Chapter 6 References

EXECUTIVE SUMMARY

BergerABAM. 2014. Tesoro Savage Vancouver Energy Distribution Facility Preliminary Draft EIS. July.

- Burlington Northern Santa Fe (BNSF) Railway. 2015. Train Horns. Website (http://www.bnsf.com/communities/faqs/train-horns/#quiet) accessed July 27, 2015.
- Chang, L. 2015. Major Accounts Manager, Northwest Natural. Personal communication with Emily Merickel, Senior Staff Scientist, Cardno, May 13, 2015.
- Corpron, D., and I. Makarow. 2015. Personal Communication. Letter from David Corpron, Savage Services, and Irina Makarow, BergerABAM, to Stephen Posner, EFSEC. February 5, 2015.
- E2 Consulting Engineers, Inc. 2012. Final Report Adaptive Environmental Management for the Columbia River Channel Improvement Project: Annual Report for 2011. Website (http://www.nwp.usace.army.mil/Portals/24/docs/environment/aem/AMT_AnnualReport2011.pdf)) accessed June 16, 2015.
- Eldred, Stephen, Division Chief for the Vancouver Fire Department. 2015a. Email to Sonia Bumpus, Energy Facility Site Evaluation Council Siting Specialist, and Katie Clifford, Cardno Project Manager/Regulatory Compliance Specialist, with EFSEC Follow-Up Questions file attached, June 1.
- Eldred, Stephen, Division Chief for the Vancouver Fire Department. 2015b. Email to John Gray, President, EnerSource Engineering, August 11, 2015.
- Eldred, Stephen, Division Chief for the Vancouver Fire Department. 2015c. Email to Sonia Bumpus, Energy Facility Site Evaluation Council Siting Specialist, and Katie Clifford, Cardno Project Manager/Regulatory Compliance Specialist, with EFSEC Questions file attached, April 28.
- Flint, K. 2015. Vancouver Energy Cultural Resources Inadvertent Discovery Plan. Archaeological Investigations Northwest, Inc., Portland. Prepared for Tesoro Savage Petroleum Terminal LLC, Vancouver.
- My Edmonds News. 2015. Mayor appoints task force to help advise railroad crossings alternatives study, July 29. Website (http://myedmondsnews.com/2015/07/mayor-appoints-task-force-to-helpadvise-railroad-crossings-alternatives-study/) accessed August 4, 2015.

Vancouver Energy. 2015. Response to EFSEC Data Request 2. February 23, 2015.

Washington State Department of Transportation (WSDOT). 2014. Washington State Rail Plan, Integrated Freight and Passenger Rail Plan. Website (http://www.wsdot.wa.gov/Rail/staterailplan.htm) accessed July 17, 2015.

CHAPTER 1, PROJECT BACKGROUND AND PURPOSE AND NEED

BergerABAM. 2014. Tesoro Savage Vancouver Energy Distribution Facility Preliminary Draft EIS. July.

- Energy Facility Site Evaluation Council (EFSEC). 2013. Tesoro Savage Vancouver Energy Distribution Terminal, Determination of Significance Scoping Notice, Notice of Initial Public Meeting, and Notice of Public Scoping Meeting. October 1. Website (http://www.efsec.wa.gov/Tesoro%20Savage/Tesoro%20legal%20Scoping%20notice%20Final% 2010-1-13.pdf) accessed March 1, 2015.
- Energy Facility Site Evaluation Council (EFSEC). 2014. Tesoro Savage Vancouver Energy Distribution Terminal Project, Scoping Report. February. Website (http://www.efsec.wa.gov/Tesoro%20Savage/Scoping%20Report/Scoping%20report%202-24-14.shtml) accessed March 1, 2015.
- Port of Vancouver (Port). 2012. Terminal Operations Opportunity Request for Statements of Interest. Vancouver, WA. November 30, 2012.
- Port of Vancouver (Port). 2015. West Vancouver Freight Access Project. Available online at http://www.portvanusa.com/wvfa/projects/#/wvfa/projects/part-1/.
- Washington State Department of Ecology (Ecology). 2015. Washington State 2014 Marine and Rail Oil Transportation Study. Publication Number 15-08-010, March 1.

CHAPTER 2, PROPOSED ACTION AND ALTERNATIVES

- BergerABAM. 2014a. Tesoro Savage Vancouver Energy Distribution Facility Preliminary Draft EIS, July.
- BergerABAM. 2014b. Application for Site Certification, Section 2.2.7.
- BergerABAM. 2015a. Response to EFSEC Draft EIS Data Request 1, January 12.
- BergerABAM. 2015b. Vancouver Energy Project Description Updates for Draft Environmental Impact Statement (DEIS) Development. Prepared for EFSEC, prepared by BergerABAM, May 27.
- BergerABAM. 2015c. Personal communication. Email to Sonia Bumpus, Energy Facility Site Evaluation Council Siting Specialist, updating Figure 2 in Appendix K of the Applicant-prepared Preliminary Draft EIS. September 23, 2015.
- BP. 2015. Refineries and Petrochemicals Plants. Website (http://www.bp.com/en/global/corporate/aboutbp/company-information/group-organization/down river/refineries-and-petrochemicalsplants.html) accessed February 27, 2015.
- Brown, P. R. Pirog, A. Vann, I. F. Fergusson, M. Ratner, and J. L. Ramseur. 2014. U.S. Crude Oil Export Policy: Background and Considerations, Congressional Research Service, 7-5700, R43442. December 31. Website (http://fas.org/sgp/crs/misc/R43442.pdf) accessed March 25, 2015.
- BST Associates. 2011. Pacific Northwest marine cargo forecast update and rail capacity assessment. Pacific Northwest Rail Coalition. December 2011.

- Burlington Northern Santa Fe (BNSF). 2015. Crude-By-Rail Facilities. Website (https://www.bnsf.com/customers/oil-gas/interactive-map/pdfs/BNSF-OG-Overview-Map.pdf) accessed March 18, 2015.
- California Energy Almanac. 2015. California Oil Refineries. Website (http://energyalmanac.ca.gov/petroleum/refineries.html) accessed July 30, 2015.
- Columbia River Pilots. 2014. Vessel Traffic Information System Transview 32. Website (http://colrip.com/safety/vtis/) accessed July 30, 2015.
- Corpron, D., and I. Makarow. 2015. Personal Communication. Letter from David Corpron, Savage Services, and Irina Makarow, BergerABAM, to Stephen Posner, EFSEC. February 5, 2015.
- Energy Facility Site Evaluation Council (EFSEC) and US Forest Service. 1998. Cross Cascade Pipeline Draft Environmental Impact Statement, September. Website (http://www.efsec.wa.gov/oplarchive/deisarchive.shtml) accessed March 24, 2015.
- Federal Highway Administration. 2009. Innovations for Tomorrow's Transportation. Website (http://www.fhwa.dot.gov/policy/otps/innovation/issue1/innovations.pdf) accessed March 25, 2015.
- Fritelli, J., A. Andrews, P. W. Parfomak, R. Pirog, J. L. Ramseur, and M. Ratner. 2014. U.S. Rail Transportation of Crude Oil: Background and Issues for Congress. Congressional Research Service, 7-5700, R43390. December 4. Website (http://fas.org/sgp/crs/misc/R43390.pdf) accessed March 25, 2015.
- Gray, D. K., T. H. Johengen, D. F. Reid, and H. J. MacIsaac. 2007. Efficacy of open-ocean ballast water exchange as a means of preventing invertebrate invasions between freshwater ports. *Limnology* and Oceanography 52(6): 2386-2397.
- Harding, Matt. Environmental Project Manager, Port of Vancouver. 2015. Email to Patricia Betts, Energy Facility Site Evaluation Council, Environmental Planner, June 25, 2015.
- Howe, Dave. Regional Habitat Program Manager, Washington Department of Fish and Wildlife. 2015. Letter to Justin Allegro, Renewable Energy Section Manager, WDFW, Subject: Advisory Provisions for the Tesoro-Savage Oil Terminal, April 16.
- InsideClimate News, 2014. Does Keystone XL Have a Place in the Oil-by-Rail Safety Debate? January 17.
- Kinder Morgan. 2015a. Trans Mountain Pipeline Expansion Project. Website (http://www.kindermorgan.com/pages/business/canada/tmx_expansion.aspx) accessed July 20, 2015.
- Kinder Morgan. 2015b. Puget Sound System, Website (http://www.kindermorgan.com/business/canada/puget_sound.aspx) accessed July 20, 2015.
- Lower Columbia Region Harbor Safety Committee (LCRHSC). 2013. Lower Columbia Region Harbor Safety Plan. January.

- Marine Fire & Safety Association (MFSA). 2014. Communications System. Website (http://www.mfsa.com/communications) accessed February 27, 2015.
- National Oceanic and Atmospheric Administration (NOAA). 2014. United States Coast Pilot 7 Pacific Coast: California, Oregon, Washington, Hawaii, and Pacific Islands, 46th Edition.
- North Dakota Pipeline Authority. 2014. Annual Report July 1, 2013 June 30, 2014. Website (http://www.nd.gov/ndic/pipe/publica/annual-report14.pdf) accessed March 18, 2015.
- Northern Gateway. 2015. Northern Gateway. Website (http://www.gatewayfacts.ca/About-The-Project/Project-Overview.aspx) accessed July 20, 2015.
- Oil and Gas Journal. 2011. Trucking the Bakken, July 25, 2011. Website (http://www.ogj.com/articles/print/volume-109/issue-30/regular-features/journally-speaking/trucking-the-bakken.html) accessed March 24, 2015.
- Oil & Gas Journal. 2013. Par Petroleum Unit Closes Purchase of Tesoro Hawaii Refinery. September 27. Website (http://www.ogj.com/articles/2013/09/par-petroleum-unit-closes-purchase-of-tesorohawaii-refinery.html) accessed February 27, 2015.
- Oil & Gas Journal. 2014 (June 9). Washington Refinery Finds New Owner. Website (http://www.ogj.com/articles/2014/06/washington-refinery-finds-new-owner.html) accessed February 27, 2015.
- Oregon Department of Environmental Quality (ODEQ). 2015. Oregon Task Force on the Shipping Transport of Aquatic Invasive Species, Report to the 2015 Legislature.
- Petro Star, Inc. 2015. Refining. Website (http://www.petrostar.com/divisions/refining) accessed February 27, 2015.
- Phillips 66. 2014. Refining. Website (http://www.phillips66.com/EN/about/our-businesses/refining-marketing/refining/Pages/index.aspx) accessed February 27, 2015.
- Port of Vancouver (Port). 2013. Rail Routes Map. January 31. Website (http://www.portvanusa.com/resources/rail-routes/) accessed July 30, 2015.
- Port of Vancouver (Port). 2014. Port able to market prime property at Terminal 5 as BHP Billiton exclusivity agreement expires. June 20. Website (http://www.portvanusa.com/news-releases/port-able-market-prime-property-terminal-5-bhp-billiton-exclusivity-agreement-expires/) accessed July 30, 2015.
- Port of Vancouver (Port). 2015. West Vancouver Freight Access. Website (http://www.portvanusa.com/wvfa/wvfa-home/) accessed February 28, 2015.
- Reuters. 2015. Kinder Morgan says Freedom Pipeline project is gaining refiner interest. January 28.
- South Coast Air Quality Management District (SCAQMD). 2014 (Sept. 9). Notice or Preparation of Draft Environmental Impact Report – Tesoro Refining & Marketing Company, LLC Los Angeles Refinery Integration and Compliance Project. Website (http://www.aqmd.gov/docs/defaultsource/ceqa/documents/permit-projects/2014/tesoro_nop_is.pdf?sfvrsn=2) accessed February 27, 2015.

