. A., T. D. Prowse, D. L. Parrish. 1998. Atlantic Salmon (*Salmo salar*) in Winter: The Season of Parr Discontent? *Canadian Journal of Fisheries and Aquatic Sciences* 55: 161–180. In Irvine et al. 2014.

Davidson, I., C. Zabin, G. Ashton, and G. Ruiz. 2014. *An Assessment of Marine Biofouling Introductions into Puget Sound Region of Washington State.* Report to the Washington Department of Fish and Wildlife and Washington Department of Natural Resources, Olympia, WA, 8–23 and 58–67.

Deschamps, G., S. G. Wright, and R. E. Watson. 1970. *Fish Migration and Distribution in the Lower Chehalis River and Upper Grays Harbor.* In Grays Harbor cooperative water quality study 1964–1966, p. 1–55. Tech. Rep. No.7. Washington Dept. Fisheries, Olympia. In U.S. Army Corps of Engineers 2014.

Ellison, W. T., B. L. Southall, C. W. Clark, and A. S. Frankel. 2012. A new context-based approach to assess marine mammal behavioral responses to anthropogenic sounds. *Conservation Biology* 26, 21–28. In Joint Working Group on Vessel Strikes and Acoustic Impacts 2012.

Emmett, R. L., S. A. Hinton, S. L. Stone, and M. E. Monaco. 1991. *Distribution and Abundance of Fishes and Invertebrates in West Coast Estuaries,* Volume II: Species Life History Summaries. ELMR Report No. 8 Strategic Assessment Branch, NOS/NOAA. Rockville, MD. 329 p. In U.S. Army Corps of Engineers 2014.

Environmental Protection Information Center, Center for Biological Diversity, and Waterkeepers Northern California. 2001. Petition to list the North American green sturgeon (*Acipenser medirostris*) as an endangered or threatened species under the endangered species act. June. Available: http://www.biologicaldiversity.org/species/fish/North_American_green_sturgeon/pdfs/PETITION.PDF. In U.S. Army Corps of Engineers 2014.

Flory, E. 2008. *Eulachon Distribution in the Taku River, Juneau, Alaska, 2008.* Aquatic Science Inc., Juneau. Available: http://dnr.alaska.gov/mlw/mining/largemine/tulsequah/pdf2/eulachon2tuls.pdf. In U.S. Army Corps of Engineers 2014.

Green, J., D. Loft, and R. Lehr. 2009. *State-of-the-River Report for the Chehalis River Basin, 2006–2009; A Water Quality Study*. Grays Harbor College, Aberdeen, WA. In U.S. Army Corps of Engineers 2014.

Gustafson, R. G., M. J. Ford, D. Teel, and J. S. Drake. 2010*. Status Review of Eulachon* (Thaleichthys pacificus) *in Washington, Oregon, and California*. Memo NMFS_NWFSC-105. Seattle, WA. Prepared by Department of Commerce, NOAA Technical Information Service. In U.S. Army Corps of Engineers 2014.

Hay, D. and P. B. McCarter. 2000. *Status of the Eulachon* Thaleichthys pacificus *In Canada*. Canadian Stock Assessment Secretariat Research Document 2000/145. In U.S. Army Corps of Engineers 2014.

Holsman, K. K., P. S. McDonald, and D. A. Armstrong. 2006. Intertidal Migration and Habitat Use by Subadult Dungeness Crab *Cancer magister* in a NE Pacific Estuary. *Marine Ecology Progress Series* 308(1):183195.

Ibrahim, A. M. and M. M. A. El-Naggar. 2012. Ballast Water Review: Impacts, Treatments, and Management. *Middle-East Journal of Scientific Research*. 12(7): 976–984.

Irvine, R. L. J. L. Thorley. R. Westcott. D. Schmidt, and D. Derosa. 2014. *Why Do Fish Strand? An Analysis of Ten Years of Flow Reduction Monitoring Data From the Columbia and Kootenay Rivers, Canada.* River Research and Applications. Wiley Online Library. August 15. Available: http://onlinelibrary.wiley.com/doi/10.1002/rra.2823/pdf. Accessed: December 15, 2014.

Jeffries, S. J., P. J. Gearin, H. R. Huber, D. L. Saul, and D. A. Pruett. 2000. *Atlas of Seal and Sea Lion Haulout Sites in Washington.* Washington Department of Fish and Wildlife, Wildlife Science Division, Olympia, WA.

Joint Working Group on Vessel Strikes and Acoustic Impacts. 2012. *Vessel Strikes and Acoustic Impacts.* Report of a Joint Working Group of Gulf of the Farallones and Cordell Bank National

Marine Sanctuaries Advisory Councils. San Francisco, CA. Available: http://sanctuaries.noaa.gov/protect/shipstrike/pdfs/strikes_acoustic.pdf. Accessed: December 8, 2014.

Korman, J. and S. E. Campana. 2009. Effects of Hydropeaking on Nearshore Habitat Use and Growth of Age-0 Rainbow Trout in a Large Regulated River. *Transactions of the American Fisheries Society* 138: 76–87. doi: 10.1577/T08-026.1. In Irvine et al. 2014.

Larsen, E., J. M. Azerrad, and N. Nordstrom (Eds.). 2004. *Management Recommendations for Washington's Priority Species*. Volume IV: Birds. Revised 2012. Washington Department of Fish and Wildlife, Olympia, WA.

Lewis, A. F. J., M. D. McGurk, and M. G. Galesloot. 2002. *Alcan's Kemano River Eulachon (*Thaleichthys pacificus*) Monitoring Program 1988–1998*. Consultant report prepared by Ecofish Research Ltd. for Alcan Primary Metal Ltd., Kitimat, B.C. In U.S. Army Corps of Engineers 2014.

Lindley, S. T., D. L. Erickson, M. L. Moser, G. Williams, O. P. Langness, B. W. McCovey Jr, M. Belchik, D. Vogel, W. Pinnix, J. T. Kelly, J. C. Heublein, and A. P. Klimley. 2011. Electronic Tagging of Green Sturgeon Reveals Population Structure and Movement Among Estuaries. *Transactions of the American Fisheries Society* 140(1):108–122. In U.S. Army Corps of Engineers 2014.

Marine Invasions Research Laboratory. 2012. *Zooplankton Community Dynamics: Ballast Water Transport As A Taxonomic And Numeric Filter*. Available: http://www.serc.si.edu/labs/marine_invasions/vector_ecology/zoo_population.aspx. Accessed: May 12, 2015.

Marine Mammal Commission. 2007. *Marine Mammals and Noise: A Sound Approach to Research and Management*. A Report to Congress from the Marine Mammal Commission. March. Available: http://www.mmc.gov/reports/workshop/pdf/fullsoundreport.pdf. Accessed: December 8, 2014.

McCarter, P. B. and D. Hay. 2003. Eulachon Embryonic Egg and Larval Outdrift Sampling Manual for Ocean and River Surveys. *Canadian Technical Report of Fisheries and Aquatic Sciences 2451*. In U.S. Army Corps of Engineers 2014.

Minton, M. S., E. Verling, A. W. Miller, and G. Ruiz. 2005. Reducing Propagule Supply and Coastal Invasions Via Ships: Effect of Emerging Strategies. *Frontiers in Ecology and the Environment*. 3(6): 304–308.

Moser, M. L., A. F. Olson, and T. P. Quinn. 1991. Riverine and Estuarine Migratory Behavior of Coho Salmon (*Oncorhynchus kisutch*) Smolts. *Canadian Journal of Fisheries and Aquatic Sciences* 48: 1670–1678. In U.S. Army Corps of Engineers 2014.

National Marine Fisheries Service. 2005. *Green Sturgeon (*Acipenser medirostris*) Status Review Update.* Silver Spring, MD. In U.S. Army Corps of Engineers 2014.

National Marine Fisheries Service. 2009. Endangered Species Act – Section 7 Programmatic Consultation Biological and Conference Opinion and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Consultation. U.S. Army Corps of Engineers Nationwide Permit 48 Washington. NMFS Tracking Number: 2008/04151. April 28, 2009. In U.S. Army Corps of Engineers 2014.

National Oceanic and Atmospheric Administration. 2008a. *Differentiating Serious and Non-Serious Injury to Marine Mammals: Report of the Serious Injury Technical Workshop*, 10-13 September 2007, Seattle, WA. NOAA Technical Memorandum NMFS-OPR-39. September. Available: http://www.nmfs.noaa.gov/pr/pdfs/interactions/serious_injury_techmemo2008.pdf.Accessed: December 8, 2014.

National Oceanic and Atmospheric Administration. 2008b. *Sound Exposure and Southern Resident Killer Whales (*Orcinus orca*): A Review of Current Knowledge and Data Gaps.* U.S. Dept. Commer., NOAA Tech. Memo. NMFS-NWFSC-89.

National Oceanic and Atmospheric Administration. 2014a. ESA-Listed Marine Mammals. NOAA Fisheries West Coast Region. Available: http://www.westcoast.fisheries.noaa.gov/protected_species/marine_mammals/esa.html. Accessed: September 17, 2014.

National Oceanic and Atmospheric Administration. 2014b. Other ESA-Listed Species. NOAA Fisheries West Coast Region. Available: http://www.westcoast.fisheries.noaa.gov/protected_species/species_list/other_esa_listed_species_wc.html. Accessed: September 17, 2014.

National Oceanic and Atmospheric Administration. 2014c. ESA-Listed Marine Turtles. NOAA Fisheries West Coast Region. Available: http://www.westcoast.fisheries.noaa.gov/protected_species/sea_turtles/esa_listed_marine_turtles.html. Accessed: September 17, 2014.

Northwest Area Committee. 2013. *Grays Harbor Geographic Response Plan*. December. Prepared by Washington State Department of Ecology.

Oregon Department of Transportation. 2000. *Peregrine Falcon Management Plan 2002-2007*. December. Salem, OR. Prepared for Oregon Department of Transportation Environmental Services by Mason, Bruce and Girard, Inc., Portland, OR.

Pacific Fishery Management Council. 2011a. *The Coastal Pelagic Species Fishery Management Plan.* Pacific Fishery Management Council. Portland, OR. In U.S. Army Corps of Engineers 2014.

Pacific Fishery Management Council. 2011b. *Pacific Coast Groundfish Fishery Management Plan for the California, Oregon, and Washington Groundfish Fishery.* Pacific Fishery Management Council. Portland, OR. In U.S. Army Corps of Engineers 2014.

Pearson, S. F., M. G Raphael, M. M Lance, and T. D. Bloxton, Jr. 2011. *2010 Washington At-Sea Marbled Murrelet Population Monitoring: Research Progress Report*. February. Olympia, WA Prepared by Washington Department of Fish and Wildlife, Wildlife Program Science Division and USDA Forest Service, Pacific Northwest Research Station.