- US Army Corps of Engineers (USACE). 2015. Memorandum for Record. Subject: Revised Permit Application Evaluation Procedure. Reference: NWS-2013-962; Tesoro Savage Vancouver Energy Distribution Terminal. May 28.
- URS Corporation. 2007. Pacific Mountain Energy Center Draft Environmental Impact Statement. Prepared by URS Corporation. May 2007.
- US Energy Information Administration. 2015. U.S. Energy Mapping System. Website (http://www.eia.gov/state/maps.cfm?v=Petroleum) accessed July 30, 2015.
- US Environmental Protection Agency (EPA). 2014. Intermodal Shipping: A Glance at Clean Freight Strategies, SmartWay Transport Partnership. Website (http://www.epa.gov/smartway/forpartners/documents/trucks/techsheets-truck/420f09039.pdf) accessed March 25, 2015.
- US Government Accountability Office. 2014. Report to Congressional Requesters. Oil and Gas Transportation. Department of Transportation is Taking Actions to Address Rail Safety, but Additional Actions are Needed to Improve Pipeline Safety. GAO-14-667. August. Website (http://www.gao.gov/assets/670/665404.pdf) accessed March 22, 2015.
- Washington State Department of Ecology (Ecology). 2008. Criteria for Sewage Works Design, Water Quality Program, August. Website (https://fortress.wa.gov/ecy/publications/publications/9837.pdf) accessed March 18, 2015.
- Washington State Department of Ecology (Ecology). 2015. Washington State 2014 Marine and Rail Oil Transportation Study. Publication Number 15-08-010, March 1.
- Williams, S., L. Jones, and J. Rose. 2012. Reportable Accidents Across Canada in 2011. *Transport Canada Summer 2012 Newsletter* 32 (1). | ISSN 0828-5039 | Agreement Number 40063845. Website (http://www.tc.gc.ca/eng/tdg/newsletter-summer-2012-1148.htm#article3) accessed March 25, 2014.

WorleyParsons. 2014. Vessel Traffic Risk Assessment Traffic Impact Analysis. September.

SECTION 3.0, AFFECTED ENVIRONMENT, IMPACTS, AND MITIGATION MEASURES

- Federal Railway Administration (FRA). 2015. Federal Railroad Administration Issues Directive to Replace Unapproved Tank Car Valves. Website (https://www.fra.dot.gov/eLib/details/L16259) accessed September 18, 2015.
- Washington State Department of Ecology (Ecology). 2011. Managing Washington's Coast: Washington's Coastal Zone Management Program. Publication 00-06-029, February 2001. Website (https://fortress.wa.gov/ecy/publications/documents/0006029.pdf) accessed September 12, 2015.

SECTION 3.1, EARTH RESOURCES

Allen, J.E., S.F. Burns, and M. Burns. 2009. Cataclysms on the Columbia. Ooligan Press, Portland, OR.

- Atwater, B.F., A.R. Nelson, J.J. Clague, G.A. Carver, T. Bobrowsky, J. Bourgeois, M.E. Darienzo, W.C. Grant, E. Hemphill-Haley, H.M. Kelsey, G.C. Jacoby, S.P. Nishenko, S.P., Palmer, C.D. Peterson, and M.A. Reinhart, and D.K. Yamaguchi. 1995. Summary of coastal geologic evidence for past great earthquakes at the Cascadia subduction zone. *Earthquake Spectra* 11: 1–18.
- Atwater, B.F., M.R. Satoko, S. Kenji, T. Yoshinobu, U. Kazue, and D.K. Yamaguchi. 2005. The orphan tsunami of 1700: Japanese clues to a parent earthquake in North America. UGSG Professional Paper 1707.
- BergerABAM 2014. Application for Site Certification and Supplements.
- BergerABAM. 2015. Vancouver Energy Project Description Updates for Draft Environmental Impact Statement (DEIS) Development. May 27.
- Blais-Stevens, A., G.C. Rogers, J.J. and Clague. 2011. A revised earthquake chronology for the last 4000 years inferred from varve-bounded debris-flow deposits beneath an Inlet near Victoria, British Columbia. *Bulletin of the Seismological Society of America* 101 (1): 1-12.
- Burns, W.J. and nine co-authors. 2012. Multi-Hazard and risk study of the Mount Hood region, Multnomah, Clackamas, and Hood River counties, Oregon. *Oregon Department of Geology and Mineral Industries, Open-File Report* O-11-16.
- Cascades Volcano Observatory. 2015. Data/maps available online at http://volcanoes.usgs.gov/observatories/cvo/.
- Clague, J.J., P.T. Bobrowsky, I. and Hutchinson. 2000. A review of geological records for large tsunamis at Vancouver Island, British Columbia and implications for hazard. *Quaternary Science Reviews* 19: 849-863.
- Cooper, T.W. 1997. A study of the performance of petroleum storage tanks during earthquake 1933-1995. *National Institute of Standards and Technology Report* NIST GCR 97-720.
- Czajkowski J.L., and J.D. Bowman. 2014. Faults and earthquakes in Washington State. *Washington Division of Geology and Earth Resources, Open File Report* 2014-05.
- Dames & Moore. 1985. Report of Geotechnical Investigation, Proposed Berth 8 Expansion, Port of Vancouver, WA.
- Energy Facility Site Evaluation Council (EFSEC). 2013. Tesoro Savage Vancouver Energy Distribution Terminal, Determination of Significance Scoping Notice, Notice of Initial Public Meeting, and Notice of Public Scoping Meeting. October 1. Website (http://www.efsec.wa.gov/Tesoro%20Savage/Tesoro%20legal%20Scoping%20notice%20Final% 2010-1-13.pdf) accessed March 1, 2015.
- Evarts, R.C., J.E. O'Connor, R.E. Wells, and I.P. Madin. 2009. The Portland Basin: A (big) river runs through it. *GSA Today* 19:9.
- Fiksdal, A.J. 1975. Slope stability of Clark County, Washington and Oregon. Washington Division of Geology and Earth Resources, Open File Report 75-10.

- Geotechnical Resources, Inc. (GRI). 2013. Final Geotechnical Investigation of Tesoro Savage Vancouver Energy Distribution Terminal—Upland Facility, Port of Vancouver. Prepared for BergerABAM.
- Goldfinger, C., C.H. Nelson, A. Morey, J.E. Johnson, J. Patton, E. Karabanov, J. Gutierrez-Pastor, A.T. Eriksson, E. Gracia, R. Enkin, A. Dallimore, G. Dunhill, and T. Vallier. 2012. Turbidite event history: methods and implications for holocene paleoseismicity of the Cascadia Subduction Zone. US Geological Survey Professional Paper 1661-F.
- Goldfinger, C., A.E. Morey, B. Black, J. Beeson, C.H. Nelson, and J. Patton, 2013. Spatially limited mud turbidites on the Cascadia margin: segmented earthquake ruptures? *Natural Hazards and Earth Systems Science* 13: 2109–2146.
- Hayward Baker, Inc. 2014. Geologic Engineering Reports for the Vancouver Energy Project.
- Kelsey, H.M., A.R. Nelson, E. Hemphill-Haley, and R. Witter. 2005. Tsunami history of an Oregon coastal lake reveals a 4600 yr record of great earthquakes on the Cascadia subduction zone. *Geological Society of America Bulletin* 117: 1009–1032.
- Lidke, D.J., S.Y. Johnson, P.A. McCrory, S.F. Personius, A.R. Nelson, R.I. Dart, L. Bradley, K.M. Haller, and M.N. Machette. 2003. Map and data for Quaternary faults and folds in Washington. US Geological Survey Open-File Report 03-428.
- L.R. Squier Associates Inc. 1976. Preliminary Report, Foundation Investigation, New Wharf, Port of Vancouver, WA.
- L.R. Squier Associates Inc. 1981. Geotechnical Investigation, Proposed Berth #8 Extension, Port of Vancouver, WA.
- Mabey, M.A., I.P. Madin, T.L. Youd, and C.F. Jones. 1993. Earthquake hazard maps of the Portland quadrangle, Multnomah and Washington counties, Oregon, and Clark County, Washington. *Oregon Department of Geology and Mineral Industries, Geologic Map Series* 79.
- McGarr, A., and R.C. Vorhis. 1965. Seismic seiches from the March 1964 Alaska earthquake. USGS Professional Paper 544-E.
- Natural Resource Conservation Service. 1972. Soil survey, Clark County.
- Nelson, A.R., H.M. Kelsey, and R.C. Witter. 2006. Great earthquakes of variable magnitude at the Cascadia subduction zone. *Quaternary Research* 65: 354–365.
- O'Connor, J.E., and S.F. Burns. 2009. Cataclysms and controversy Aspects of the geomorphology of the Columbia River Gorge. *Geological Society of America Field Guide* 15: 237-251.
- Oregon Department of Geology and Mineral Industries (DOGAMI). 2015a. Database and GIS file of Oregon Active Faults. Available online at http://www.oregongeology.org/sub/gtilo/data/ORActiveFault.zip.
- Oregon Department of Geology and Mineral Industries (DOGAMI). 2015b. Oregon HazVu: Statewide GeoHazards Viewer. Available online at http://www.oregongeology.org/hazvu/.
- Orr, W., and E. Orr. 1996. Geology of the Pacific Northwest. McGraw-Hill.

Pacific Tsunami Warning Center. 2015. Available online at http://ptwc.weather.gov/.

- Palmer, S.P., S.L. Magsino, J.L. Poelstra, and R.A. Niggemann. 2004. Alternative liquefaction susceptibility map of Clark County, Washington, based on Swanson's Groundwater Model. Washington State Department of Natural Resources, Division of Geology and Earth Resources.
- Personius, S.F., R.L. Dart, L.A. Bradley, and K.M. Haller. 2003. Map of quaternary faults and folds in Oregon. USGS Open File Report 03-095.
- Petersen, M.D., M.P.Moschetti, P.M.Powers, C.S. Mueller, K.M.Haller, A.D.Frankel, Y. Zeng, S. Rezaeian, S.C. Harmsen, O.S. Boyd, N. Field, R. Chen, K.S. Rukstales, N. Luco, R.L. Wheeler, R.A. Williams, and A.H. Olsen. 2014. Documentation for the 2014 update of the United States national seismic hazard maps: U.S. Geological Survey Open-File Report 2014–1091.
- Peterson, C.D., R. Minor, G.L. Peterson, and E.B. Gates. 2011. Pre-and post-Missoula flood geomorphology of the Pre-Holocene ancestral Columbia River Valley in the Portland forearc basin, Oregon and Washington, USA. *Geomorphology* 129:276–293.
- Phillips, W.M. 1987. Geologic map of the Vancouver quadrangle, Washington and Oregon. Open File Report 87-10. Washington Division of Geology and Earth Resources.
- Pierson, T., R.C. Evarts, and J.A. Bard. 2014. Finding New and Complex Landslides in Forested Terrain: Mapping Using LiDAR in the Western Columbia River Gorge. *Geological Society of America Abstracts with Programs* 46 (6): 14.
- Satake, K., K. Wang, and B.F. Atwater. 2003. Fault slip and seismic moment of the 1700 Cascadia earthquake inferred from Japanese tsunami descriptions. Journal of Geophysical Research 108 (B110: 2535 (10.1029/2003JB002521).
- Scott, W.E., R.M. Iverson, J.W. Vallance, and W. Hildreth. 1995. Volcano hazards in the Mount Adams Region, Washington. US Geological Survey Open-File Report 95-492.
- Scott, W.E., T.C. Pierson, S.P. Schilling, J.E. Costa, C.A. Gardner, J.W. Vallance, and J.J. Major. 1997. Volcano Hazards in the Mt. Hood Region, Oregon. US Geological Survey Open-File Report 97-89.
- Sirotek, Ernie. 2002. Union Pacific Railroad, Emergency Response. Cupertino ARES general meeting, Orientation Training, Cupertino City Hall, January 2.
- Swanson, R.D., W.D. McFarland, J.B. Gonthier, and J.M. Wilkinson. 1993. A description of hydrogeologic units in the Portland Basin, Oregon and Washington, Water-Resources Investigations Report, USGS Open-File Report 90-4196.
- Tolan, T.L., and M.H. Beeson. 1984. Intracanyon flows of the Columbia River Basalt group in the lower Columbia River Gorge and their relationship to the Troutdale Formation. *Geological Society of America Bulletin* 95:463–477.
- Trimble, D.E. 1963. Geology of Portland, Oregon, and adjacent areas. USGS Bulletin 1119.
- US Geologic Survey (USGS). 2002. Cascadia Earthquake Graphics. Available online at http://geomaps.wr.usgs.gov/pacnw/pacnweq/casceq.html.