Richardson, W. J., C. R. Greene, Jr., C. I. Malme, and D. H. Thomson. 1995. *Marine Mammals and Noise.* Academic Press, San Diego, CA. In BOEM 2012.

Ruiz, G. and G. Smith. 2005. *Final Report: Biological Study of Container Vessels at the Port of Oakland.* Report to Port of Oakland. Submitted by Smithsonian Environmental Research Center, Edgewater, MD, 1–13.

Sandell, T., A. McAninch, and M. Wait. 2011. *Grays Harbor Juvenile Fish Use Assessment, RCO #10-1412P Literature Review, Habitat Inventory, and Study Plan*. Prepared for the Chehalis Basin Habitat Work Group and the Salmon Recovery Funding Board Technical Review Panel. January. In U.S. Army Corps of Engineers 2014.

Scott, W. B. and E. J. Crossman. 1973. Freshwater Fishes of Canada. *Fisheries Research Board of Canada Bulletin* 184. In U.S. Army Corps of Engineers 2014.

Scruton D. A, C. Pennell, L. M. N. Ollerhead, K. Alfredsen, M. Stickler, A. Harby, M. Robertson, K. D. Clarke, and L. J. LeDrew. 2008. A Synopsis of "Hydropeaking" Studies on the Response Of Juvenile Atlantic Salmon to Experimental Flow Alteration. *Hydrobiologia* 609: 263–275. In Irvine et al. 2014.

Shreffler, D. K., and R. A. Moursund. 1999. *Impacts of Ferry Terminals on Juvenile Salmon Migrating Along Puget Sound Shorelines. Phase II: Field Studies At Port Townsend Ferry Terminal.* WA-RD 480.1, GCA-1723. Prepared for Washington State Transportation Center (TRAC), Seattle, Washington.

Simenstad, C. A. and D. M. Eggers. 1981. *Juvenile Salmonid and Baitfish Distribution, Abundance, and Prey Resources in Selected Areas of Grays Harbor, Washington*. August. DACW 67-80-C-0102 Prepared for the U.S. Army Corps of Engineers by University of Washington Fisheries Research Institute, Seattle, WA. In U.S. Army Corps of Engineers 2014.

Simenstad. C. A., B. J. Nightingale, R. M. Thom, and D. K. Shreffler. 1999. *Impacts of Ferry erminals on Juvenile Salmon Migrating Along Puget Sound Shorelines. Phase I: Synthesis of State of Knowledge.* Prepared for Washington State Transportation Commission and U.S. Department of Transportation, Federal Highway Administration. June.

Simenstad, C. A., A. J. Wick, J. R. Cordell, R. M. Thom, and G. D. Williams. 2001. *Decadal Development of a Created Slough in the Chehalis River Estuary: Year 2000 Results.* Report to U.S. Army Corps of Engineers, Seattle District, SAFS-UW-0110, School Fish and Aquatic Sciences, Univ. Washington, Seattle. In U.S. Army Corps of Engineers 2014.

Spangler, E. A. K. 2002. *The Ecology of Eulachon (*Thaleichthys pacificus*) in Twentymile River, Alaska*. M.S. Thesis. Fairbanks: University of Alaska. In U.S. Army Corps of Engineers 2014.

Speich, S. M. and T. R. Wahl. 1995. Chapter 30: *Marbled Murrelet Population of Washington—Marine Habitat Preferences and Variability of Occurrenc*e Pst-152 Prepared by USDA Forest Service Gen Tech. In U.S. Army Corps of Engineers 2014.

Taylor, M. K., K. V. Cook, C. T. Hasler, D. C. Schmidt, and S. J. Cooke. 2012. Behaviour and Physiology of Mountain Whitefish (*Prosopium williamsoni*) Relative to Short-Term Changes in River Flow. *Ecology of Freshwater Fish* 21: 609–616. doi: 10.1111/j.1600-0633.2012.00582.x. In Irvine et al. 2014.

Tokar, E. M., R. Tollefson, and J. G. Denison. 1970. *Grays Harbor: Downstream Migrant Salmonid Study*. p. 93. Shelton, WA: ITT-Rayonier, Inc. Olympic Research Division. In U.S. Army Corps of Engineers 2014.

U.S. Army Corp of Engineers. 2006. *A Study of Stranding of Juvenile Salmon by Ship Wakes Along the Lower Columbia River Using a Before-and-After Design: Before-Phase Results*. Portland District. Portland, OR. Available:

http://www.pnl.gov/main/publications/external/technical_reports/PNNL-15400.pdf. Accessed: December 15, 2014.

U.S. Army Corp of Engineers2014. Appendix of the *Draft Supplemental Environmental Impact Statement for the Grays Harbor, Washington Navigation Improvement Project General Investigation Feasibility Study.* Seattle Corps District. January. Available: http://www.nws.usace.army.mil/Portals/27/docs/civilworks/navigation/Appendix%20C%20-%20Draft%20Supplemental%20Environmental%20Impact%20Statement.pdf. Accessed: January 8, 2015.

U.S. Fish and Wildlife Service. 2007*. Bald Eagle* Haliaeetus leucocephalus. USFWS Endangered Species Program. 4401 N. Fairfax Drive, Room 420. Arlington, VA.

U.S. Fish and Wildlife Service. 2014a. IPaC – Information, Planning, and Conservation System. *Trust Resources List for Grays Harbor County*. Available: http://ecos.fws.gov/ipac/. Accessed: September 25, 2014.

U.S. Fish and Wildlife Service. . 2014b. *About the Refuge – Grays Harbor*. USFWS National Wildlife Refuge. Available: http://www.fws.gov/refuge/Grays_Harbor/about.html Accessed: October 3, 2014.

U.S. Fish and Wildlife Service. 2014c. *Estuary – Grays Harbor*. USFWS National Wildlife Refuge. Available: http://www.fws.gov/refuge/Grays_Harbor/Wildlife_and_Habitat/estuary.html Accessed: October 13, 2014.

U.S. Fish and Wildlife Service. 2014d. *Draft Recovery Plan for the Coastal-Puget Sound Distinct Population Segment of Bull Trout (*Salvelinus confluentus) – Volume II (of II) – Olympic Population Management Unit. 297 pp. In U.S. Corps of Engineers 2014.

U.S. Fish and Wildlife Service. 2014e. *Grays Harbor Navigation Improvement Project*, Grays Harbor, Washington Fish and Wildlife Coordination Act Report. Lacey, WA. Prepared for the U.S. Army Corps of Engineers, Seattle District, Seattle, WA, and Port of Grays Harbor, Aberdeen and Hoquiam, WA.

U.S. Fish and Wildlife Service. 2014f. *Seasons of Wildlife – Grays Harbor*. USFWS National Wildlife Refuge. Available: http://www.fws.gov/refuge/Grays_Harbor/seasons_of_wildlife/ Accessed: October 3, 2014.

U.S. Fish and Wildlife Service. 2014g. *Western Snowy Plover Species Profile*. USFWS California and Nevada Operations, Region 8. Available: http://www.fws.gov/arcata/es/birds/wsp/plover.html Accessed: October 30, 2014.

U.S. Fish and Wildlife Service. 2014h. *Streaked Horned Lark Species Fact Sheet*. USFWS Pacific Region. Available: http://www.fws.gov/oregonfwo/species/Data/StreakedHornedLark/ Accessed: November 7, 2014.

University of Rhode Island. 2013. *DOSITS (Discovery of Sound in the Sea): Anthropogenic Sounds—Ships.* Available: http://www.dosits.org/audio/anthropogenicsounds/ship/ Accessed: December 8, 2014.

Vehanen, T., P. L. Bjerke, J. Heggenes, A. Huusko, and A. Mäki–Petäys. 2000. Effect of Fluctuating Flow and Temperature on Cover Type Selection and Behaviour by Juvenile Brown Trout in Artificial Flumes. *Journal of Fish Biology* 56: 923–937. In Irvine et al. 2014.

Verling, E., G. Ruiz, L. Smith, B. Galil, A. W. Miller, and K. Murphy. 2005. *Supply-Side Invasion Ecology: Characterizing Propagule Pressure in Coastal Ecosystems*. Proceedings of the Royal Society B. 272: 1249–1257.

Washington Department of Fish and Wildlife. undated. *Pacific Herring Information Summary.*

Washington Department of Fish and Wildlife. 2013. *Threatened and Endangered Wildlife in Washington: 2012 Annual Report.* Listing and Recovery Section, Wildlife Program, Washington Department of Fish and Wildlife, Olympia.

Washington Department of Fish and Wildlife. 2014a. *Priority and Habitat Species Data.* 2014. Geospatial database. Available: http://wdfw.wa.gov/conservation/phs/.

Washington Department of Fish and Wildlife. 2014b. *Coastal Commercial Dungeness Crab Fishery – Washington State Non-Treaty Coastal Commercial Dungeness Crab Landings By Catch Reporting Area*. Available: http://wdfw.wa.gov/fishing/commercial/crab/coastal/landings.html Accessed May 1, 2015.

Washington Department of Fish and Wildlife. 2015. *Ballast Water Program*. Available: http://wdfw.wa.gov/ais/ballast/. Accessed: May 12, 2015.

Washington Department of Fish and Wildlife and Oregon Department of Fish and Wildlife. 2001. *Washington And Oregon Eulachon Management Plan*. Available: http://wdfw.wa.gov/fish/creel/smelt/wa-ore_eulachonmgmt.pdf. Accessed: June 2008. In U.S. Army Corps of Engineers 2014.

Washington Natural Heritage Program. 2014. Geographic Information System. WNHP Data Set User Guide and Data Dictionary. April. Olympia, WA: Washington Department of Natural Resources, Natural Heritage Program.

Washington State Department of Natural Resources. 2009. *Chehalis River Surge Plain NAP Management Plan*, Grays Harbor County, Washington. January 2009. Prepared by Pacific Cascade Region Natural Areas Program Washington State Department of Natural Resources. 38 pages plus appendices.

Washington State Department of Natural Resources. 2015a. *Whitcomb Flats Natural Area Preserve.* Available: http://www.dnr.wa.gov/AboutDNR/ManagedLands/Pages/amp_na_whitcomb.aspx Accessed: April 7, 2015.

Washington State Department of Natural Resources. 2015b. *North Bay Natural Area Preserve.* Available: http://www.dnr.wa.gov/AboutDNR/ManagedLands/Pages/amp_na_north_bay.aspx Accessed: April 7, 2015.

Washington State Department of Natural Resources. 2015c. *Goose Island Natural Area Preserve.* Available: http://www.dnr.wa.gov/AboutDNR/ManagedLands/Pages/amp_na_goose.aspx Accessed: April 7, 2015.

Washington State Department of Natural Resources. 2015d. *Sand Island Natural Area Preserve.* Available: http://www.dnr.wa.gov/AboutDNR/ManagedLands/Pages/amp_na_sand.aspx Accessed: April 7, 2015.