- US Geological Survey (USGS). 2006. Quaternary fault and fold database for the United States. USGS website (http://earthquakes.usgs.gov/regional/qfaults/) accessed Jan 9, 2015.
- US Geological Survey (USGS). 2015. Earthquake Hazards Program. Available online at http://earthquake.usgs.gov/.
- URS Corporation. 2011a. Report of Geotechnical Investigation, Terminal 5 Bulk Handling Facility, Port of Vancouver, WA.
- URS Corporation. 2011b. Final Report of Seismic Hazard Study, Terminal 5 Bulk Handling Facility, Port of Vancouver, WA.
- Vancouver Energy. 2015. Response to EFSEC Data Request 2. February 23, 2015.
- Walsh, T.J., C.G. Caruthers, A.C. Heinitz, E.P. Myers III, 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.
- Washington Division of Geology and Earth Resources. 2007. The Rock Creek Landslide Near Stevenson. *DGER News* 4 (N1): 1-2.
- Washington Division of Geology and Earth Resources. 2013. Washington State seismogenic features– GIS data. August. Available online at http://www.dnr.wa.gov/Publications/ger_portal_seismogenic_features.zip.
- Washington Division of Geology and Earth Resources. 2014. Washington State landslides and landforms–GIS data. December. Washington Division of Geology and Earth Resources Digital Data Series DS-12, Version 2.0. Available online at http://www.dnr.wa.gov/publications/ger_portal_landslides_landforms.zip.
- Wolfe, E.W., and T.C. Pierson. 1995. Volcanic-hazard zonation for Mount St. Helens, Washington. USGS Open-File Report 95-497.
- Yeh, H., E. Tolkova, D.A. Jay, S. A. Talke, and H. Fritz. 2012. Tsunami Hydrodynamics in the Columbia River. Civil and Environmental Engineering Faculty Publications and Presentations. Paper 106. Available online at http://pdxscholar.library.pdx.edu/cengin_fac/106.

SECTION 3.2, AIR QUALITY

- Associated General Contractors of Washington (AGC). 2009. Guide to Handling Fugitive Dust from Construction Projects. February.
- BergerABAM. 2014. Preliminary Draft Environmental Impact Statement for the Tesoro-Savage Vancouver Energy Distribution Terminal. July.
- Bishop, Ric. Chief Corrections Deputy, Clark County Washington Office of the Sheriff. 2015. Memorandum to Axel Swanson, Senior Policy Analyst, Clark County.

- Burlington Northern Santa Fe (BNSF) Railway. 2014. Letter communication re: Proposed Vancouver Energy Project from F.E. Kalb, Jr., to Kelly Flint, Senior VP and General Counsel, Savage Companies. August 28.
- California Air Resources Board (CARB). 2005. Air Quality and Land Use Handbook: A Community Health Perspective. April.
- 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.
- DNV. 2011. Greener Shipping in North America. February.
- ENVIRON International Corporation (ENVIRON). 2014. Vancouver Energy Air Quality Technical Report. Prepared for BergerABAM. August.
- Hamlet A.F. 2001. Effects of Climate Change on Water Resources in the Pacific Northwest: Impacts and Policy Implications. Preparatory White Paper for Climate and Water Policy Meeting, Skamania, Washington, July 16-17. Available online at http://cses.washington.edu/db/pdf/hamleteffectsofcc36.pdf.
- Hinck, J.E., C.J. Schmitt, T.M. Bartish, N.D. Denslow, V.S. Blazer, P.J. Anderson, J.J. Coyle, G.M. Dethloff, and D.E. Tillitt. 2004. Biomonitoring of Environmental Status and Trends (BEST) Program: Environmental Contaminants and Their Effects on Fish in the Columbia River Basin. USGS Scientific Investigations Report 2004-5154.
- Kittelson Associates, Inc. 2014. Tesoro Savage Vancouver Energy Distribution Terminal Transportation Impact Analysis. Project # 13574.0. July.
- Melillo, J.M., T.C. Richmond, and G.W. Yohe, eds., 2014. Climate Change Impacts in the United States: The Third National Climate Assessment. US Global Change Research Program.
- Oregon Department of Land Conservation and Development. 2010. The Oregon Climate Change Adaptation Framework. Available online at http://www.oregon.gov/ENERGY/GBLWRM/docs/Framework_ Final_DLCD.pdf.
- US Environmental Protection Agency (EPA). 1992. Guideline for Modeling Carbon Monoxide from Roadway Intersections. EPA-454/R-92-005. Office of Air Quality Planning and Standards. Research Triangle Park. NC. November.
- US Environmental Protection Agency (EPA). 1996a. AP-42: Compilation of Air Pollutant Emissions Factors, Section 3.3, Gasoline and Diesel Engines. October.
- US Environmental Protection Agency (EPA). 1996b. Approval and Promulgation of Maintenance Plan for Air Quality Planning Purposes for the State of Washington: Carbon Monoxide. Final Rule. FR 61 (204). October 21.
- US Environmental Protection Agency (EPA). 1996b. Approval and Promulgation of Implementation Plans: Washington, Direct Final Rule. FR 61(101). May 23.
- US Environmental Protection Agency (EPA). 1996c. AP-42: Compilation of Air Pollutant Emissions Factors, Section 3.3, Gasoline and Diesel Engines. October.

- US Environmental Protection Agency (EPA). 2009a. Endangerment and Cause or Contribute Finding for Greenhouse Gases under Section 202(a) of the Clean Air Act; Final Rule. FR 74 (239). December 15.
- US Environmental Protection Agency (EPA). 2009b. Columbia River Basin: State of the River Report for Toxics. EPA 910-R-08-004. Available online at http://www2.epa.gov/sites/production/files/documents/columbia_state_of_the_river_report_jan20 09.pdf. Region 10. January.
- US Environmental Protection Agency (EPA). 2010. Designation of North American Emission Control Area to Reduce Emissions from Ships. EPA-420-F-10-015. Office of Transportation and Air Quality, Ann Arbor, MI. March.
- US Environmental Protection Agency (EPA). 2011. Additional Clarification Regarding Application of Appendix W Modeling Guidance for the 1-hour NO2, National Ambient Air Quality Standard. Memo from T. Fox, Leader, Air Quality Modeling Group, C439-01, to Regional Air Division Directors, March 1.
- US Environmental Protection Agency (EPA). 2013a. Glossary of Climate Change Terms. Website (http://www.epa.gov/climatechange/glossary.html) accessed on January 27, 2015.
- US Environmental Protection Agency (EPA). 2013b. Control of Emissions from Idling Locomotives. EPA-420-F-13-050. Office of Transportation and Air Quality, Ann Arbor, MI. December.
- US Environmental Protection Agency (EPA). 2014a. National Ambient Air Quality Standards (NAAQS). Website (http://www.epa.gov/air/criteria.html) accessed on February 5, 2015.
- US Environmental Protection Agency (EPA). 2014b. AirData. Website (http://www.epa.gov/airquality/airdata) accessed on February 18, 2014.
- Vancouver Energy. 2014. Revised Air Permit Application and Notice of Construction. Application No. 2013-01. Docket No. EF 131590. August. Website (http://www.efsec.wa.gov/Tesoro%20Savage/Application/Amended%20Application%20Feb%20 2014/Vol%201/Suppl201301%20Part%205%20Applicationsfo.pdf) accessed on June 18, 2015.
- Walker, L., M. A. Figliozzi, A. R. Haire, and J. MacArthur. 2011. Climate Action Plans and Long Range Transportation Plans in the Pacific Northwest and Alaska, State of the Practice in Adaptation Planning. *Transportation Research Record: Journal of the Transportation Research Board* 2252: 118-126.
- Washington State Department of Ecology (Ecology). 2011a. A Monte Carlo approach to estimating impacts from highly intermittent sources on short term standards. C. Bowman and R. Dhammapala. Presentation at the Northwest International Air Quality Environmental Science and Technology Consortium. June 1.
- Washington State Department of Ecology (Ecology). 2011b. Guidance for Ecology Including Greenhouse Gas Emissions in SEPA Reviews. Website (http://www.ecy.wa.gov/climatechange/docs/sepa/20110603_SEPA_GHGinternalguidance.pdf) accessed on February 4, 2015.

- Washington State Department of Ecology (Ecology). 2011c. Columbia River Basin Long-Term Water Supply and Demand Forecast. Publication No. 11-12-011. Available online at https://fortress.wa.gov/ecy/publications/publications/1112011.pdf.
- Washington State Department of Ecology (Ecology). 2013. Chapter 173-476 WAC, Ambient Air Quality Standards. Website (https://fortress.wa.gov/ecy/publications/SummaryPages/173476.html) accessed on February 5, 2015.
- Washington State Department of Ecology (Ecology). 2014a. Washington State Greenhouse Gas Emissions Inventory 2010—2011. Publication No. 14-02-024.Olympia, WA. December.
- Washington State Department of Ecology (Ecology). 2014b. 2011 Comprehensive Emissions Inventory Summary Data. Available at: http://www.ecy.wa.gov/programs/air/EmissionInventory/AirEmissionInventory.htm, accessed on February 5, 2015.
- Washington State Department of Ecology (Ecology). 2015. Nonattainment & Maintenance Areas. Website (http://www.ecy.wa.gov/programs/air/sips/designations/maintenance_areas.htm) accessed February 17, 2015.
- Western Regional Climate Center. 2015. VANCOUVER 4 NNE, WASHINGTON (458773). Website (http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?wavanc) accessed August 6, 2015.

SECTION 3.3, WATER RESOURCES

- Anchor Environmental, LLC. 2008. Remedial Investigation/Feasibility Study, ALCOA/Evergreen Vancouver Site. September.
- BergerABAM. 2013. Field investigations, May 28 and June 27, 2013, to identify and document biological resources, wetlands, and OHWM delineation.
- BergerABAM. 2014. Preliminary Draft Environmental Impact Statement for the Tesoro-Savage Vancouver Energy Distribution Terminal. July.
- BergerABAM. 2015a. National Pollutant Discharge Elimination System Permit Engineering Report for EFSEC Application No. 2013-01, Docket No. EF131590. February 27.
- BergerABAM. 2015b. Vancouver Energy Construction Stormwater Pollution Prevention Plan for EFSEC Application No. 2013-01, Docket No. EF131590. February 27.
- BergerABAM. 2015c. Vancouver Energy Contaminated Media Management Plan for EFSEC Application No. 2013-01, Docket No. EF131590. February 27.
- Clark County. 2015. MapsOnline. Website (http://gis.clark.wa.gov) accessed June 26, 2015.
- Clark County. No date. Columbia River floods. Website (http://www.clark.wa.gov/publicworks/flood/documents/ColumbiaRiverandfloods.pdf) accessed December 12, 2013.
- Columbia River Crossing (CRC). 2011 Columbia River Crossing Test Pile Project Hydroacoustic Monitoring. Final Report. July.

- Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of Wetlands and Deepwater Habitats in the United States. US Department of the Interior, Fish & Wildlife Service, FWS/OBS-79/31.
- Federal Emergency Management Agency (FEMA). 2015. Flood Map Service Center. Website (http://msc.fema.gov/portal) accessed January 29, 2015.
- Graves, M. 2013a. Email from M. Graves, Environmental Manager, Port of Vancouver, Vancouver, WA, to S. Bailey, Louis Berger Group, Seattle, WA, regarding wells on Port property. November 14, 2013.
- Graves, M. 2013b. Email from M. Graves, Environmental Manager, Port of Vancouver, Vancouver, WA, to S. Bailey, Louis Berger Group, Seattle, WA, regarding wells on Port property. November 13, 2013.
- Graves, M. 2013c. Email from M. Graves, Environmental Manager, Port of Vancouver, Vancouver, WA, to S. Bailey, Louis Berger Group, Seattle, WA, regarding wells on Port property. November 5, 2013.
- GRI. 2013. Tesoro Savage Vancouver Energy Distribution Terminal-Upland Facility Port of Vancouver, USA Geoechnical Investigation. Prepared for BergerABAM. December 20, 2013.
- Halpert, M.S., and G.D. Bell. No date. Climate assessment for 1996. Website (http://www.cpc.ncep.noaa.gov/products/assessments/assess_96/toc.html) accessed February 18, 2014. National Oceanic and Atmospheric Administration, National Weather Service, National Center for Environmental Predictions, Climate Prediction Center, Washington, DC.
- HDR Engineering, Inc. 2013. West Vancouver Freight Access: Terminal 5 Expansion (4000A and SPL), Final Hydrologic and Hydraulic Analysis Report. Case Number ENG2012-00016. Project PRJ2012-00414. Prepared for the Port of Vancouver. Portland, OR.
- Houser. 2011. Sediment resuspension by vessel-generated waves along the Savannah River, Georgia. *Journal of Waterway, Port, Coastal, and Ocean Engineering*. doi:10.1061/(ASCE)WW.1943-5460.0000088.
- Idaho Department of Environmental Quality (IDEQ). 2009. The Spokane Valley Rathdrum Prairie Aquifer Atlas 2009 Update.
- Idaho Department of Environmental Quality (IDEQ). 2014. Sole source aquifers. Website (http://www.deq.state.id.us/water-quality/ground-water/sole-source-aquifers.aspx) accessed March 26, 2014, updated 2014.
- JD White Company. 2009. Rail Access Project Wetland Delineation Report. Vancouver, WA. March 2007, revised March 2009.
- Johnson and Norton. 2005. Concentrations of 303(d) Listed Pesticides, PCBs, and PAHs Measured with Passive Samplers Deployed in the Lower Columbia River. Ecology 05-03-006. March 2005.