Washington State Department of Natural Resources. 2015e. *Elk River Natural Resource Conservation Area.* Available: http://www.dnr.wa.gov/AboutDNR/ManagedLands/Pages/amp_na_elk.aspx Accessed May 1, 2015.

Wells, R. S. and M. D. Scott. 1997. Seasonal Incidence of Boat Strikes on Bottlenose Dolphins near Sarasota, Florida. *Marine Mammal Science* 13(3): 475–480. In National Oceanic and Atmospheric Administration 2008a.

Willson, M. F., R. H. Armstrong, M. C. Hermans, and K Koski. 2006*. Eulachon: A Review of Biology and an Annotated Bibliography*. Alaska Fisheries Science Center Processed Report 2006-12. Auke Bay Laboratory, Alaska Fish. Sci. Cent., NOAA, Natl. Mar, Fish. Serv., Juneau, AK. Available: http://www.afsc.noaa.gov/publications/ProcRpt/PR%202006-12.pd>. Accessed: March 2008. In U.S. Army Corps of Engineers 2014.

WorleyParsons. 2014. *Vessel Traffic Impact Analysis for Imperium and Westway.* April 21.

Wright, A. J. 2008. International Workshop on Shipping Noise and Marine Mammals, Hamburg, Germany, April 21–24, 2008. Okeanos – Foundation for the Sea, Auf der Marienhohe 15, D-64297 Darmstadt. Available: http://www.okeanos-foundation.org/assets/Uploads/Hamburg-shipping-report-2.pdf. Accessed: December 8, 2014.

9.5.2 Personal Communications

Bilhimer, Dustin.Chehalis River Watershed TMDL Lead, Washington State Department of Ecology, Southwest Regional Office. Lacey, Washington. October 3, 2014—Email to Diane Butorac, Washington State Department of Ecology, regarding water bodies for evaluation in the Westway and Imperium EISs.

Jorgensen, Jim. Fisheries Biologist. Quinault Indian Nation. August 10, 2010—Email to Margaret Kucharski, WSDOT Environmental Lead. In U.S. Army Corps of Engineers 2014.

9.6 Section 3.6 Energy and Natural Resources

9.6.1 Written Resources

Grays Harbor Public Utility District. 2014. *Integrated Resource Plan.* Grays Harbor PUD. September 2.

Pacific Northwest Utilities Conference Committee. 2014. *Northwest Regional Forecast of Power Loads and Resources – 2015 through 2024*. PNUCC. March. Available: http://www.pnucc.org/sites/default/files/file-uploads/2014%20Northwest%20Regional%20Forecast.pdf. Accessed December 2014.

Trinity Consultants. 2014. Hoquiam Terminal Crude by Rail Project NOC Application. Prepared for Westway Terminal Company, LLC. Project 144801.0049. November 2014.

U.S. Energy Information Administration. 2015. *Washington Sales of Distillate Fuel Oil by End Use*. January 15. Available: http://www.eia.gov/dnav/pet/pet_cons_821dst_a_EPD0_VTE_Mgal_a.htm. Accessed: July 13, 2015. Accessed: April 13, 2015.

9.6.2 Personal Communications

Shoemake, Ken [a]. HSEQ Senior Manager. Westway Group, LLC. December 1, 2014—Email to Deborah Bartley, ICF International, regarding existing and proposed energy and fuel usage.

Shoemake, Ken [b]. HSEQ Senior Manager. Westway Group, LLC. August 27, 2014—Email to Kim Marcotte, ICF International, regarding data requests.

Shoemake, Ken [c]. HSEQ Senior Manager. Westway Group, LLC. April 23, 2015—Email to Deborah Bartley, ICF International, regarding data requests.

9.7 Section 3.7 Noise and Vibration

9.7.1 Written Resources

European Commission. 2013. *European Commission Technical Requirements for Inland Waterway Vessels*. Article 8.10.

Federal Railroad Administration. 2012. *High Speed Ground Transportation Noise and Vibration Assessment*. HMMH Report No. 293630-4. Prepared by the Office of Railroad Development. Available: https://www.fra.dot.gov/eLib/Details/L04090.

Federal Transit Administration. 2006. *Transit Noise and Vibration Impact Assessment*. FTA-VA-90-1003-06. Prepared by the Office of Planning and Environment. May, 2006.

9.8 Section 3.8 Land and Shoreline Use

9.8.1 Written Resources

City of Aberdeen. 2001. *Comprehensive Land Use Plan.* Available: http://aberdeenwa.gov/pdf/2001_comp_plan.pdf. Accessed: September 8, 2014.

City of Hoquiam. 2009. *Comprehensive Land Use Plan.* Available: http://cityofhoquiam.com/pdf/lup.pdf. Accessed: September 8, 2014.

Greater Grays Harbor Inc. 2014. *Manufacturing and Resources.* Available: http://www.graysharbor.org/business/manufacturing-resources.php. Accessed: October 12, 2014.

9.9 Section 3.9 Aesthetics, Light, and Glare

9.9.1 Written Resources

Bureau of Land Management. 1980. *Visual Resource Management Program* (Stock No. 024-001-00116-6.) Washington, DC: U.S. Government Printing Office.

Federal Highway Administration. 1988. *Visual Impact Assessment for Highway Projects.* (FHWA-HI-88-054.) USDOT (US Department of Transportation).

Jones, G. R., J. Jones, B. A. Gray, B. Parker, J. C. Coe, J. B. Burnham, and N. M. Geitner. 1975. *A Method for the Quantification of Aesthetic Values for Environmental Decision Making*. Nuclear Technology 25(4): 682–713.

Litton, R. Burton, Jr. 1968. *Forest Landscape Description and Inventories – A Basis for Land Planning and Design*. (U.S. Department of Agriculture Forest Service Research Paper PSW-49) Pacific Southwest Forest and Range Experiment Station. Berkeley, CA.

U.S. Forest Service. 1995. *Landscape Aesthetics: A Handbook For Scenery Management.* (Agriculture Handbook Number 701).

U.S. Soil Conservation Service. 1978. *Procedure to Establish Priorities in Landscape Architecture* (Technical Release No. 65). Washington, DC.

Washington State Department of Transportation. 2014a. *Pacific Coast Scenic Byway*. Available: http://www.wsdot.wa.gov/LocalPrograms/ScenicByways/PacificCoast.htm. Accessed: October 13, 2014.

Washington State Department of Transportation. 2014b. *Washington State's Scenic Byways & Road Trips*. Available: ftp://ftp.wsdot.wa.gov/public/LocalPrograms/ScenicHighways/ScenicByways_TravelPlanner.pdf. Accessed: October 13, 2014.

Washington State Department of Transportation. 2014c. Washington State Scenic Byways Map. Available: http://www.wsdot.wa.gov/NR/rdonlyres/24187DE9-0785-4A13-B013-41DE5A130B5F/0/ScenicBywaysMap_small.pdf. Accessed: October 13, 2014.

Washington State Department of Transportation. 2014d. *Hidden Coast Scenic Byway*. Available: http://www.wsdot.wa.gov/LocalPrograms/ScenicByways/HiddenCoast.htm. Accessed: October 13, 2014.

9.10 Section 3.10 Recreation

9.10.1 Written Resources

City of Aberdeen. 2011. *Comprehensive Parks and Recreation Plan 2011-2016*. Available: http://aberdeenwa.gov/wp-content/uploads/comprehensive-parks-plan.pdf. Accessed: September 12, 2014.

Grays Harbor Chamber of Commerce.2000. *Grays Harbor Online.* Available: http://ghonline.com/boatlaunches/index.html#.VU-orJPfqpo. Accessed: May 19, 2015.

Hiss, J. M. and E. E. Knudsen 1993. *Chehalis River Basin Fishery Resources: Status, Trends, and Restoration*. July. U.S. Fish and Wildlife Service, Western Washington Fishery Resource Office. Olympia. Available: http://www.fws.gov/wafwo/fisheries/Publications/FP069exsum_ch1-2.pdf. Accessed: May 2015.

Port of Grays Harbor. 2011. *Around the Docks, Issue 9, Volume 5*. Available: http://www.portofgraysharbor.com/downloads/newsletters/PGH_Newsletter_2011-09-10.pdf. Accessed: September 8, 2014.

Shorebird Festival. 2015. *Grays Harbor Shorebird and Nature Festival.* March. Available: http://www.shorebirdfestival.com/index.html. Accessed: May 19, 2015.

U.S. Fish and Wildlife Service. 2012. *Grays Harbor National Wildlife Refuge*. Available: http://www.fws.gov/refuges/profiles/index.cfm?id=13534. Accessed: September 8, 2014.

Washington Department of Fish and Wildlife. 2015a. *Fishing & Shellfishing. Grays Harbor.* Available: http://wdfw.wa.gov/fishing/washington/MarineArea/10022/. Accessed: May 19, 2015.

Washington Department of Fish and Wildlife. 2015b. *Fishing & Shellfishing. Razor Clams.* Available: http://wdfw.wa.gov/fishing/shellfish/razorclams/. Accessed: May 19, 2015.

Washington Department of Fish and Wildlife. 2015c. *Fishing & Shellfishing. Recreational Crab Fishing.* Available: http://wdfw.wa.gov/fishing/shellfish/crab/area.php?id=5. Accessed: May 19, 2015.

WorleyParsons. 2014. *Rail Transportation Impact Analysis for Westway and Imperium.* April.

9.10.2 Personal Communications

Scharpf, Mike. District 17 Fish Biologist, Region 6. Montesano. Washington Department of Fish and Wildlife. March 24, 2015—Summary of commercial and recreational fisheries in Grays Harbor and the Chehalis River provided to Diane Butorac, Washington State Department of Ecology.

9.11 Section 3.11 Historic and Cultural Preservation

9.11.1 Written Resources

Boersema, Jana. 2013. *A Cultural Resources Assessment and Survey of the Westway Grays Harbor Terminal Expansion Project, Grays Harbor County, Washington*. Prepared for Westway Group, LLC. Seattle, WA: Cascadia Archaeology, December 23. On file at DAHP.

Carlson. 1990. Cultural Antecedents. In *The Northwest Coast, Handbook of North American Indians*, *Volume 7.* Wayne Suttles and William Sturtevant (Eds.). Smithsonian Institution, Washington, DC.

Curtis, E. 1913. *The North American Indian: Being a Series of Volumes Picturing and Describing the Indians of the United States, the Dominion of Canada, and Alaska*, Volume 9. Norwood, MA: The Plimpton Press.

Gibbs, G. 1877. Tribes of Western Washington and Northwestern Oregon. *Contributions to North American Ethnology* 1:157–241.

Hajda, Y. 1990. Southwestern Coast Salish. In *The Northwest Coast, Handbook of North American Indians, Volume 7*, Wayne Suttles (ed.):503–517. Washington, DC: Smithsonian Institution.

Heller, E. W. and D. S. Phelps. 2014. *Geotechnical Consultation, Imperium Bulk Liquid Facility Expansion Project, Hoquiam, Washington*. File No. 20516-001-00. Prepared for Imperium Renewables, Inc.

James, K. and V. Martino. 1986. *Grays Harbor and Native Americans*. Prepared as part of Contract No. DACW67-85-M-0093. Seattle, WA: U.S. Army Corps of Engineers District.

Matson, R. G. and G. Coupland. 1995. *The Prehistory of the Northwest Coast.* San Diego, CA: Academic Press.

Miller, J. 2009. *Ethnography Technical Memorandum, Pontoon Construction Project, SR 520 Bridge Replacement and HOV Program.* Prepared for Washington State Department of Transportation, Olympia, WA, and the Federal Highway Administration.

Ott, Jennifer. 2010. *Port of Grays Harbor Becomes Washington's Second Public Port on December 12, 1911*. *HistoryLink.org* Essay 9390. April 08, 2010. Available: http://www.historylink.org/index.cfm?DisplayPage=output.cfm&file_id=9390, accessed December 2014.

Phipps, J. 2010 Appendix D. *Geological Coring Study. SR 520 Pontoon Construction Project Draft Environmental Impact Statement, Cultural Resources Discipline Report*. In L S. Schneyder, C. Hetzel, and T. Barrett. Prepared for Washington State Department of Transportation and the Federal Highway Administration. Report on-file at the Washington Department of Archaeology and Historic Preservation.

Schneyder, S., C. Hetzel, T. Barrett, J. T. Elder, K. Perkins, M. Cascella, and M. Mullaley. 2010. *SR 520 Pontoon Construction Project Environmental Impact Statement Cultural Resources Discipline Report*. Prepared for the Washington State Department of Transportation. On file at DAHP, Olympia, WA.

U. S. Army Corps of Engineers. 1978a. *Grays Harbor and Chehalis River Navigation Project, Maintenance and Operations. Final Environmental Impact Statement*. Seattle, WA: U. S. Army Corps of Engineers, Seattle District.

U. S. Army Corps of Engineers. 1978b. Terminal No. 2 Project. *Supplemental Environmental Impact Statement*. Seattle, WA: U. S. Army Corps of Engineers, Seattle District. May.

U. S. Army Corps of Engineers.. 1989. *Final Environmental Impact Statement Supplement 1: Grays Harbor Navigation Improvement Project*. Seattle, WA: U.S. Army Corp of Engineers, Seattle District.

U. S. General Land Office. 1860a. General Land Office Map, Township17 North, 9 Range West, Willamette Meridian. Available: www.blm.gov/or/landrecords/survey/ySrvy1.php. Accessed November 2014.

U. S. General Land Office. 1860b. General Land Office Map, Township17 North, 10 Range West, Willamette Meridian. Available: www.blm.gov/or/landrecords/survey/ySrvy1.php. Accessed November 2014.

Van Syckle, E. 1982 *The River Pioneers: Early Days on Grays Harbor*. Seattle, WA: Pacific Search.

Welsh, W. D. 1942. *A Brief Historical Sketch of Grays Harbor, Washington*. Produced from the Manuscript of Ed. Van Syckle. Presented by the Chambers of Commerce of Hoquiam and Aberdeen, Washington. Rayonier Incorporated.

Wessen, G. 1984. *A Report of Preliminary Archaeological Investigations at 45CA201: A Second Terrace Shell Midden Near Sand Point, Olympic National Park, Washington*. Report on file with the Division of Cultural Resources, Pacific Northwest Region, National Park Service, Seattle, WA.

Wessen, G. 1990. Prehistory of the Ocean Coast of Washington. In *The Northwest Coast, Handbook of North American Indians*. Volume 7. Wayne Suttles and William Sturtevant (eds.). Smithsonian Institution, Washington, DC.

9.12 Section 3.12 Tribal Resources

9.12.1 Written Resources

Bureau of Indian Affairs. 2010. *Labor Force Report*. Chehalis Tribe, 2015. Available: http://www.chehalistribe.org/

Chehalis Tribe. 2015. *The Chehalis Tribe.* Available: http://www.chehalistribe.org/.

Columbia Inter-Tribal Fish Commission, Northwest Indian Fisheries Commission (Washington), Chippewa Ottawa Resource Authority, 1854 Treaty Authority, and Great Lakes Indian Fish & Wildlife Commission. 2013. *Treaty Rights: Sustaining a Way of Life – The Role of Treaty Tribes and Intertribal Treaty Commissions in the Great Lakes and Pacific Northwest.* Available: https://books.google.com/books/about/Treaty_Rights.html?id=M_iGoAEACAAJ&hl=en.

Curtis, E. 1913. *The North American Indian: Being a Series of Volumes Picturing and Describing the Indians of the United States, the Dominion of Canada, and Alaska*, Volume 9. Norwood, MA: The Plimpton Press.

EarthJustice. 2013. Letter regarding Westway Terminal Tank Farm Expansion: Mitigation Determination of No-Significance. Directed to City of Hoquiam and Washington State Department of Ecology. April 17. Available: http://earthjustice.org/sites/default/files/2525WestwayMDNScomments4-17-13.pdf.

Gibbs, G. 1877. Tribes of Western Washington and Northwestern Oregon. *Contributions to North American Ethnology* 1:157–241.

Goodell, Jr., Larry. 2015a. Exhibit A. Map of Dungeness crab grounds fished. Letter to Maia Bellon, Washington State Department of Ecology. May 20.

Goodell, Jr., Larry. 2015b. Exhibit B. Map of marine fishing grounds fished. Letter to Maia Bellon, Washington State Department of Ecology. May 20.

Hajda, Y. 1990. Southwestern Coast Salish. In *Northwest Coast, Handbook of North American Indians, Volume 7.* Suttles and Sturtevant (Eds.). 503–517. Washington, DC: Smithsonian Institution.

Hinch, S. G. and P. S. Rand. 2000. Optimal Swimming Speeds and Forward-Assisted Propulsion: Energy-Conserving Behaviours of Upriver-Migrating Adult Salmon*. Canadian Journal of Fisheries and Aquatic Science.* 57: 2470–2478.

Hughes, N. 2004. The Wave-Drag Hypothesis: An Explanation for Size-Based Lateral Segregation during the Upstream Migration of Salmonids. *Canadian Journal of Fisheries and Aquatic Science.* 61: 103–109.

James, K. and V. Martino. 1986. *Grays Harbor and Native Americans.* Prepared for the U.S. Army Corps of Engineers, Seattle District.

Jones, J. M. 2012. Quinault Basketry. In: Wray, J. (Ed.).*Hands of a Weaver: Olympic Peninsula Basketry Through Time*. Norman, OK: University of Oklahoma Press. 78–91.

Northwest Indian Fisheries Commission. 2015. Website. Available: http://access.nwifc.org/tribes/documents/TreatyofOlympia.pdf.

Pacific Fishery Management Council. 2014. *Groundfish: Background*. Available: http://www.pcouncil.org/.

Quinault Indian Nation. 2014a. *Quinault Indian Nation website*. Available: http://www.quinaultindiannation.com/. Accessed: December 30,2014.

Quinault Indian Nation. 2014b. *2014-15 Seasonal Crab Regulation*. Pacific Ocean Commercial crab. http://www.quinaultindiannation.com/Fishing%20Regs/ocean%20commercial%20crab.pdf.

Quinault Indian Nation. 2014c. *2014-15 Seasonal Regulation*. Grays Harbor Ceremonial and Subsistence Crab. Available: http://www.quinaultindiannation.com/Fishing%20Regs/gh%20subsistence%20crab.pdf.

Quinault Indian Nation. 2015. *Exhibit E, Fishing Impact Video*. Letter to Maia Bellon, Washington State Department of Ecology. May 20.

Quinn, T. P. 2005. *The Behaviour and Ecology of Pacific Salmon and Trout.* Bethesda, MD: American Fisheries Society.

Resource Dimensions. 2015. *Economic Impacts of Crude Oil Transport on the Quinault Indian Nation and the Local Economy.* April.

Storm, J. M. and P. K. Capoeman. 1990. *Land of the Quinault.* Tahola, WA: Quinault Indian Nation.

Washington Department of Fish and Wildlife. 2014. *Summary of Grays Harbor Fall Commercial Fisheries*. Available: http://wdfw.wa.gov/fishing/commercial/salmon/files/2014_gh_schedule_summary.pdf.

WorleyParsons. 2014. *Vessel Traffic Impact Analysis for Imperium and Westway*. April.

9.12.2 Personal Communications

Connelly, Glenn. Environmental Specialist. Chehalis Tribe. December 3, 2014—Meeting with ICF and Washington State Department of Ecology representatives.

Hughes, Kirt. Regional Fisheries Manager. Washington Department of Fish and Wildlife. December 12, 2014—Email to Greg Blair, ICF, in response to question about fisheries agreements between Washington Department of Fish and Wildlife and Chehalis Tribe.

Jorgenson, James E. Quinault Indian Nation. September 9, 2013—Testimony to the Shorelines Hearing Board. Available: http://www.fogh.org/pdf/QuinaultExpertReports20130909.pdf.

Scharpf, Mike. District 17 Fish Biologist, Region 6. Montesano. Washington Department of Fish and Wildlife. March 24, 2015—Summary of commercial and recreational fisheries in Grays Harbor and the Chehalis River provided to Diane Butorac, Washington State Department of Ecology.

Scharpf, Mike. District 17 Fish Biologist, Region 6. Montesano. Washington Department of Fish and Wildlife. May 26, 2015—Email regarding to Greg Blair, ICF, in response to question about in-season fish management.

9.13 Section 3.13 Public Services and Utilities

9.13.1 Written Resources

City of Aberdeen. 2014. *Wastewater Treatment Division*. Available: http://aberdeenwa.gov/public-works/sewer-plant. Accessed: January 8, 2015.

9.13.2 Personal Communications

Dionne, Paul. Site Manager. LeMay's Central Transfer Station. November 12 and December 30, 2014—Phone calls.

Randich, Mike [a]. Water Systems Manager. City of Aberdeen. November 12, 2014—Email to Dana Spindler, ICF International.

Randich, Mike [b]. Water Systems Manager. City of Aberdeen. December 29, 2014— Phone call with Dana Spindler, ICF International.

Scott, Kyle. Wastewater Systems Manager. City of Aberdeen. November 12, 2014—Email to Dana Spindler, ICF International.

Stalander, Roger. Manager, LeMay Inc. Aberdeen, WA. January 12, 2015—Phone call with Dana Spindler, ICF International.

9.14 Section 3.14 Hazardous Materials

9.14.1 Written Resources

American Fuel and Petrochemical Manufacturers. 2014. *A Survey of Bakken Crude Oil Characteristics Assembled for the US Department of Transportation.* Prepared by Dangerous Goods Transport Consulting, Inc. May 14.