- Liedermann, M., M. Tritthar, P. Gmeiner, M. Hinterleitner, E. Schuldermann, H. Keckeis, and H. Habersack. 2014. Typification of Vessel Induced Waves and their Interaction with Different Bank Types, including Management Implications for River Restoration Projects. *Hydrobiologica* 729:17-31. [World's Large Rivers Conference].
- Lower Columbia Fish Recovery Board. 2004. Lower Columbia Salmon Recovery and Fish and Wildlife Subbasin Plan, Volume II—Subbasin Plans. December 15.
- Lower Columbia River Estuary Partnership. 2010. Report on the Estuary. Lower Columbia River Estuary Partnership.
- McFarland, W.D., and D.S. Morgan. 1996. Description of the ground-water flow system in the Portland Basin, Oregon and Washington. USGS Water Supply Paper 2470-A.
- Montana Department of Natural Resources and Conservation. 2012. State of Montana RiskMAP: Increasing Resilience Together, Business Plan. Prepared for the Federal Emergency Management Agency and the Department of Homeland Security. April. Website (http://dnrc.mt.gov/wrd/water_op/floodplain/mapping/mt_riskmap_project.pdf) accessed August 12, 2014.
- McCabe, Martin. 2015. Monitoring of Ground Improvement During Construction, Tesoro Savage-Area 400 Marine Terminal. Technical Memorandum. Prepared for Cardno, prepared by AECOM. July 15.
- Northwest Area Committee (NWAC). 2003. Lower Columbia River Geographic Response Plan. Washington Department of Ecology Publication No. 95-258 (revised 11-03).

Northwest Area Committee (NWAC). 2011. Spokane River GRP. July 2011.

Northwest Area Committee (NWAC). 2015. NAC Middle Columbia River GRP Draft. April 2015.

- National Oceanographic and Atmospheric Administration (NOAA). 2015a. Station Data for Vancouver, WA ID # 9440083. Website (http://tidesandcurrents.noaa.gov/stationhome.html?id=9440083) accessed August 10, 2015.
- National Oceanographic and Atmospheric Administration (NOAA). 2015b. Station Summary for Vancouver 4NNE, WA, US #458773. Website (http://www.ncdc.noaa.gov/cdo-web/datasets/ANNUAL/stations/COOP:458773/detail) accessed August 10, 2015.
- Oregon Spatial Data Library. No date. Oregon Surface Water Drinking Water Source Areas. Website (http://spatialdata.oregonexplorer.info/geoportal/rest/document?id=%7BBD6FD933-A183-4A4C-8314-AF1FC4613CB7%7D) accessed August 10, 2015.
- Oregon Water Resources Department. 2014. Oregon Water Right Points of Diversion. Website (http://tater.wrd.state.or.us/data/wr_pod_metadata.pdf) accessed August 10, 2015.
- Pearson, W.H., and J.R. Skalski. 2011. Factors Affecting Stranding of Juvenile Salmonids by Wakes from Ship Passage in the Lower Columbia River. *River Research and Applications* 27:925-936.

- Puget Sound Regional Council. 2010. Transportation 2040 Final Environmental Impact Statement. Chapter 9 Water Quality and Hydrology. March. Website (http://www.psrc.org/assets/3684/09-Water_Quality_and_Hydrology-v7.pdf) accessed August 10, 2015.
- Schmall, R. 2013. Email from R. Schmall, Project Manager, Washington State Department of Ecology Southwest Region, Toxics Cleanup Program, Vancouver WA, to J. Medema, Louis Berger Group, Portland, OR, regarding contaminated sites near Port of Vancouver, Vancouver, WA, October 29, 2013
- Simenstad, C.A., J.L. Burke, J.E. O'Connor, and C. Cannon. 2011. Columbia River Estuary Ecosystem Classification-Concept and Application. USGS Open File Report 5 2011-1228.
- Swanson, R.D., W.D. McFarland, J.B. Gonthier, and J.M. Wilkinson. 1993. A description of hydrogeologic units in the Portland Basin, Oregon and Washington. USGS Water Resources Investigation Report 90-4196.
- Trimble. 1963. Geology of the Portland, Oregon, and adjacent areas. USGS Bulletin 1119.
- US Army Corps of Engineers (USACE). 2015a. Columbia River Channel Improvement Project Website (http://www.nwp.usace.army.mil/Missions/Current/Columbiariverchannel.aspx) accessed March 30, 2015.
- US Army Corps of Engineers (USACE). 2015b. Memorandum for Record. Subject: Revised Permit Application Evaluation Procedure. Reference: NWS-2013-962; Tesoro Savage Vancouver Energy Distribution Terminal. May 28.
- US Environmental Protection Agency (EPA). 1991. Total Maximum Daily Loading (TMDL) to limit discharges of 2,3,7,8-TCDD (Dioxin) to the Columbia River Basin. USEPA Region 10 February 25, 1991.
- US Environmental Protection Agency (EPA). 2006. Final support document for sole source aquifer designation of the Troutdale Aquifer System. EPA 910-R-06-006. July.
- US Environmental Protection Agency (EPA). 2007. National Estuary Program Coastal Condition Report. (EPA-842/B-06/001 2006). Website (http://water.epa.gov/type/oceb/nep/upload/2007_05_09_oceans_nepccr_pdf_large_nepccr_cover .pdf) accessed August 10, 2015.
- US Environmental Protection Agency (EPA). 2009. Columbia River Basin: State of the River Report for Toxics. EPA 910-R-08-004. January.
- US Environmental Protection Agency (EPA). 2013a. Superfund Information Systems Superfund site progress profile – ALCOA (Vancouver Smelter). Website (http://cumulis.epa.gov/supercpad/cursites/csitinfo.cfm?id=1000597) accessed October 15, 2013, updated November 12, 2013.
- US Environmental Protection Agency (EPA). 2013b. Information from CERCLIS database website. Website (http://www.epa.gov/superfund/sites/cursites) accessed October 15, 2013.

- US Environmental Protection Agency (EPA), Region 10. 2014. Sole source aquifer maps Troutdale (map prepared 2008). Website (http://yosemite.epa.gov/r10/water.nsf/Sole+Source+Aquifers/ssamaps) accessed April 10, 2014, updated April 10, 2014.
- US Environmental Protection Agency (EPA). 2015. Toxics Reduction Working Group. Website (http://www2.epa.gov/columbiariver/toxics-reduction-working-group) accessed August 9, 2015.
- US Federal Highway Administration, Federal Transit Administration, Washington State Department of Transportation, Oregon State Department of Transportation, Southwest Washington Regional Transportation Council, Metro, Clark County Public Transportation Benefit Area, and Tri-County Metropolitan Transportation District. 2011. Interstate 5 Columbia River Crossing Project Final Environmental Impact Statement. September 7.
- US Fish and Wildlife Service (USFWS). 1989. National Wetland Inventory: Vancouver quadrangle, Washington [Map]. 1:24,000. 7.5 Minute Series. Portland, OR.
- US Geological Survey (USGS). 1994. Ground water atlas of the United States: Idaho, Oregon, Washington HA 730-H. website (http://pubs.usgs.gov/ha/ha730/ch_h/) accessed March 26, 2014, updated February 9, 2009.
- US Geological Survey (USGS). 2005. Compilation of information for Spokane Valley–Rathdrum Prairie Aquifer, Washington and Idaho. *Scientific Investigations Report* 2005-5227. Website (http://pubs.usgs.gov/sir/2005/5227/section3.html) accessed March 26, 2014, updated January 10, 2013.
- US Geological Survey (USGS). 2014. National Hydrography Dataset.
- Washington State Department of Ecology (Ecology). 2011. Final supplemental cleanup action plan and schedule—East landfill area of concern ALCOA/Evergreen Vancouver site. June.
- Washington State Department of Ecology (Ecology). 2013a. Ecology toxics cleanup sites—Document repository for ALCOA Vancouver webpage. Website (https://fortress.wa.gov/ecy/gsp/CleanupSiteDocuments.aspx?csid=2867) accessed February 27, 2014. Updated on December 12, 2011.
- Washington State Department of Ecology (Ecology). 2013b. Washington State well log viewer. Website (https://fortress.wa.gov/ecy/waterresources/map/WCLSWebMap/default.aspx) accessed December 5, 2013. Updated 2013.
- Washington State Department of Ecology (Ecology). 2014. Columbia River facts and maps webpage. Website (http://www.ecy.wa.gov/programs/wr/cwp/cwpfactmap.html) accessed February 18, 2014.
- Washington State Department of Ecology (Ecology). 2015. Water Quality Permitting and Reporting Information System (PARIS). Monitoring data accessed via website (https://fortress.wa.gov/ecy/wqreports/public/f?p=110:1:0) accessed January 27, 2015.
- Washington State Department of Ecology (Ecology). No date. Water Diversions NHD. Website (http://www.ecy.wa.gov/services/gis/data/inlandWaters/waterdiversions.htm) accessed August 10, 2015.

- Washington State Department of Ecology (Ecology) and Oregon Department of Environmental Quality (ODEQ). 2002. Total Maximum Daily Load (TMDL) for Lower Columbia River Total Dissolved Gas. September 2002.
- Washington State Department of Health. No date. Drinking Water Wellhead Protection Areas. Website (http://www.doh.wa.gov/DataandStatisticalReports/DataSystems/GeographicInformationSystem/DownloadableDataSets) accessed August 10, 2015.
- Washington State Department of Natural Resources (WDNR). 2006. Forest Practices Application Mapping Tool. Available online at https://fortress.wa.gov/dnr/protectiongis/fpamt/index.html.

SECTION 3.4, TERRESTRIAL VEGETATION

- Berger ABAM. 2014a. Biological Evaluation Vancouver Energy Project. October 2014 Revised December 2014. A13.0267.00. Prepared for Vancouver Energy.
- Berger ABAM. 2014b. Vancouver Energy Project Preliminary Draft EIS.
- Biology Online. 2015. Ruderal. Website (http://www.biology-online.org/dictionary/Ruderal) accessed August 3, 2015.
- Clark County. 2013. 2013 Clark County noxious weed list. Department of Environmental Services, Vegetation Management, Brush Prairie, WA.
- Idaho Department of Fish and Game. 2005. Idaho comprehensive wildlife conservation strategy. Idaho Conservation Data Center, Idaho Department of Fish and Game, Boise, ID. Website (https://fishandgame.idaho.gov/public/wildlife/cwcs/) accessed August 3, 2015.
- Idaho State Department of Agriculture. 2015. Noxious weed list. Website (http://www.agri.idaho.gov/Categories/PlantsInsects/NoxiousWeeds/watchlist.php) accessed May 22, 2015.
- King County. 2008. Scotch Broom Best Management Practices. King County Department of Natural Resources and Parks Water and Land Resources Division, Noxious Weed Control Program, Seattle, WA.
- McKendrick, J.D. 1999. Arctic tundra recovery from crude oil after 24 years, Prudhoe Bay. *Agroborealis* 31(1): 28-35.
- Montana Department of Agriculture. 2014. Noxious weed list. Website (http://agr.mt.gov/agr/Programs/Weeds/MTNWEC/NoxiousWeeds.html) accessed February 28, 2014.
- Montana Natural Heritage Program (MNHP). 2014. Plant Species of Concern List. Species List. Last Updated 06/18/2014. Website (http://mtnhp.org/SpeciesOfConcern/?AorP=p) accessed April 30, 2015.
- North Dakota Department of Agriculture. 2015. Noxious Weeds. Website (http://www.nd.gov/ndda/program/noxious-weeds) accessed May 22, 2015.

- Oregon Department of Fish and Wildlife (ODFW). 2008. Sensitive Species List Organized By Taxa. Website (http://www.dfw.state.or.us/wildlife/diversity/species/docs/SSL_by_category.pdf) accessed May 1, 2015.
- US Fish and Wildlife Service (USFWS). 2014. Threatened and endangered species lists Washington, Idaho, Montana, and North Dakota. Available at: http://www.fws.gov/endangered/, accessed February 28, 2014.
- US Fish and Wildlife Service (USFWS). 2015. Listed species believed to or known to occur in Washington. Website (http://ecos.fws.gov/tess_public/reports/species-listed-by-state-report?state=WA&status=listed) accessed Feb 3 and March 31, 2015.
- US Forest Service (USFS) and Bureau of Land Management (BLM). 2011. Interagency Special-Status/Sensitive Species Program. Final Oregon/Washington State Director Special-Status Species List. December 1. Website (http://www.fs.fed.us/r6/sfpnw/issssp/agency-policy/) accessed May 24, 2015.
- US Geological Survey (USGS). 2011. Gap Analysis Program (GAP) national land cover, Version 2. August. Website (http://gapanalysis.usgs.gov/gaplandcover/data/) accessed April 12, 2014
- Walker, D.A., P.J. Webber, K.R. Everett, and J. Brown. 1978. Effects of crude and diesel oil spills on plant communities at Prudhoe Bay, Alaska, and the derivation of oil spill sensitivity maps. Arctic 31(3):242-259.
- Washington Department of Fish and Wildlife (WDFW). 2008. Priority habitat and species list. Olympia, WA.
- Washington Department of Fish and Wildlife (WDFW). 2014. Priority habitats and species web page: Species and habitat management recommendations. Website (http://wdfw.wa.gov/conservation/phs/mgmt_recommendations) accessed January 13, 2014.
- Washington Department of Fish and Wildlife (WDFW). 2015. Species of Concern in Washington state. Available online at http://wdfw.wa.gov/conservation/endangered/All/.
- Washington Natural Heritage Program (WNHP). 2012. Clark County list of rare plants. August. Website (http://www1.dnr.wa.gov/nhp/refdesk/lists/plantsxco/clark.html) accessed June 26, 2013.
- Washington Natural Heritage Program (WNHP). 2014. WNHP GIS Data Set. September 18. Website (http://www1.dnr.wa.gov/nhp/refdesk/gis/wnhpgis.html) accessed April 16, 2015.
- Washington State Department of Agriculture. 2014. Washington State noxious weed list. WA State Noxious Weed Control Board. Yakima, WA.
- Washington State Department of Ecology (Ecology). 2015. Non-Native, Invasive, Freshwater Plants. Website (http://www.ecy.wa.gov/Programs/wq/plants/weeds/index.html) accessed April 27, 2015.
- Washington State Department of Natural Resources (WDNR). 2011a. Ecological Integrity Assessments: Columbia Basin Foothill and Canyon Dry Grassland. Version 2.22.2011.

- Washington State Department of Natural Resources (WDNR). 2011b. Ecological Integrity Assessments: Northern Rocky Mountain Lower Montane, Foothill and Valley Grassland. Version 2.22.2011.
- Washington State Department of Natural Resources (WDNR). 2011c. Ecological Integrity Assessments: North Pacific Maritime Dry-Mesic Douglas-fir-Western Hemlock Forest and North Pacific Maritime Mesic-Wet Douglas-fir-Western Hemlock Forest. Version 2.22.2011.
- Washington State Department of Natural Resources (WDNR). 2011d. Ecological Integrity Assessments: North Pacific Intertidal Freshwater Wetland. Version 2.22.2011.
- Washington State Department of Natural Resources (WDNR). 2011e. Ecological Integrity Assessments: Columbia Basin Foothill and Canyon Dry Grassland. Version 2.22.2011.
- Washington State Department of Natural Resources (WDNR). 2011f. Ecological Integrity Assessments: North Pacific Maritime Coastal Sand Dune and Strand. Version 2.22.2011.
- Wiłkomirski, B., B. Sudnik-Wójcikowska, H. Galera, M. Wierzbicka, and M. Malawska. 2011. Railway transportation as a serious source of organic and inorganic pollution. *Water, Air and Soil Pollution* 218: 333-345. Website (http://dx.doi.org/10.1007/s11270-010-0645-0) accessed May 29, 2015.
- Wiłkomirski, B., H. Galera, B. Sudnik-Wójcikowska, T. Staszewski, and M. Malawska. 2012. Railway Tracks - Habitat Conditions, Contamination, Floristic Settlement - A Review. *Environment and Natural Resources Research* 2(1):86-96. Website (http://dx.doi.org/10.5539/enrr.v2n1p86) accessed May 29, 2015.

SECTION 3.5, TERRESTRIAL WILDLIFE

- Azerrad, J. M., K. A. Divens, M. F. Livingston, M. S. Teske, H. L. Ferguson, and J. L. Davis. 2011. Management recommendations for Washington's priority habitats: managing shrub-steppe in developing landscapes. Washington Department of Fish and Wildlife, Olympia.
- Aycrigg, J.L., A. Davidson, L.K. Svancara, K.J. Gergely, A. McKerrow, and M. Scott. 2013. Representation of Ecological Systems within the Protected Areas Network of the Continental United States. *PLoS ONE* 8(1): e54689. doi:10.1371/journal.pone.0054689
- BergerABAM. 2014a. Biological Evaluation Vancouver Energy Project. October 2014 Revised December 2014. A13.0267.00. Prepared for Vancouver Energy by BergerABAM.
- BergerABAM. 2014b. Tesoro Savage Vancouver Energy Distribution Facility Preliminary Draft EIS. July.
- BergerABAM. 2015. Vancouver Energy Construction Wildlife Monitoring Plan: EFSEC Application for Site Certification No. 2013-01, Docket No. EF131590. June 12, 2015. Prepared for Tesoro Savage Petroleum Terminal LLC by BergerABAM, Vancouver, WA.
- Bureau of Land Management (BLM). 2009. Instruction Memorandum No. MT-2009-039. 2009 Montana/Dakotas Special-Status Species List. Website (http://www.blm.gov/mt/st/en/res/public_room/efoia/2009/IMs/09mtm039.html) accessed May 8, 2015.

- Chappell, C.B. 2006. Plant Associations of Balds and Bluffs of Western Washington. Washington Natural Heritage Program. Washington State Department of Natural Resources. Natural Heritage Report 2006-02. Available online at http://wadnr.s3.amazonaws.com/publications/amp_nh_balds_bluffs.pdf.
- Chepesiuk, R. 2009. Missing the dark: health effects of light pollution. *Environmental Health Perspectives* 117(1):A20-A27.
- Cornell (Cornell Lab of Ornithology). 2015. Bird Guide. Website (http://www.allaboutbirds.org/guide) accessed May 5, 2015.
- Dorsey, B.P. 2011. Factors Affecting Bear and Ungulate Mortalities along the Canadian Pacific Railroad through Banff and Yoho National Parks. November. Thesis. Montana State University, Bozeman, MO.
- Federal Highway Administration (FHWA). 2004. Synthesis of noise effects on wildlife populations. Publication No. FHWA-HEP-06-016. September. Washington, DC.
- Francis, C.D., and J.F. Barber. 2013. A framework for understanding noise impacts on wildlife: an urgent conservation priority. *Front. Eco.l Environ*. 2013; doi:10.1890/120183, the Ecological Society of America. Website (www.frontiersinecology.org) accessed May 13, 2015.
- Idaho Department of Fish and Game (IDFG). 2005. Idaho comprehensive wildlife conservation strategy. Available at: https://fishandgame.idaho.gov/public/wildlife/cwcs/. Idaho Conservation Data Center, Idaho Department of Fish and Game, Boise, ID.
- Jackson, S.D. 2000. Overview of transportation impacts on wildlife movement and populationsIn *Wildlife and Highways: Seeking Solutions to an Ecological and Socio-economic Dilemma*, T.A. Messmer and B. West, eds., pp. 7-20. The Wildlife Society.
- Jalkotzy, M.G., P.I. Ross, and E.M.D. Nasserden. 1997. The effects of linear developments on wildlife: a review of selected scientific literature. Report prepared for Canadian Association of Petroleum Producers by ARC Wildlife Services Ltd., Calgary, Alberta, Canada.
- Johnson, D.H., and T.A. O'Neil, eds. 2001. Wildlife habitat relationships in Oregon and Washington. Oregon State University Press, Corvallis.
- Kight, C.R., and J.P. Swaddle. 2011. How and why environmental noise impacts animals: an integrative, mechanistic review. *Ecology Letters* (2011); doi: 10.1111/j.1461-0248.2011.01664.x. Blackwell Publishing Ltd.
- Larsen, E. M., and J. T. Morgan. 1998. Management recommendations for Washington's priority habitats: Oregon white oak woodlands. Washington Department of Fish and Wildlife. Olympia.
- Longcore, T., and C. Rich. 2004. Ecological light pollution. Frontiers in Ecology and Environment 2(4):191-198.
- Montana Natural Heritage Program (MNHP). 2013. Montana animal species of concern report. October 7. Website (http://mtnhp.org/SpeciesOfX/?AorP=a) accessed April 2, 2014.

- Myers, W.L., W.Y. Chang, S.S. Germaine, W.M. VanderHaegen, and T.E. Owens. 2008. An analysis of deer and elk-vehicle collision sites along state highways in Washington State. Completion Report, Washington Department of Fish and Wildlife Olympia
- Oregon Department of Fish and Wildlife (ODFW). 2008. Sensitive Species List. Website (http://www.dfw.state.or.us/wildlife/diversity/species/sensitive_species.asp) accessed April 15, 2015.
- Radle, A.L. 2007. The effect of noise on wildlife: a literature review. World Forum for Acoustic Ecology Online Reader. Website (http://interact.uoregon.edu/MediaLit/wfae/readings/radle.html) accessed May 13, 2015.
- Sheldon, D., T. Hruby, P. Johnson, K. Harper, A. McMillan, T. Granger, S. Stanley, and E. Stockdale. 2005. Wetlands in Washington State - Volume 1: A Synthesis of the Science, Publication #05-06-006. March. Washington State Department of Ecology, Olympia, WA.
- Tate, D.J. 2010. Bird Nesting and Droppings Control on Highway Structures. Report Number CDOT-2010-7. October 2010. Prepared by Enviro-Support, Inc., Arvada, CO for Colorado Department of Transportation, Denver, CO. Available online at https://www.codot.gov/programs/research/pdfs/2010/birdcontrol. Accessed June 30, 2015.
- US Fish and Wildlife Service (USFWS). 2010. Recovery Plan for the Prairie Species of Western Oregon and Southwestern Washington. Portland, OR.
- US Fish and Wildlife Service (USFWS). 2013. Biological Opinion and Letter of Concurrence for Effects to Bald Eagles, Marbled Murrelets, Northern Spotted Owls, Bull Trout, and Designated Critical Habitat for Marbled Murrelets and Northern Spotted Owls from Olympic National Forest Program of Activities for March 25, 2013, to December 31, 2023. Lacey, WA.
- US Fish and Wildlife Service (USFWS). 2015a. Listed species believed to or known to occur in Each State. Website (http://ecos.fws.gov/tess_public/reports/species-listed-by-state-totals-report) accessed February 3 and March 31, 2015.
- US Fish and Wildlife Service (USFWS). 2015b. Species profile for gray wolf (*Canis lupis*). Website (http://ecos.fws.gov/speciesProfile/profile/speciesProfile?spcode=A00D) accessed September 17.
- US Forest Service (USFS). 2011. U.S. Forest Service Region 1 wildlife sensitive species list. February.
- US Forest Service (USFS) and Bureau of Land Management (BLM). 2011. Interagency Special-Status/ Sensitive Species Program. Final Oregon/Washington State Director Special-Status Species List December 1, 2011. Website (http://www.fs.fed.us/r6/sfpnw/issssp/agency-policy/) accessed May 24, 2015.
- US Geological Survey (USGS). 2011. Gap Analysis Program (GAP) national land cover, Version 2. August 2011. Website (http://gapanalysis.usgs.gov/gaplandcover/data/) accessed 2014