Boersema, Jana. 2013. *A Cultural Resources Assessment and Survey of the Westway Grays Harbor Terminal Expansion Project, Grays Harbor County, Washington*. Prepared for Westway Group, LLC. Seattle, WA: Cascadia Archaeology, December 23. On file at DAHP.

Cheremisinoff, Nicholas P. 2000. *Handbook of Hazardous Chemical Properties*. Hoburn, Massachusetts. Butterworth-Heinemann.

Cheremisinoff, N. P. 2000. *Handbook of Hazardous Chemical Properties.* Butterworth Heinemann. Boston, Oxford, Auckland, Johannesburg, Melnbourne, New Delhi.

Insight Geologic, Inc. 2012. *Phase I Environmental Site Assessment, Port of Grays Harbor, Slip 1*. Prepared for Port of Grays Harbor. Olympia, WA.

Kimble, J. 2014. *Biofuels and Emerging Issues for Emergency Responders: An Introduction to Basic Response Guides and Case Study Examples from Biofuel Spills.* PowerPoint presentation, U.S. EPA Archive Document. Available: http://www.epa.gov/oem/docs/oil/fss/fss09/kimblebiofuels.pdf. Accessed: May 13, 2015.

Wang, Z. B. P. Hollebone, M. Fingas, B. Fieldhouse, L. Sigouin, M. Landriault, P. Smith, J. Noonan, and G. Thouin. 2003. *Characteristics of Spilled Oils, Fuels, and Petroleum Products: 1. Composition and Properties of Selected Oils*. Prepared by Environment Canada, Ottawa, Canada. Prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC. EPA/600/R-03/072. Available: http://www.epa.gov/athens/publications/reports/EPA-600-R03-072-OilComposition.pdf. Accessed: July 13, 2015.

9.15 Section 3.15 Rail Traffic

9.15.1 Written Resources

Washington State Department of Ecology. 2014. *Washington State Draft 2014 Marine and Rail Oil Transportation Study*. Publication Number 14-08-015. December 1.

Washington State Department of Transportation. 2014a. *Washington State Rail Plan: Integrated Freight and Passenger Rail Plan 2013-2035*. Available: http://www.wsdot.wa.gov/NR/rdonlyres/F67D73E5-2F2D-40F2-9795-736131D98106/0/StateRailPlanFinal201403.pdf. Accessed: December 1, 2014.

Washington State Department of Transportation. 2014b. *Washington State Freight Mobility Plan*. October.

WorleyParsons. 2014. *Rail Transportation Impact Analysis for Westway and Imperium.* April.

9.15.2 Personal Communications

Gomez, Larry. Genesee & Wyoming. December 8, 2014—Email correspondence with Diane Butorac, Washington State Department of Ecology.

9.16 Section 3.16 Vehicle Traffic and Safety

9.16.1 Written Resources

Federal Highway Administration. 2007. *Railroad-Highway Grade Crossing Handbook.* August. Available: http://safety.fhwa.dot.gov/xings/com_roaduser/07010/.

Federal Railroad Administration. 1987. *Rail-Highway Crossing Resource Allocation Procedure User's Guide*. Third Edition. Available: https://www.fra.dot.gov/eLib/Details/L02900. Accessed: December 1, 2014.

Federal Railroad Administration. 2014a. *Highway-Rail Crossing Inventory Data*. Available: http://safetydata.fra.dot.gov/OfficeofSafety/publicsite/Downloaddbf.aspx. Accessed: December 1, 2014.

Federal Railroad Administration. 2014b. *GradeDec.Net Model*. Available: http://gradedec.fra.dot.gov/default.aspx. December 1, 2014.

Operation Lifesaver. 2014. *Rail Safety Education*. Available: http://oli.org/.

Transportation Research Board. 2010. *Highway Capacity Manual*. Available: http://www.co.monterey.ca.us/planning/major/Pebble%20Beach%20Company/Pebble_Beach_DEIR_Nov_2011/Pebble_Beach_DEIR_Admin_Records_Nov_2011/TRB/TRB_2000HghwyCapMan_IntersectionLOSCriteria.pdf. Accessed: December 1, 2014.

Washington State Department of Transportation. 2007. *US 101 Regional Circulation Project: Final Report*. January 2007. Available: http://www.wsdot.wa.gov/NR/rdonlyres/647F220E-2EAE-47B0-906E-335060648B96/0/US101Reportweb.pdf. Accessed: January 2, 2015.

Washington State Department of Transportation. 2009. *Level of Service Standards for Washington State Highways*. Available: http://www.wsdot.wa.gov/NR/rdonlyres/6AF72388-2455-47B9-B72D-2BE9A89A0E19/0/LOSStandardsforWAHwys.pdf. Accessed: December 22, 2014.

Washington State Department of Transportation. 2014. *I-5: Mellen Street to Blakeslee Junction*. Available: http://www.wsdot.wa.gov/projects/i5/MellentoGrandMound/phase3. Accessed: December 10, 2014.

9.17 Section 3.17 Vessel Traffic

9.17.1 Written Resources

Grays Harbor Safety Committee. 2014. *Harbor Safety Plan.* Available; http://www.portofgraysharbor.com/harbor-safety/downloads/archive/Harbor-Safety-Plan_Grays-Harbor.pdf.

National Oceanic and Atmospheric Administration. 2014a. Office of Coast Survey. Nautical Charts and Publications. Available: http://www.nauticalcharts.noaa.gov/staff/chartspubs.html. Accessed: November 1, 2014.

National Oceanic and Atmospheric Administration. 2014b. *U.S. Coast Pilot 7* (Pacific Coast: California, Oregon, Washington, Hawaii and Pacific Islands). 46th Edition.

National Oceanic and Atmospheric Administration. 2014c. *Observed Water Levels at Tidal Station 9441102, Westport, WA*. Available: http://tidesandcurrents.noaa.gov/waterlevels.html?id=9441102. Accessed: January 8, 2015.

Quinault Indian Nation. 2015. Response to information request from Washington State Department of Ecology dated March 27, 2015. Addressed Quinault Indian Nation fisheries in the Grays Harbor Area.

U.S. Army Corps of Engineers. 2014a. *Grays Harbor, Washington Navigation Improvement Project General Investigation Feasibility Study*. Appendix A: Economic Analysis.

U.S. Army Corps of Engineers2014b. *Waterborne Commerce Statistics Center.* Available: http://www.navigationdatacenter.us/wcsc/wcsc.htm. Accessed: December 6, 2014.

U.S. Coast Guard. 2015. *U.S. Coast Guard Station Grays Harbor*. Available: http://www.uscg.mil/d13/sectcolrvr/stagraysharbor/graysharbor.asp. Accessed: January 7, 2015.

Washington Department of Fish and Wildlife. 2013. Concise Explanatory Statement. *Grays Harbor Commercial Salmon Regulations for 2013.* Available: http://wdfw.wa.gov/about/regulations/2013/wsr_13-19-027_ces.pdf.

Washington Department of Fish and Wildlife. 2014. *Summary of Grays Harbor Fall Commercial Fisheries*. Available: http://wdfw.wa.gov/fishing/commercial/salmon/files/2014_gh_schedule_summary.pdf.

Washington Department of Fish and Wildlife. 2015. *Coastal Commercial Dungeness Crab Fishery*. Available: http://wdfw.wa.gov/fishing/commercial/crab/coastal/.

Washington State Department of Ecology. 2015. *Washington State 2014 Marine and Rail Oil Transportation Study.* Ecology Publication Number 15-08-010. March. Olympia, WA. Available: https://fortress.wa.gov/ecy/publications/SummaryPages/1508010.html.

WorleyParsons. 2014. *Vessel Traffic Impact Analysis for Imperium and Westway.* April 21.

9.17.2 Personal Communications

Campbell, Kevin. Operations. Brusco Tug & Barge. September 8, 2014—Personal communication.

D'Angelo, Robert. Pilot. Port of Grays Harbor. September 8, 2014—Telephone conference call.

Larson, Peggy. Executive Director. Board of Pilotage Commissioners, Seattle, WA. September 23, 2014—Conversation with Nathalie Valley, ICF International, regarding state-licensed pilots.

Scharpf, Mike. District 17 Fish Biologist, Region 6. Montesano. Washington Department of Fish and Wildlife. March 24, 2015—Summary of commercial and recreational fisheries in Grays Harbor and the Chehalis River provided to Diane Butorac, Washington State Department of Ecology.

9.18 Section 4.1 Introduction, Environmental Health and Safety

9.18.1 Written Resources

Washington State Department of Ecology. 2015. *Washington State 2014 Marine and Rail Oil Transportation Study.* Ecology Publication Number 15-08-010. March. Olympia, WA. Available: https://fortress.wa.gov/ecy/publications/SummaryPages/1508010.html.

9.19 Section 4.2 Applicable Regulations

9.19.1 Written Resources

Grays Harbor County. Undated. *Comprehensive Emergency Management Plan (CEMP).* Available: http://www.co.grays-harbor.wa.us/info/DEM/Planning.htm#CEMP. Accessed: November 23, 2014.

Ramseur, J. L. 2012. *Oil Spills in U.S. Coastal Waters: Background and Governance*. Congressional Research Service. January 11, 2012. Page 21.

Washington State Department of Ecology. 2015. *Washington State 2014 Marine and Rail Oil Transportation Study.* Ecology Publication Number 15-08-010. March. Olympia, WA. Available: https://fortress.wa.gov/ecy/publications/SummaryPages/1508010.html.

9.20 Section 4.3 Risk Considerations

9.20.1 Written Resources

International Tanker Owners Pollution Federation Limited. 2011. *Effects of Oil Pollution on the Marine Environment.* Technical Information Paper 13. London. Available: http://www.itopf.com/knowledge-resources/documents-guides/document/tip-13-effects-of-oil-pollution-on-the-marine-environment.

Jokuty, P. 2005. *Properties of Crude Oil and Oil Products..* As cited in Environment Canada, Emergencies Science and Technology. Cited in Tsaprailis, H. 2014. *Properties of Dilbit and Conventional Crude Oils.* February. Alberta Innovated—Technology Futures. Available: http://www.ai-ees.ca/media/10927/properties_of_dilbit_and_conventional_crude_oils_-_aitf_-_final_report_revised.pdf.

National Oceanic and Atmospheric Administration. 2015. *As Oil Sands Production Rises, What Should We Expect at Diluted Bitumen (Dilbit) Spills?* Last revised: June 3, 2015. Available: http://response.restoration.noaa.gov/about/media/oil-sands-production-rises-what-should-we-expect-diluted-bitumen-dilbit-spills.html.

National Research Council. 2013. *Effect of Diluted Bitumen on Crude Oil Transmission Pipelines*. Transportation Research Board Special Report 311. Washington, DC.