- US Geological Survey (USGS). 2012. Gap Analysis Program (GAP). Protected Areas Database of the United States (PADUS), Version 1.3 Combined Feature Class and Landcover Data. November. Landcover website (http://gapanalysis.usgs.gov/gaplandcover/data/download/), metadata website (http://gapanalysis.usgs.gov/gaplandcover/data/land-cover-metadata/), and PADUS website (http://gapanalysis.usgs.gov/padus/data/download) accessed March 3, April 22 and 23, and May 12, 2015.
- Vigil Agrimis, Inc. and Herrera Environmental Consulting. 2004. Natural Resources Inventory Management Plan. Prepared for the Port of Vancouver, Vancouver, WA.
- Washington Department of Fish and Wildlife (WDFW). 2004. Living with Wildlife. Website (http://wdfw.wa.gov/living/nuisance/) accessed May 3, 2015.
- Washington Department of Fish and Wildlife (WDFW). 2005. Washington's comprehensive wildlife conservation strategy. Final draft. September 19. Olympia, WA.
- Washington Department of Fish and Wildlife (WDFW). 2006. Shillapoo Wildlife Area Management Plan. Wildlife Management Program, Olympia.
- Washington Department of Fish and Wildlife (WDFW). 2008. Priority habitat and species list. Olympia, WA.
- Washington Department of Fish and Wildlife (WDFW). 2014. Priority Habitats and Species web page: Species and habitat management recommendations. Website (http://wdfw.wa.gov/conservation/phs/mgmt_recommendations) accessed January 13, 2014.
- Washington Department of Fish and Wildlife (WDFW). 2015a. Species of Concern in Washington State. Available online at http://wdfw.wa.gov/conservation/endangered/All/.
- Washington Department of Fish and Wildlife (WDFW). 2015b. Priority Habitats and Species Digital Data. May 26, 2015. Prepared by WDFW for Cardno, Anchorage, AK.
- Washington State Department of Natural Resources (WDNR). 2006. Forest Practices Application Mapping Tool. Available online at https://fortress.wa.gov/dnr/protectiongis/fpamt/index.html.
- Washington State Department of Natural Resources (WDNR). 2011a. Ecological Integrity Assessment: North Pacific Montane Massive Bedrock, Cliff and Talus.
- Washington State Department of Natural Resources (WDNR). 2011b. Ecological Integrity Assessment: North Pacific Herbaceous Bald and Bluff.
- Washington State Department of Natural Resources (WDNR). 2011c. Ecological Integrity Assessment: Columbia Basin Steppe and Grassland.
- Washington State Department of Ecology (Ecology). 2005. Wetlands in Washington State Volume 1: A Synthesis of the Science. Publication #05-06-006. Olympia, WA.
- Washington State Department of Transportation (WSDOT). 2014. Washington State rail plan, integrated freight and passenger rail plan 2013-2035. Available online at http://www.wsdot.wa.gov/NR/rdonlyres/F67D73E5-2F2D-40F2-9795-736131D98106/0/StateRailPlanFinal201403.pdf. March 18.

- Washington Wildlife Habitat Connectivity Working Group. 2010. Washington Connected Landscapes Project: Statewide analysis. Washington Departments of Fish and Wildlife and Transportation, Olympia, WA. Website (http://www.waconnected.org) accessed May 14, 2015.
- Wells, P., L.G. Woods, G. Bridgewater, and H. Morrison. 1999. Wildlife mortalities on railways: monitoring methods and mitigation strategies. *Proceedings of the Third International Conference* on Wildlife Ecology and Transportation, September 13-16, 1999, Missoula, MO.

SECTION 3.6, AQUATIC SPECIES

- Ackerman, N.K. 2002. Effects of vessel wake stranding of juvenile salmonids in the lower Columbia River, 2002–A pilot study: Report by SP Cramer & Associates, Inc., Sandy, OR, for the US Army Corps of Engineers, Portland District, OR.
- Adams, P.B., C.B. Grimes, J.E. Hightower, S.T. Lindley, and M.L. Moser. 2002. Status Review for North American Green Sturgeon, *Acipenser medirostris*. National Marine Fisheries Service. Available online at http://www.nmfs.noaa.gov/pr/pdfs/statusreviews/greensturgeon.pdf.
- Alaska Department of Fish and Game. 2008. Harbor Porpoise. Website (http://www.adfg.alaska.gov/index.cfm?adfg=harborporpoise.main) accessed on May 13, 2014.
- Angliss, R.P., and R.B. Outlaw. 2008. Alaska Marine Mammal Stock Assessments, 2007. National Oceanic and Atmospheric Administration Technical Memorandum. National Marine Fisheries Service-AFSC-180. US Department of Commerce, National Oceanic and Atmospheric Administration, National Marine Fisheries Service, Alaska Fisheries Science Center, National Marine Mammal Laboratory, Seattle, WA.
- Au, W.W.L., J.K.B. Ford, J.K. Horne, and K.A. Newman Allman. 2004. Echolocation signals of freeranging killer whales (*Orcinus orca*) and modeling of foraging for Chinook salmon (*Oncorhynchus tshawytscha*). Journal of the Acoustical Society of America 115:901–909.
- Bargman, G. 1998. Forage fish management plan. A plan for managing the forage fish resources and fisheries of Washington. Washington Department of Fish and Wildlife. Olympia, WA. September 1998.
- Barraclough W.E. 1964. Contribution to the marine life history of the eulachon Thaleichthys pacificus. *Journal of the Fisheries Research Board of Canada* 21:1333–1337.
- Bauersfeld, K. 1977. Effects of peaking (stranding) of Columbia River dams on juvenile anadromous fishes below The Dalles Dam, 1974 and 1975. Report by the State of Washington Department of Fisheries, Olympia, WA, for the US Army Corps of Engineers, Portland District, OR.
- Berger ABAM. 2014a. Tesoro Savage Vancouver Energy Distribution Facility Preliminary Draft EIS. July.
- Berger ABAM. 2014b. Biological Evaluation Vancouver Energy Project. October 2014 Revised December 2014. A13.0267.00. Prepared for Vancouver Energy.
- Bottom, D.L., and K.K. Jones. 1990. Species composition, distribution, and invertebrate prey of fish assemblages in the Columbia River Estuary. *Prog. Oceanog.* 25:243-270.

- Bottom D.L., C.A. Simenstad, J. Burke, A.M. Baptista, D.M. Jay, K.K. Jones, E. Casillas, and M.H. Schiewe. 2005. Salmon at river's end: the role of the estuary in the decline and recovery of Columbia River salmon. US Department of Commerce.
- Braham, H.W. 1984. Migration and feeding of gray whales (*Eschrichlius robuslus*) in Alaska. In *The Gray Whale: Eschrichtius robustus*, M.L. Jones, S.L. Swartz, and S. Leatherwood eds., pp. 249-266. Academic Press, Inc., Orlando, FL.
- Brueggeman, J.J., R.A. Grotefendt, M.A. Smultea, G.A. Green, R.A. Rowlett, C.C. Swanson, D.P.
 Volsen, C.E. Bowlby, C.I. Malme, R. Mlawski, and J.J. Burns. 1992. 1991 Marine Mammal
 Monitoring Program, Whales and Seals, Crackerjack and Diamond Prospects, Chukchi Sea. Shell
 Western E&P Inc and Chevron USA, Inc.
- Buckland, S.T., K.L. Cattanach, and R.C. Hobbs. 1993. Abundance estimates of Pacific white-sided dolphin, northern right whale dolphin, Dall's porpoise and northern fur seal in the North Pacific, 1987–1990. International North Pacific Fisheries Commission Bulletin 53 (3):387–407.
- Calambokidis, J., T. Chandler, L. Schlender, K. Rasmussen, and G. Steiger. 2002. Final Report, Research on humpback and blue whales off California, Oregon and Washington 2001.
- Calambokidis, J., T. Chandler, E. Falcone, and A. Douglas. 2004. Research on large whales off California, Oregon and Washington in 2003. Contract Report to Southwest Fisheries Science CenterLa Jolla, CA.
- Calambokidis, J., J. Barlow, J.K. Ford, T.E. Chandler, and A.B. Douglas. 2009. Insights into the population structure of blue whales in the Eastern North Pacific from recent sightings and photographic identification. *Marine Mammal Science* 25 (4): 816–832.
- California Department of Transportation. 2012. Compendium of Pile Driving Sound Data. Sacramento, CA.
- Calkins, D.G., and K.W. Pitcher. 1982. Population assessment, ecology, and trophic relationships of Steller sea lions in the Gulf of Alaska. *NOAA, OCSEAP Final Report* 19 (1983).
- Carretta, J.V., K. Forney, M.M. Muto, J. Barlow, J. Baker, and M. Lowery. 2004. US Pacific Marine Mammal Stock Assessment: 2003. National Oceanic and Atmospheric Administration Technical Memorandum. (National Marine Fisheries Service-SWFSC-358.)
- Carretta, J.V., K. Forney, M.M. Muto, J. Barlow, J. Baker, B. Hanson, and M. Lowry. 2007. US Pacific Marine Mammal Stock Assessment: 2006. *NOAA Technical Memorandum* NMFS-SWFSC-398.
- Carretta, J.V., E. Oleson, D.W. Weller, A.R. Lang, K.A. Forney, J. Baker, B. Hanson, K. Martien, M.M. Muto, M.S. Lowry, J. Barlow, D. Lynch, L. Carswell, R.L. Brownell Jr., D.K. Mattila, and M.C. Hill. 2013. US Pacific Marine Mammal Stock Assessments: 2012. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, Southwest Fisheries Science Center.
- Carretta, J.V., E. Oleson, D.W. Weller, A.R. Lang, K.A. Forney, J. Baker, B. Hanson, K. Martien, M.M. Muto, A.J. Orr, H. Huber, M.S. Lowry, J. Barlow, D. Lynch, L. Carswell, R.L. Brownell Jr., and D.K. Mattila. 2014. US Pacific Marine Mammal Stock Assessments, 2013. August.

- Carter, J.A., G.A. McMichael, I.D. Welch, R.A. Harnish, and B.J. Bellgraph. 2009. Seasonal juvenile salmonid presence and migratory behavior in the Lower Columbia River. PNNL- 18246. Pacific Northwest National Laboratory, Richland, WA.
- City of Portland. 2005. Columbia Slough Watershed Characterization. Chapter 7, Physical Habitat and Biological Communities Characterization. Available online at https://www.portlandoregon.gov/bes/36081.
- Darling, J.D. 1984. Gray whales off Vancouver Island, British Columbia. In *The Gray Whale: Eschrichtius robustus*, M L. Jones, S.L. Swartz, and S. Leatherwood, eds., pp. 267-287. Academic Press, Inc., Orlando, FL.
- David, M. 2015. Vessels and ballast water. In *Global Maritime Transport and Ballast Water Management*, pp. 13-34. Springer Netherlands.
- David Evans and Associates, Inc (DEA). 2011. Columbia River Crossing Test Pile Project Hydroacoustic Monitoring Final Report. July.
- Dettmers, J.M., R.M. Gutreuter, R.M. Claramunt, D.A. Soluk, and D.H. Wells. 1998. Abundance of fishes in the navigation channels of the Mississippi and Illinois Rivers with implications for estimation of entrainment mortality caused by towboats, July 1, 1995 through December 31, 1998. Final Report. December.
- Doroff, A., and A. Burdin. 2015. *Enhydra lutris*. The IUCN Red List of Threatened Species. Version 2015.2. Website (www.iucnredlist.org) downloaded July 20, 2015.
- ENTRIX Inc. 2008. Spatial analysis of beach susceptibility for stranding of juvenile salmonids by ship wakes. Final Report. Prepared for the Port of Vancouver.
- Forney, K.A., and J. Barlow. 1998. Seasonal patterns in the abundance and distribution of California cetaceans, 1991-92. *Mar. Mamm. Sci.* 14:460–489.
- Fresh, K.L., E. Casillas, L.L. Johnson, and D.L. Bottom. 2005. Role of the estuary in the recovery of Columbia River basin salmon and steelhead: an evaluation of the effects of selected factors on salmonid population viability. *NOAA Technical Memorandum* NMFS-NWFSC-69.
- Good, T.P. and R.S. Waples. ND. Steelhead. Northwest Fisheries Science Center.
- Green, G.A., J.J. Brueggeman, R.A. Grotefendt, C.E. Bowlby, M.L. Bonnel, and K.C. Balcomb. 1992. Cetacean distribution and abundance off Oregon and Washington, 1989–1990. Oregon and Washington Marine Mammal and Seabird Surveys, J.J. Brueggeman, ed. Final Report. (OCS Study MMS 91-0093.)
- Green, G.A., R.A. Grotefendt, M.A. Smultea, C.E. Bowlby, and R.A. Rowlett. 1993. Delphinid aerial surveys in Oregon and Washington offshore waters. Final Report. National Marine Fisheries Service, National Marine Mammal Laboratory, Seattle, WA.
- Green, G., J. Brueggeman, R. Grotefendt, and C. Bowlby. 1995. Offshore distances of gray whales migrating along the Oregon and Washington coasts, 1990. *Northwest Science* 69:223–227.