POLARIS Applied Sciences, Inc. 2013. *A Comparison of the Properties of Diluted Bitumen Crudes with Other Oils.*

Tsaprailis, H. 2014. *Properties of Dilbit and Conventional Crude Oils.* February. Alberta Innovated—Technology Futures. Available: http://www.ai-ees.ca/media/10927/properties_of_dilbit_and_conventional_crude_oils_-_aitf_-_final_report_revised.pdf.

U.S. Army Corps of Engineers. 2003. Centralia Flood Damage Reduction Project - Chehalis River, Washington: Final General Reevaluation Report. June. Available: http://www.nws.usace.army.mil/Missions/CivilWorks/ProgramsandProjects/Projects/Centralia,ChehalisFloodRiskManagement.aspx.

Washington State Department of Ecology. 2015. *Washington State 2014 Marine and Rail Oil Transportation Study.* Ecology Publication Number 15-08-010. March. Olympia, WA. Available: https://fortress.wa.gov/ecy/publications/SummaryPages/1508010.html.

Witt O'Brien's, Polaris Applied Sciences, Western Canadian Marine Response Corporation. 2013. *A Study of Fate and Behavior of Diluted Bitumen Oils on Marine Authors. Dilbit Experiments: Gainford, Alberta.*

9.21 Section 4.4 Environmental Health Risks—Terminal (Onsite)

9.21.1 Written Resources

Imperium Terminal Services 2013. Imperium *Bulk Liquid Terminal Facility Project Proposal Environmental Checklist Resubmittal to City of Hoquiam.* February 22. Page 25.

National Fire Protection Agency. 2014. *Fires at Outside Storage Tanks*. Available: http://www.nfpa.org/research/reports-and-statistics/fires-by-property-type/storage/fires-at-outside-storage-tanks.

National Fire Protection Agency. 2015. *List of Codes and Standards*. Available: http://www.nfpa.org/codes-and-standards/document-information-pages.

Pacific States/British Columbia Oil Spill Task Force. 2015. *Summary of West Coast Oil Spill Data.* Calendar Year 2014. Available: http://oilspilltaskforce.org/documents/other-documents/#spilldata

U.S. Environmental Protection Agency. 2009. Imperium Grays Harbor Explosion. Hoquiam, WA - EPA Region X. NRC#: 925098. Available: http://www.epaosc.org/site/site_profile.aspx?site_id=5644.

9.21.1 Personal Communications

Butorac, Diane. Washington State Department of Ecology. September 2, 2014—Email regarding explosion in 2009 recorded in the Ecology Environmental Report Tracking System.

9.22 Section 4.5 Environmental Health Risks—Rail Transport

9.22.1 Written Resources

Anderson, R. and C. P. L. Barkan. 2004. Railroad Accident Rates for Use in Rail Transportation Risk Analysis. *Transportation Research Record - Journal of the Transportation Research Board* 1863: 88–98.

Federal Railroad Administration. 2007. *Track Safety Standards Compliance Manual*. Chapter 5, Classes 1–5, April 1.

Liu, Xiang, M. Rapik Saat, and Christopher P. L. Barkan 2012. Analysis of Causes of Major Train Derailment and Their Effect on Accident Rates. *Transportation Research Record: Journal of the Transportation Research Board* 2289:154–163. Washington, DC: Transportation Research Board of the National Academies. Available: http://trrjournalonline.trb.org/doi/10.3141/2289-20.

Pipeline and Hazardous Materials Safety Administration. 2014. *Petroleum Crude Oil Reference.*

Washington State Department of Ecology. 2015. *Washington State 2014 Marine and Rail Oil Transportation Study.* Ecology Publication Number 15-08-010. March. Olympia, WA. Available: https://fortress.wa.gov/ecy/publications/SummaryPages/1508010.html.

Washington State Emergency Management Division 2011. *Washington State Comprehensive Emergency Management Plan (CEMP).* Basic Plan. June. Appendix C (Agency ESF Responsibilities Matrix).

Washington State Patrol Office of the State Fire Marshal. 2014. *Washington State Fire Services Resource Mobilization Plan*. April.

WorleyParsons. 2014. *Rail Transportation Impact Analysis for Westway and Imperium.* April.

9.23 Section 4.6 Environmental Health Risks—Vessel Transport

9.23.1 Written Resources

Glosten Associates. 2014. *Gateway Pacific Terminal (GPT), Vessel Traffic and Risk Assessment Study*. November 4.

National Transportation Safety Board. *2014.* Safer Seas 2014: Lessons Learned from Marine Accident Investigations. NTSB/SPC-15-01. 36–37.

U.S. Coast Guard. 1997. *U.S. Coast Guard Investigation into the Circumstances Surrounding the Explosion and Fire Aboard the Tankship OMI Charger.* March 6, 1997.

U.S. Coast Guard. 2010. *U.S. Coast Guard Report of Investigation into the Circumstances of the Explosion, Fire, and Sinking of the Tank Barge EMC 423 with One Loss of Life*. April 6, 2010.

Washington State Department of Ecology. 2009. *Oil Spill Risk in Industry Sectors Regulated by Washington State Department of Ecology Spills Program for Oil Spill Prevention and Preparedness.* Prepared by D.S. Etikin, Environmental Research Consulting. Cortland Manor, NY.

Washington State Department of Ecology. 2015. *Washington State 2014 Marine and Rail Oil Transportation Study.* Ecology Publication Number 15-08-010. March. Olympia, WA. Available: https://fortress.wa.gov/ecy/publications/SummaryPages/1508010.html.

Yip, Tsz Leung, Wayne K. Talley, Di Jin. 2011. The Effectiveness of Double Hulls in Reducing Vessel-Accident Oil Spillage. *Marine Pollution Bulletin* 62(2011):2427–2432.

9.24 Section 4.7 Impacts on Resources

9.24.1 Written Resources

Amoore, J. E. and E. Hautala, 1983. Odor as an Aid to Chemical Safety: Odor Thresholds Compared with Threshold Limit Values and Volatilities for 214 Industrial Chemicals in Air and Water Dilution. *Journal of Applied Toxicology* 3(6):272–290.

Campagna, P. R. and A. Humphrey. 1992 Air Sampling and Monitoring at the Kuwait Oil Well Fires. *Proceedings of the Fifteenth Arctic and Maine Oil Spill Program Technical Seminar*, June 10-12, 1992, Edmonton, Alberta. 575-592.

Cedre. 2008. *Understanding Black Tides*. Center of Documentation, Research, and Experimentation on Accidental Water Pollution. Brest, France.

Congressional Research Service, 2014. *Crude Oil Properties Relevant to Rail Transport Safety: In Brief*, 7-5700, R43041, February 14.

Crosby, S., R. Fay, C. Groark, A. Kani, J. R. Smith, T. Sullivan, and R. Pavia. 2013. *Transporting Alberta Oil Sands Products: Defining the Issues and Assessing the Risks*. National Oceanic and Atmospheric Administration, Office of Response and Restoration. September. NOAA Technical Memorandum NOS OR&R 44. Seattle, WA.

Edema, N. 2012. Effects of Crude Oil Contaminated Water on the Environment. Chapter 9 in M. El-Sayed Abdel-Raouf (ed.), *Crude Oil Emissions—Composition Stability and Characterization.* Rijeka, Croatia: InTech. Available: www.intechopen.com/books/crude-oil-emulsions-composition-stability-and-characterization/biological-effects-of-water-soluble-fraction-of-crude-oil-on-aquatic-environment. Accessed: May 13, 2015.

Exxon Valdez Oil Spill Trustee Council. 2015. *Recreation & Tourism.* Available: http://www.evostc.state.ak.us/index.cfm?FA=status.human_recreation.

Fingas, M., 2014. Review of Emissions from Oil Fires, Proceedings from the 2014 International Oil Spill Conference, 1795–1805.

Fingas, M., G. Halley, F. Ackerman, N. Vanderkooy, R. Nelson, M. Bissonnette, N. Laroche, P. Lambert, P. Jokuty, K. Li, W. Halley, G. Warbanski, P. Campagna, R. Turpin, M. Trespalacios, D. Dickins, E. Tennyson, D. Aurand, and R. Hiltabrand. 1994. The Newfoundland Offshore Burn Experiment: NOBE experimental design and overview. In Proceedings of the Seventeenth Arctic and Marine

Oil Spill Program (AMOP) Technical Seminar. June 8-10. Vancouver, British Columbia, 1053–1063.

Gendaszek, A. 2011. *Hydrogeologic Framework and Groundwater/Surface-Water Interactions of the Chehalis River Basin, Southwestern Washington*. Prepared for the U.S. Geological Survey in cooperation with the U.S. Army Corps of Engineers, Washington State Department of Ecology, and the Chehalis Basin Partnership. Scientific Investigations Report 2011-5160.

Grays Harbor Audubon Society. 2008. Checklist of Grays Harbor County Birds. Available: www.ghas.org/alphachklist.php.

Haley. T. J. 1977. Evaluation of the Health Effects of Benzene Inhalation. *Clinical Toxicology* 11(5):531–548.

Heath, R. C. 1989. *Basic Ground-Water Hydrology*. U.S. Geological Survey Water-Supply Paper 2220. United States Government Printing Office. Denver, CO. Prepared in cooperation with the North Carolina Department of Natural Resources and Community Development.

International Tanker Owners Pollution Federation Limited. 2011a *Effects of Oil Pollution on the Marine Environment.* Technical Information Paper 13. London. Available: http://www.itopf.com/knowledge-resources/documents-guides/document/tip-13-effects-of-oil-pollution-on-the-marine-environment.

International Tanker Owners Pollution Federation Limited.. 2011b. *Fate of Marine Oil Spills*. Technical Information Paper 2. London. Available: http://www.itopf.com/knowledge-resources/documents-guides/document/tip-2-fate-of-marine-oil-spills.

Michel, Jacqueline, and Nicolle Rutherford. 2013. *Oil Spills in Marshes: Planning and Response Considerations*. September. National Oceanic and Atmospheric Administration and American Petroleum Institute.

National Oceanic and Atmospheric, 1995. *Nir Barnea, Health and Safety Aspects of In-situ Burning of Oil*, Seattle, WA. Available: http://response.restoration.noaa.gov/oil-and-chemical-spills/oil-spills/resources/in-situ-burning.html.

Office of Environmental Health Hazard Assessment. 2008. California Environmental Protection Agency. *Technical Support Document for Noncancer Reference Exposure Levels*, 143–151. Appendix D2, Available: http://www.oehha.ca.gov/air/hot_spots/2008/AppendixD2_final.pdf#page=144.

Onwurah, I. N. E., V. N. Ogugua, N. B. Onyike, A. E. Ochonogor, and O. F. Otitoju. 2007. Crude Oil Spills in the Environment, Effects and Some Innovative Clean-up Biotechnologies. *International Journal of Environmental Research* 1(4):307–320.

Silliman, B. R., Jo. van de Koppel, M. W. McCoy, J. Diller, G. N. Kasozi, K. Earl, P. N. Adams, and A. R. Zimmerman. Degradation and resilience in Louisiana salt marshes after the BP–Deepwater Horizon oil spill. *PNAS: Proceedings of the National Academy of Sciences of the United States of America* 109(28).

Thayer, E. C. and J. G. Tell., 1999, *Modeled Exposures to Freshly Spilled Crude Oil, 1999 International Oil Spill Conference*, 1195–1198. Available: http://ioscproceedings.org/doi/abs/10.7901/2169-3358-1999-1-1195.

Thurston County Washington. 2010. *Existing Critical Aquifer Recharge Areas and McAllister Geologically Sensitive Area* [map]. Available: http://www.co.thurston.wa.us/planning/critical_areas/maps-2010/CARA.pdf. Accessed: October 28, 2014.

U.S. Environmental Protection Agency. 1999. Office of Emergency and Remedial Response. The Behavior and Effects of Oil Spills in Aquatic Environments. Chapter 1 in *Understanding Oil Spills and Oil Spill Response.* Available: http://www.epa.gov/oem/docs/oil/edu/oilspill_book/chap1.pdf. Accessed: May 13, 2015.

U.S. Fish and Wildlife Service. 2004. *Effects of Oil Spills on Wildlife Habitat: Alaska Region.* Available: https://workspace.icfi.com/etr/epi/projects/wirepeis/Westway%20DEIS/3.05_Animals/AdminRecord/ReferencedMaterial/USFWS%202004%20oil%20spill%20alaska.pdf.

U.S. Fish and Wildlife Service. 2010. *Effects of Oil on Wildlife and Habitat.* June. Available: https://workspace.icfi.com/etr/epi/projects/wirepeis/Westway%20DEIS/3.05_Animals/AdminRecord/ReferencedMaterial/USFWS%202010%20oil%20spill.pdf.

U.S. Fish and Wildlife Service. 2012. *New Carissa Oil Spill: From Response to Restoration*. Available: http://www.fws.gov/oregonfwo/Contaminants/Spills/NewCarissa/.

U.S. Fish and Wildlife Service. 2014. *Grays Harbor National Wildlife Refuge.* Available: http://www.fws.gov/refuge/Grays_Harbor/what_we_do/resource_management.html. Accessed: October 3, 2014.

Washington State Department of Ecology. 1998. *Chehalis River Watershed Surficial Aquifer Characterization*. Environmental Assessment Program, Watershed Ecology Section. December. Publication Number 98-335. Olympia, WA.

Washington State Department of Ecology. 2015. *Washington State 2014 Marine and Rail Oil Transportation Study.* Ecology Publication Number 15-08-010. March. Olympia, WA. Available: https://fortress.wa.gov/ecy/publications/SummaryPages/1508010.html.

Yongsiri, C., J. Vollertsen, and T. Hvitved-Jacobsen. 2004, Effect of Temperature on Air-Water Transfer of Hydrogen Sulfide, *Journal of Environmental Engineering*, 130, No. 1., DOI: 10.1061/(ASCE)0733-9372(2004)130:1(104).

9.25 Chapter 5 Extended Rail and Vessel Transport

9.25.1 Written Resources

Association of American Railroads. 2014a. *Types of Railroads*. Available: https://www.aar.org/todays-railroads/our-network?t=typesofrailroads. Accessed: December 15, 2014.

BNSF Railway Company. 2009. *BNSF Railway Northwest Division Timetable No. 4.* June 17. Available: https://www.acm.jhu.edu//~sthurmovik/movies/BNSF_Northwest_Div_TT_No4_06-17-09.pdf. Accessed: May 19, 2015.

BNSF Railway. 2013. *BNSF Railway Grade Crossing Safety*. Available: http://www.bnsf.com/communities/pdf/GradeCrossingSafety.pdf. Accessed: January 16, 2015.

Bowen, D. J. 2012. *BNSF Touts Bakken Field Capacity Expansion*. RailwayAge. Simons-Boardman Publishing. September 12.

Millennium Bulk Terminals—Longview. 2013. *Frequently Asked Questions.* Available: http://www.millenniumbulkeiswa.gov/frequently-asked-questions.html.

National Oceanic and Atmospheric Administration. 2013. *Vessel Transits Through Olympic Coast National Marine Sanctuary and Area to Be Avoided (ATBA) - 2012 Estimated Compliance.* April 25. Office of National Marine Sanctuaries, Olympic Coast National Marine Sanctuary. Available: http://olympiccoast.noaa.gov/protect/incidentresponse/2012_ais.pdf.

National Oceanic and Atmospheric Administration. 2015. *Coast Pilot 7*. Available: http://www.nauticalcharts.noaa.gov/nsd/coastpilot_w.php?book=7.

Pacific International Terminals. 2012. *Gateway Pacific Terminal Major Project Permit & Shoreline Substantial Development Permit Applications*. Available: http://www.co.whatcom.wa.us/DocumentCenter/Home/View/2797.

Pacific States/British Columbia Oil Spill Task Force and U.S. Coast Guard. 2002. *West Coast Offshore Vessel Traffic Risk Management Project*. Final Project . July. Available: http://oilspilltaskforce.org/wp-content/uploads/2013/12/2002-Offshore-Vessels-Risk-Management-Project-Report.pdf. Accessed: May 12, 2015.

Stagle, J. 2013. BNSF Banks on Crude Oil, Domestic Intermodal to Build Rail Traffic and Raise Revenue. *Progressive Railroading.* January.

U.S. Energy Administration. 2013. *U.S. Crude Oil and Natural Gas Proved Reserves.* Available: http://www.eia.gov/naturalgas/crudeoilreserves/pdf/usreserves.pdf.

U.S. Energy Administration. 2015. *Crude Oil Production.* Available: http://www.eia.gov/dnav/pet/pet_crd_crpdn_adc_mbblpd_a.htm.

Washington State Department of Ecology. 2015. *Washington State 2014 Marine and Rail Oil Transportation Study.* Publication Number: 15-08-010. March11. Available: https://fortress.wa.gov/ecy/publications/documents/1508010.pdf.

Washington State Department of Transportation. 2014a. *Rail Division. Washington State Freight Mobility Plan.* October 2014.

Washington State Department of Transportation. 2014b. *Washington State Rail Plan, Integrated Freight and Passenger Rail Plan, 2013-2015*., Washington State Department of Transportation Rail Division. March.

9.26 Chapter 6 Cumulative Impacts

9.26.1 Written Resources

City of Hoquiam. 2009. *Comprehensive Land Use Plan*. February.

Climate Impacts Group. 2015. *Climate Change.* Available: http://cses.washington.edu/cig/pnwc/cc.shtml. Accessed: July 14, 2015.

Council on Environmental Quality. 1997. *Considering Cumulative Effects under the National Environmental Policy Act.*

Cowlitz-Wahkiakum Council of Governments. 2009. *Metropolitan and Regional Transportation Plan 2009–2029*. November.

Cowlitz-Wahkiakum Council of Governments. 2013. *Fiscal Year 2013 Annual Report (July 1, 2012 to June 30, 2013)*.

Cowlitz-Wahkiakum Council of Governments. 2014. *Metropolitan and Regional Transportation Improvement Programs 2015–2018*. August.

Dalton, M. M., P. W. Mote, and A. K. Snover [Eds.]. 2013. *Climate Change in the Northwest: Implications for Our Landscapes, Waters, and Communities.* Washington, DC: Island Press.

Federal Railroad Administration 2007 *Railroad-Highway Grade Crossing Handbook–Revised Second Edition.* August. Available: https://www.fra.dot.gov/Elib/Details/L02829.

Grays Harbor Council of Governments. 2007. *US 101 Regional Circulation Project – Final Report.* January.

Grays Harbor Council of Governments. 2013. *Annual report.*

HDR Engineering, Inc. 2014. *Grays Harbor Rail Terminal LLC Air Quality Impact Technical Report.* March. Bellevue, WA.

Hinch, S. G. and P. S. Rand 2000. Optimal Swimming Speeds and Forward-Assisted Propulsion: Energy-Conserving Behaviours of Upriver-Migrating Adult Salmon*. Canadian Journal of Fisheries and Aquatic Science.* 57: 2470–2478.

Hughes, N. 2004. The Wave-Drag Hypothesis: An Explanation for Size-Based Lateral Segregation during the Upstream Migration of Salmonids. *Canadian Journal of Fisheries and Aquatic Science.* 61: 103–109.

Intergovernmental Panel on Climate Change. 2013. Annex III: Glossary [Planton, S. (ed.)]. In: *Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* [Stocker, T. F., D. Qin, G.-K. Plattner, M. Tignor, S. K. Allen, J. Boschung, A. Nauels, Y. Xia, V. Bex and P. M. Midgley (eds.)]. Cambridge, United Kingdom and New York, NY: Cambridge University Press.

Kunkel, K. E., L. E. Stevens, S. E. Stevens, L. Sun, E. Janssen, D. Wuebbles, K. T. Redmond. J. G. Dobson 2013. *Regional Climate Trends and Scenarios for the U.S. National Climate Assessment. Part 6. Climate of the Northwest U.S.* Available: http://www.nesdis.noaa.gov/technical_reports/NOAA_NESDIS_Tech_Report_142-6-Climate_of_the_Northwest_U.S.pdf.

Mote, P., A. K. Snover, S. Capalbo, S. D. Eigenbrode, P. Glick, J. Littell, R. Raymondi, and S. Reeder, 2014. Ch. 21: *Northwest. Climate Change Impacts in the United States: The Third National Climate Assessment*, J. M. Melillo, Terese (T. C.) Richmond, and G. W. Yohe, (Eds.) U.S. Global Change Research Program, 487-513. doi:10.7930/J04Q7RWX.

National Oceanic and Atmospheric Administration. 2014. *U.S. Coast Pilot 7* (Pacific Coast: California, Oregon, Washington, Hawaii and Pacific Islands). 46th Edition.

National Oceanic and Atmospheric Administration. 2015. Sea Level Rise Viewer. Available: http://coast.noaa.gov/digitalcoast/tools/slr. Accessed: June 2015.

National Research Council. 2012. *Sea-Level Rise for the Coasts of California, Oregon, and Washington: Past, Present, and Future.* Available: http://ssi.ucsd.edu/scc/images/NRC%20SL%20rise%20W%20coast%20USA%2012.pdf

Oxford E-Research Center. 2015. *Explaining the Need to Limit Cumulative Emissions of Carbon Dioxide*. Data provided by the Department of Physics, University of Oxford. Available: TrillionthTonne.Org.

Quinault Indian Nation. 2015. *Exhibit E, Fishing Impact Video*. Letter to Maia Bellon, Washington State Department of Ecology. May 20.