- Groot and Margolis. 1991. *Pacific Salmon Life Histories*. University of British Columbia Press. Vancouver, BC.
- Gustafson, R.G., M.J. Ford, D. Teel, and J.S. Drake. 2010. Status review of eulachon (Thaleichthys pacificus) in Washington, Oregon, and California. NOAA Technical Memorandum NMFS-NWFSC-105.
- Haas, M.E., C.A. Simenstad, J.R. Cordell, D.A. Beauchamp, and B.S. Miller. 2002. Effects of Large Overwater Structures on Epibenthic Juvenile Salmon Prey Assemblages in Puget Sound, Washington. Final Research Report. Prepared for Washington State Transportation Commission, Department of Transportation and in cooperation with US Department of Transportation, Federal Highway Administration.
- Haley, D., ed. 1978. Marine Mammals. Pacific Search Press. Seattle, WA.
- Hart, J. L., and J. L. McHugh. 1944. The smelts of British Columbia. *Fisheries Research Board of Canada* 64:10-14.
- Hay, D. E., and McCarter, P. B. 2000. Status of the eulachon *Thaleichthys pacificus* in Canada. Department of Fisheries and Oceans Canada, Canadian Stock Assessment Secretariat, Research Document 2000-145. Ottawa, Ontario.
- Hatzel, J., I.R. Lawler, H. Marsh, S. Robson. 2007. Vessel speed increases collision risk for the green turtle *Chelonia mydas. Endang. Species Res.* 3:105-113.
- Hickey B.M., and N.S. Banas. 2003. Oceanography of the US Pacific Northwest coastal ocean and estuaries with application to coastal ecology. *Estuaries* 26:1010–1031.
- Heise, K. 1997. Diet and feeding behaviour of Pacific white-sided dolphins (*Lagenorhynchus obliquidens*) as revealed through the collection of prey fragments and stomach content analyses. *International Whaling Comm* 47:807–815.
- Hinton, S.A., and R.L. Emmett. 1994. Juvenile salmonid stranding in the lower Columbia River, 1992 and 1993. *NOAA Technical Memorandum* NMFSNWFSC-20.
- Howe, Dave. Regional Habitat Program Manager, Washington Department of Fish and Wildlife. 2015. Letter to Justin Allegro, Renewable Energy Section Manager, WDFW, Subject: Advisory Provisions for the Tesoro-Savage Oil Terminal, April 16.
- Illingworth and Rodkin. 2007. Compendium of Pile Driving Sound Data. Prepared for the California Department of Transportation. September 27.
- Jeffries, S.J., P.J. Gearin, H.R. Huber, D.L. Saul1, 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. pp. 150.

Jensen, A.S., and G.K. Silber. 2004. Large Whale Ship Strike Database. NOAA Technical Memorandum.

Johnson, L.K. 2010. Ecology and natural history of the freshwater tidal forested wetlands of the Columbia River estuary. Thesis in partial fulfillment of the requirements for the degree of Master of Science, University of Washington, School of Aquatic and Fishery Science.

- Jones, K. K., Simenstad, C. A., Higley, D. L., & Bottom, D. L. 1990. Community structure, distribution, and standing stock of benthos, epibenthos, and plankton in the Columbia River estuary. *Progress in Oceanography*, 25(1), 211-241.
- Kagley, A.N., K.L. Fresh, S.A. Hinton, G.C. Roegner, D.L. Bottom, and E. Casillas. 2005. Habitat use by juvenile salmon in the Columbia River estuary: Columbia River channel improvement project research. Report of the National Marine Fisheries Service to the US Army Corps of Engineers. Portland, OR.
- Kastelin, R.A., R. van Schie, W.C. Verboom, and D. de Haan. 2005. Underwater hearing sensitivity of a male and female Steller sea lion (*Eumetopias jubatus*). J Acoust Soc Am. 118:1820-1829.
- Kennish, M.J., ed. 1997. Practical Handbook of Estuarine and Marine Pollution. Boca Raton, LA: CRC Press.
- Korth, C.D.J. 2007. Lake Management Plan for Sprague Lake and Adjacent Waters (Including Cow, Hallin, and Finnell Lakes, Including Sheep Springs; Negro, Damage and Cow Creeks, Dixon's Pond, Lugenbeal Creek). Washington Department of Fish and Wildlife.
- Lamb, A., and P. Edgell. 1986. Coastal Fishes of the Pacific Northwest. Harbour Publishing Co. Ltd., Madiera Park, Brotosh Columbia, Canada.
- Langer, O. E., B. G. Shepherd, and P. R. Vroom. 1977. Biology of the Nass River eulachon (*Thaleichthys pacificus*). Canadian Fisheries and Marine Service Technical Report 77-10.
- Leatherwood, S., and W.A. Walker. 1979. The northern right whale dolphin in the eastern North Pacific. In *Behavior of Marine Animals*, H.W. Winn and B.L. Olla, eds., pp. 85–141. Plenum Publishing Company, NY.
- Lenhardt, M.L. 1994. Seismic and very low frequency sound induced behaviors in captive loggerhead marine turtles (*Caretta caretta*). Presented at the Fourteenth Annual Symposium on Sea Turtle Biology and Conservation, Hilton Head, SC.
- Lower Columbia Fish Recovery Board (LCFRB). 2010. Washington Lower Columbia Salmon Recovery and Fish & Wildlife Subbasin Plan. Volume II, Chapter A: Lower Columbia Mainstem and Estuary. Available online at http://www.lcfrb.gen.wa.us/#!library/c1tqm.
- Lower Columbia River Estuary Partnership. 2010. River Species. Website (http://www.estuarypartnership.org/learn/river-species) accessed May 6, 2015.
- Love, M. S., M. Yoklavich, and L. Thorsteinson. 2002. *The Rockfishes of the Northeast Pacific*. Univ. California Press, Berkeley, CA
- Marchesan, M., M. Spoto, L. Verginella, and E.A. Ferrero. 2004. Behavioural effects of artificial light on fish species of commercial interest. *Fisheries Research* 73: 171–185.
- Martin, A.D., J.H. Mundie, C.P. Newcombe, L.L. Bahls, J.J. Fraley, C.J. Martinka, and J.E. Vashro. 1987. Flathead River International Study. Biological Resources Committee Technical Report Summary. October.

- McCain, B.B., S.D. Miller, and W.W. Wakefield, II. 2005. Life History, Geographical Distribution, and Habitat Associations of 82 West Coast Groundfish Species: a Literature Review. Northwest Fisheries Science Center, Seattle, WA.
- McCauley, R. D., J. Fewtrell, A.J. Duncan, C. Jenner, M-N Jenner, and J.D. Penrose. 2000. Marine Seismic Surveys: Analysis and Propagation of Air-Gun Signals; and Effects of Air-Gun Exposure on Humpback Whales, Sea Turtles, Fishes and Squid. (R99-15, pp. 198). Centre for Marine Science and Technology, Western Australia.
- McClatchie, S., R.D. Brodeur, J.C. Field, E. Weber, A.R. Thompson, R.L. Emmett, P.R. Crone, K.T. Hill, C. Barcelo, and B.K. Wells. CCIEA Phase II Report 2012: Ecosystem Components, Fisheries Coastal Pelagics and Forage Fishes.
- Merchant N.D., M.J. Witt, P. Blondel, B.J. Godley, and G.H. Smith. 2012. Assessing sound exposure from shipping in coastal waters using a single hydrophone and Automatic Identification System (AIS) data. *Marine Pollution Bulletin* 60:1320-1329.
- Miller and Payne. 1996. Effects of Increased Commercial Navigation Traffic on Freshwater Mussels in the Upper Mississippi River: Final Synthesis Report.
- Mitson, R.B., ed. 1995. Underwater Noise of Research Vessels: Review and Recommendations. Cooperative Research Report, No. 209, International Council for the Exploration of the Sea, Copenhagen, Denmark.
- Moein, S. E., Musick, J. A., Keinath, J. A., Barnard, D. E., Lenhardt, M. & George, R. 1994. Evaluation of seismic sources for repelling sea turtles from hopper dredges Final Report submitted to the US Army Corps of Engineers Waterways Experiment Station, pp. 33. Virginia Institute of Marine Science, Gloucester Point, VA.
- Moyle PB. 2002. *Inland Fishes of California*, revised and expanded. Berkeley: University of California Press.
- Murison, L.D., D.J. Murie, K.R Morin, and J. da Silva Curiel. 1984. Foraging of the gray whale along the west coast of Vancouver Island, British Columbia. In *The Gray Whale: Eschrichtius robustus*.
 M.L. Jones, S.L. Swartz, and S Leatherwood, eds., pp. 451-64. Academic Press, Orlando, FL.
- Nair, S.K., S.M. Bartell, and J. B. Stokke. 2012. Final Report Adaptive Environmental Management for the Columbia River Channel Improvement Project: Annual Report for 2011.
- National Marine Fisheries Service (NMFS). 1992. Report to Congress on Washington State marine mammals. (DOC/NOAA/NMFS report.) (Available from NMFS Northwest Regional Office, 7600 Sand Point Way NE, Seattle, WA 98115.)
- National Marine Fisheries Service (NMFS). 2003. Depleted Designation for Southern Residents. Federal Register 68(103):31980-31983.
- National Marine Fisheries Service (NMFS). 2006. Final Draft Columbia River Estuary Recovery Plan Module. Prepared by the Lower Columbia River Estuary Partnership under contract to NOAA Fisheries.

- National Marine Fisheries Service (NMFS). 2008a. Recovery Plan for the Steller Sea Lion. Eastern and Western Distinct Population Segments. Revision.
- National Marine Fisheries Service (NMFS). 2008b. Recovery Plan for Southern Resident Killer Whales (*Orcinus orca*). National Marine Fisheries Service, Northwest Region, Seattle, WA.
- National Marine Fisheries Service (NMFS). 2008c. Proposed Rulemaking to Designate Critical Habitat for the Threatened Southern Distinct Population Segment of Northern Green Sturgeon. *Federal Register* 73(174):52084-52110.
- National Marine Fisheries Service (NMFS). 2010. Final Recovery Plan for the Fin Whale. National Marine Fisheries Service. Silver Springs, MD.
- National Marine Fisheries Service (NMFS). 2012a. Minke Whale (Balaenoptera acutorostrata). NOAA Fisheries Office of Protected Resources. Website (http://www.nmfs.noaa.gov/pr/species/mammals/cetaceans/minkewhale.htm) accessed in November 2013.
- National Marine Fisheries Service (NMFS) 2012b. Risso's Dolphin (*Grampus griseus*). NOAA Fisheries Office of Protected Resources. Website (http://www.nmfs.noaa.gov/pr/species/mammals/cetaceans/rissosdolphin.htm) accessed November 2013.
- National Marine Fisheries Service (NMFS). 2015. Essential Fish Habitat Maps & Data. Available online at http://www.westcoast.fisheries.noaa.gov/maps_data/essential_fish_habitat.html.
- National Marine Fisheries Service (NMFS) and National Oceanic and Atmospheric Administration (NOAA). 2011. Endangered and Threatened Species; Designation of Critical Habitat for the Southern Distinct Population Segment of Eulachon Federal Register, Vol. 76, No. 203. October 20.
- National Marine Fisheries Service (NMFS) and National Oceanic and Atmospheric Administration (NOAA). 2012. Endangered and Threatened Species; Final Rule to Revise the Critical Habitat Designation for the Endangered Leatherback Sea Turtle. Federal Register, Vol. 77, No. 17, January 26.
- National Marine Mammal Laboratory. 2013a. Marine Mammal Species: California Sea Lion. Website (http://www.afsc.noaa.gov/nmml/species/species_cal.php) accessed in 2013.
- National Marine Mammal Laboratory. 2013b. Marine Mammal Education Web: Northern Elephant Seals. Website (http://www.afsc.noaa.gov/nmml/education/pinnipeds/nelephant.php) accessed in 2013.
- National Oceanic and Atmospheric Administration (NOAA). 1998. Appendix D Description and Identification of Essential Fish Habitat for the Coast Pelagic Species Fishery Management Plan. Available online at http://www.westcoast.fisheries.noaa.gov/publications/habitat/essential_fish_habitat/coastal_pelag ic_appendix_d.pdf.
- National Oceanic and Atmospheric Administration (NOAA). 2008. Supplemental Comprehensive Analysis of the Federal Columbia River Power System and Mainstem Effects of the Upper Snake and other Tributary Actions. May 5.