Quinn, T. P. 2005. *The Behaviour and Ecology of Pacific Salmon and Trout.* Bethesda, MD: American Fisheries Society.U.S. Army Corps of Engineers. 2014. *Cargo by Ports: 2012.* Institute for Water Resources, Waterborne Commerce Statistics Center. April 15. Available: http://www.navigationdatacenter.us/wcsc/webpub12/webpubpart-4.htm. Accessed: May 19, 2015.

Trinity Consultants. 2015a. Westway Terminal Company LLC Crude by Rail Project for Hoquiam Terminal—Westway's Response to ORCAA's December 5, 2014 Preliminary Required Revisions for NOC Application. June 23.

Trinity Consultants. 2015b. Imperium Terminal Services, LLC—Imperium Bulk Liquid Terminal Facility Project Air Permit Notice of Construction Revision in Response to December 5, 2014 Letter from ORCAA. April 20.

U.S. Energy Information Administration. 2015. *Petroleum & Other Liquids.* Available: http://www.eia.gov/petroleum/.

U.S. Environmental Protection Agency. 2013. Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2011. Annex 2 (Methodology for estimating CO_2 emissions from fossil fuel combustion) Table A-45. Washington, DC. U.S. EPA #430-R-13-001. Available: http://www.epa.gov/climatechange/Downloads/ghgemissions/US-GHG-Inventory-2013-Annexes.pdf.

Washington State Blue Ribbon Panel. 2012. Washington State Blue Ribbon Panel on Ocean Acidification. 2012. *Ocean Acidification: From Knowledge to Action. Washington State's Strategic Response.* November. Available: https://fortress.wa.gov/ecy/publications/publications/1201015.pdf.

Washington State Department of Ecology. 2011. *Washington State Greenhouse Gas Emissions Inventory 2010-2011.* Air Quality Program. Washington State Department of Ecology, Olympia, WA. Available: https://fortress.wa.gov/ecy/publications/publications/1402024.pdf. Accessed: June 2015.

Washington State Department of Ecology. 2014a. *Washington State Greenhouse Gas Emissions Inventory 2010–2011*. Available: https://fortress.wa.gov/ecy/publications/publications/1402024.pdf.

Washington State Department of Ecology. 2014b. *Washington State Draft 2014 Marine and Rail Oil Transportation Study*. Publication Number 14-08-015. December 1.

Washington State Department of Ecology. 2015. *Washington State 2014 Marine and Rail Oil Transportation Study.* Publication Number: 15-08-010. March 1. Available: https://fortress.wa.gov/ecy/publications/documents/1508010.pdf.

Washington State Department of Transportation. 2009. *Washington State 2010-2030 Freight Rail Plan*. December. Available: http://www.wsdot.wa.gov/NR/rdonlyres/34925D95-4F59-44B6-90DD-6BE102B33C15/0/StateFreightRailPlan.pdf.

Washington State Department of Transportation. 2014a. *Washington State Rail Plan: Integrated Freight and Passenger Rail Plan 2013-2035*. Available: http://www.wsdot.wa.gov/NR/rdonlyres/F67D73E5-2F2D-40F2-9795-736131D98106/0/StateRailPlanFinal201403.pdf. Accessed: December 1, 2014.

Washington State Department of Transportation. 2014b. *Washington State Rail Plan, Integrated Freight and Passenger Rail Plan, 2013-2015*., Washington State Department of Transportation Rail Division. March 2014.

White House, Office of the Press Secretary. 2014. *U.S.-China Joint Announcement on Climate Change and Clean Energy Cooperation*. Available: https://www.whitehouse.gov/the-press-office/2014/11/11/fact-sheet-us-china-joint-announcement-climate-change-and-clean-energy-c

World Resources Institute. 2014. CAIT 2.0. 2014. Climate Analysis Indicators Tool: WRI's Climate Data Explorer. Washington, DC: World Resources Institute. Available: http://cait2.wri.org.

WorleyParsons. 2014. *Rail Transportation Impact Analysis for Westway and Imperium.* April.

9.26.2 Personal Communications

D'Angelo, Robert. Pilot. Port of Grays Harbor. September 8, 2014—Telephone conference call with Nathalie Valley, ICF International.

Larson, Peggy. Executive Director. Board of Pilotage Commissioners, Seattle, WA. September 23, 2014—Conversation with Nathalie Valley, ICF International, regarding state-licensed pilots.

Scharpf, Mike. District 17 Fish Biologist, Region 6. Montesano. Washington Department of Fish and Wildlife. March 24, 2015—Summary of commercial and recreational fisheries in Grays Harbor and the Chehalis River provided to Diane Butorac, Washington State Department of Ecology.

9.27 Chapter 7 Economics, Social Policy, and Cost-Benefit Analysis

9.27.1 Written Resources

Association of Washington Cities. 2014. *Local Business (B&O) Tax Rates.* Effective January 1, 2014. Available: http://www.awcnet.org/Portals/0/Documents/Legislative/bandotax/botaxrates.pdf. Accessed: December 22, 2014.

Belenky, Peter. 2011. *Revised Departmental Guidance on Valuation of Travel Time in Economic Analysis*. Memorandum to Secretarial Officers and Modal Administrators, U.S. Department of Transportation, Washington, DC. Available: www.dot.gov/office-policy/transportation-policy/revised-departmental-guidance-valuation-travel-time-economic. Accessed: December 20, 2014.

City of Hoquiam 2012. *City of Hoquiam 2013-2014 Estimated Budget.* Available: http://cityofhoquiam.com/our-departments/finance-department/. Accessed: January 7, 2015.

Council on Environmental Quality. 1997. *Environmental Justice. Guidance Under the National Environmental Policy Act*. Available: http://www.epa.gov/compliance/ej/resources/policy/ej_guidance_nepa_ceq1297.pdf. Accessed December 17, 2014.

ECONorthwest. 2014. *Economic Impact Analysis of Bulk Liquid Storage Facilities at the Port of Grays Harbor*. October 2014 update. Prepared for Westway Terminal Company LLC and Imperium Renewables Inc. Portland, OR.

Futch, M. 2011. *Examining the Spatial Distribution of Externalities: Freight Rail Traffic and Home Values in Los Angeles.* Working Paper. University of California at San Diego. Available:http://www.coaltrainfacts.org/docs/Freight-Rail-Traffic-and-Home-Values-in-LA.pdf. Accessed: November 5, 2014.

National Highway Traffic Safety Administration. 2014. T*he Economic and Societal Impact of Motor Vehicle Crashes, 2010*. Available: http://www-nrd.nhtsa.dot.gov/Pubs/812013.pdf. Accessed: January 07, 2015.

Simons, R. A. and A. El Jaouhari, 2004. The Effect of Freight Railroad Tracks and Train Activity on Residential Property Values. *The Appraisal Journal* 223–233.

The Eastman Company. 2012. *Increased Coal Train Traffic and Real Estate Values*. Working Paper. Available: http://www.powerpastcoal.org/wp-content/uploads/2012/11/coal-train-study.pdf. Accessed: January 5, 2015.

U.S. Bureau of Economic Analysis. 2014. SA27N and CA25N. *Full-time and Part-Time Wage and Salary Employment by NAICS industry.* Washington State and Grays Harbor County. http://www.bea.gov/iTable/iTable.cfm?reqid=70&step=1&isuri=1&acrdn=5#reqid=70&step=24&isuri=1&7022=11&7023=7&7001=711&7090=70.

U.S. Bureau of Labor Statistics. 2014. *Consumer Price Index Inflation Calculator.* Available: http://www.bls.gov/data/inflation_calculator.htm. Accessed: December 20, 2014.

U.S. Bureau of Labor Statistics. 2015. *Quarterly Census of Employment and Wages.* Databases, Tables & Calculators by Subject. Available: http://data.bls.gov/cgi-bin/dsrv. Accessed: August 18, 2015.

U.S. Census Bureau. 2010. American FactFinder. *Profile of General Population and Housing Characteristics, Selected Communities.* Available: http://factfinder.census.gov/faces/nav/jsf/pages/community_facts.xhtml#none. Accessed: December 19, 2014.

U.S. Census Bureau. 2011. *On the Map Application.* Available: http://onthemap.ces.census.gov. Accessed: December 10, 2014.

U.S. Census Bureau. 2011. *State and County QuickFacts.* Available: http://quickfacts.census.gov/qfd/index.html. Accessed December 17, 2014.

U.S. Census Bureau. 2013. *Current Population Survey, Annual Social and Economic Supplements.* Available: www.census.gov/prod/techdoc/cps/cpsmar13.pdf.

U.S. Census Bureau. 2014a. American FactFinder DP-1 and DP05. *Profile of General Demographic Characteristics, 2000, and ACS Demographic and Housing Estimates, 2012*. Washington State and Grays Harbor County. Available: http://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t.

U.S. Census Bureau. 2014b. American FactFinder DP-3 and DP03. *Profile of Selected Economic Characteristics, 2000, and Selected Economic Characteristics, 2012.* Washington State and Grays Harbor County. http://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t

U.S. Census Bureau. 2014c. *2009–2013 5-Year American Community Survey*. Query: census block group data for minority and low income populations in the study. December 4. Available: http://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t. Accessed: June 10, 2015.

Washington State Department of Ecology. 2014a. *Washington State Greenhouse Gas Emissions Inventory 2010-2011*. December. Publication 14-02-024. Olympia, WA. Available: https://fortress.wa.gov/ecy/publications/documents/1402024.pdf.

Washington State Department of Revenue. 2010. *Tax Reference Manual—Information on State and Local Taxes In Washington State.* Available: http://dor.wa.gov/Content/AboutUs/StatisticsAndReports/2010/Tax_Reference_2010/default.aspx. Accessed: December 19, 2014.

Washington State Department of Revenue. 2014a. *Local Taxing District Levy* Detail. 2014 Local Property Tax Levy Detail Table. Available: http://dor.wa.gov/Content/AboutUs/StatisticsAndReports/stats_proptaxstats_LevyDetail.aspx. Accessed: December 22, 2014.

Washington State Department of Revenue. 2014b. *Local Sales and Use Tax Rates by City/County. Tax Rates Effective January 1 – March 31, 2015*. Available: http://dor.wa.gov/Docs/forms/ExcsTx/LocSalUseTx/LocalSlsUseFlyer_15_Q1_alpha.pdf. Accessed: December 17, 2014.

Washington State Department of Transportation. 2014. *Environmental Manual.* Available: http://www.wsdot.wa.gov/Publications/Manuals/M31-11.htm. Accessed: January 13, 2015.

Washington State Office of Financial Management. 2014. *Median Household Income Estimates by County, 1989-2012 With Projections for 2013.* http://search.usa.gov/search?utf8=%E2%9C%93&affiliate=ofm&query=median+household+income&commit=Search.