- National Oceanic and Atmospheric Administration (NOAA). 2009. Endangered and Threatened Wildlife and Plants: Final Rulemaking to Designate Critical Habitat for the Threatened Southern Distinct Population Segment of North American Green Sturgeon. 74 FR 52300.
- National Oceanic and Atmospheric Administration (NOAA). 2011. Critical Habitat for the Southern Distinct Population Segment of Eulachon Final Biological Report. September. Available online at http://www.westcoast.fisheries.noaa.gov/publications/protected_species/other/eulachon/eulachonch-bio-rpt.pdf.
- National Oceanic and Atmospheric Administration (NOAA). 2013. Federal Recovery Outline, Eulachon Southern DPS. June 21. Available online at http://www.westcoast.fisheries.noaa.gov/publications/protected_species/other/eulachon/eulachon _recovery_outline_070113.pdf.
- National Oceanic and Atmospheric Administration (NOAA). 2014a. Sockeye salmon (*Oncorhynchus nerka*). Available online at http://www.nmfs.noaa.gov/pr/species/fish/sockeyesalmon.htm.
- National Oceanic and Atmospheric Administration (NOAA). 2014b. Green Sturgeon (*Acipenser medirostris*). Website (http://www.nmfs.noaa.gov/pr/species/fish/greensturgeon.htm.) accessed May 13, 2015.
- National Oceanic and Atmospheric Administration (NOAA). 2014c. Southern Resident Killer Whales: 10 Years of Research and Conservation. Available online at http://www.nwfsc.noaa.gov/news/features/killer_whale_report/.
- National Oceanic and Atmospheric Administration (NOAA). 2015a. Chinook salmon (*Oncorhynchus tshawytscha*). Available online at http://www.nmfs.noaa.gov/pr/species/fish/chinook-salmon.html.
- National Oceanic and Atmospheric Administration (NOAA). 2015b. Killer whale (*Orcinus orca*). Available online at http://www.nmfs.noaa.gov/pr/species/mammals/whales/killer-whale.html.
- National Wildlife Federation. 2007. Sea-level rise and coastal habitats in the Pacific Northwest: An analysis for Puget Sound, Southwestern Washington, and Northwestern Oregon. July.
- Nerini, M. 1984. A review of gray whale feeding ecology. In *The Gray Whale: Eschrichtius robustus,* M.L. Jones, S.L. Swartz, and S. Leatherwood, eds. Academic Press, Inc. Orlando, FL.
- Nightingale, B., and C.A. Simenstad. 2001. Overwater Structures: Marine Issues. Research Project T1803, Task 35 Overwater Whitepaper. Prepared for Washington State Transportation Commission, Department of Transportation, and in cooperation with US Department of Transportation, Federal Highway Administration.
- Okeanos. 2008. Shipping Noise and Marine Mammals. A Background Paper Produced by Participants of the International Workshop on Shipping Noise and Marine Mammals. Hamburg, Germany, April 21-24, 2008.
- Oregon Department of Fish and Wildlife (ODFW). 2006. Oregon Nearshore Strategy. Available online at http://www.dfw.state.or.us/mrp/nearshore/.

- Oregon Department of Fish and Wildlife (ODFW). 2014. Threatened, endangered, and Candidate Fish and Wildlife Species.
- Oregon Department of Fish and Wildlife (ODFW). 2015. Surfperch Fishing. Available online at http://www.dfw.state.or.us/resources/fishing/docs/ODFWOutdoorsSurfPerchFlyerFinal.pdf.
- Oregon Explorer. 2015. Marine and Estuarine Habitats. Available online at http://oregonexplorer.info/northcoast/MarineandEstuarineHabitats.
- Pacific Fishery Management Council (PFMC). 1999. Amendment 14 to the Pacific Coast Salmon Plan. January. Available online at http://www.psmfc.org/efh/salmon_efh.html.
- Pacific Fishery Management Council (PFMC). 2005a. Pacific Coast Groundfish Fishery Management Plan, for the California, Oregon, and Washington Groundfish Fishery. Appendix B, Part 4 Habitat Suitability Probability Maps for Individual Groundfish Species and Life History Stages.
- Pacific Fishery Management Council (PFMC). 2005b. Pacific Coast Groundfish Fishery Management Plan, for the California, Oregon, and Washington Groundfish Fishery. Appendix B, Part 2 Groundfish Life History Descriptions.
- Pacific Fishery Management Council (PFMC). 2011a. The Coastal Pelagic Species Fishery Management Plan; As Amended Through Amendment 13.
- Pacific Fishery Management Council (PFMC). 2011b. Fishery Management Plan for the US West Coast Fisheries For Highly Migratory Species as Amended through Amendment 2.
- Pacific Fishery Management Council (PFMC). 2014. Pacific Coast Groundfish Fishery Management Plan for the California, Oregon, and Washington Fishery. May.
- Palsson W. A., T. Tsou, G. G. Bargmann, R.M. Buckley, J. E. West, M. L. Mills, Y. Wing Cheng, and R. E. Pacunski. 2009. The Biology and Assessment of Rockfishes in Puget Sound. Washington Department of Fish and Wildlife, Olympia.
- Pearcy, W.G. 2005. Final White Paper. Distribution and Abundance of Marine Fishes. Prepared for the Institute for Natural Resources, Oregon State University.
- Pearson, S.F., M.G. Raphael, M.M. Lance, and T. D. Bloxton, Jr. 2011. Washington 2010 at-sea marbled murrelet population monitoring: Research Progress Report. Washington Department of Fish and Wildlife, Wildlife Science Division and USDA Forest Service Pacific Northwest Research Station, Olympia, WA.
- Pearson, W., and J. Skalski. 2011. Factors affecting stranding of juvenile salmonids by wakes from ship passage in the lower Columbia River. *River Res. and App.* 27: 926-936.
- Pearson, W.H., J.R. Skalski, K.I. Sobocinski, M.C. Miller, G.E. Johnson, G.D. Williams, J.A. Southard, and R.A. and Buchanan. 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. Report by the Pacific Northwest National Laboratory for the US Army Corps of Engineers, Portland District, OR.

- Poole, M.M. 1984. Migration corridors of gray whales along the central California coast, 1980-1982. In *The Gray Whale: Eschrichtius robustus.*, M.L. Jones, S.L. Swartz, and S. Leatherwood, eds., pp. 389-407. Academic Press, Inc., Orlando, FL.
- Popper, A.N., and M.C. Hastings. 2009. The effects of human-generated sound on fish. *Integrative Zoology* 4: 43-52.
- Reeves, G.H. 1984. Interaction and behavior of the redside shiner (*Richardsonius balteatus*) and the steelhead trout (*Salmo gairdneri*) in Western Oregon: the influence of water temperature. A Thesis submitted to Oregon State University in partial fulfillment of the requirements for the degree of Doctor of Philosophy in Fisheries. Corvallis, OR.
- Rice, D.W., and A.A. Wolman. 1971. Life history and ecology of the gray whale, *Eschrichtius robustus*. *Mar. Fish. Rev.* 46(4):7-14.
- Richardson, W.J., C.R. Greene, C.I. Malme, and D.H. Thomson. 1995. *Marine Mammals and Noise*. Academic Press, San Diego, CA.
- Rugh, D.J., M.M Muto, S.E. Moore and D.P. DeMaster. 1999. Status review of the Eastern North Pacific stock of gray whales. *NOAA Technical Memorandum* NMFS-AFSC-103.
- Rugh, D.J., K.E.W. Shelden, and A. Schulman-Jainger. 2001. Timing of the southbound migration of gray whales. *J. Cetacean Res. and Manage*. 3(1):31-39.
- Salo, E.O. 1991. Life History of Chum Salmon. In *Pacific Salmon Life Histories*, C. Groot and L. Margolis, eds. UBC Press, Vancouver, British Columbia, Canada.
- Sandegren, F.E., E.W. Chu and J.E. Vandevere. 1973. Maternal behavior in the California sea otter. J. *Mammal.* 54(3):668-679.
- Scheffer, V.B., and J.W. Slipp. 1948. The whales and dolphins of Washington State with a key to the cetaceans of the west coast of North America. *Am. Midl. Nat.* 39:257-337.
- Schusterman, R.J., 1981. Behavioral capabilities of seal and sea lions: a review of their hearing, visual, learning and diving skills. *Psychol. Rec.* 31(2):125-143.
- Schusterman, R.J., R.F. Ballilet, and J. Nixon. 1972. Underwater audiogram of the California sea lion by the conditioned vocalization technique. *J. Exp. Anal. Behav.* 17(3):339-350.
- Scordino, Joe. 2010. West Coast Pinniped Program Investigations on California Sea Lion and Pacific Harbor Seal Impacts on Salmonids and Other Fishery Resources.
- Scott, W. B., and E. J. Crossman. 1973. Freshwater Fishes of Canada. *Fisheries Research Board of Canada Bulletin*184.
- Shelden, K.E.W., D.J. Rugh, J.L. Laake, J.M. Waite, P.J. Gearin, and T.R. Wahl. 2000. Winter observations of cetaceans off the northern Washington coast. *Northwestern Naturalist* 81:54-59.

- Simenstad, C.A., B. J. Nightengale, R. M. Thom, and D. K. Shreffler, eds. 1999. Impacts of ferry terminals on juvenile salmon migrating along Puget Sound shorelines. Phase I: Synthesis of State of Knowledge. Washington State Transportation Center, University of Washington WA-RD 472.1.
- Simenstad, C.A., J.L. Burke, J.E. O'Connor, C. Cannon, D.W. Heatwole, M.F. Ramirez, I.R. Waite, T.D. Counihan, and K.L. Jones. 2011. Columbia River Estuary Ecosystem Classification—Concept and Application: US Geological Survey Open-File Report 2011-1228.
- Smith, W.E., and Saalfeld, R.W. 1955. Studies on Columbia River smelt *Thaleichthys pacificus* (Richardson). Washington Department of Fisheries, *Fisheries Research Paper* 1(3): 3–26.
- Spokane County Conservation District. 2000. Hangman (Latah) Creek Comprehensive Flood Hazard Management Plan. Public Data File WR-00-02.
- Stash, W. 2001. Distribution, relative abundance, and habitat associations of Milk River fishes related to irrigation diversion dams. Thesis in partial fulfillment of Master of Science in Fish and Wildlife Management. Montana State University. Bozeman, MO. April.
- Swartz, S.L. 1986. Gray whale migratory, social and breeding behavior. *Rep. Int. Whaling Comm.* (Special Issue 8): 207-229.
- Systma, M.D., J.R. Cordell, J.W. Chapman, and R.C. Draheim. 2004. Lower Columbia River aquatic nonindigenous species survey, 2001-2004. Final Technical Report.
- Szymanski, M.D., D.E. Bain, K. Kiel, S. Pennington, S. Wong, and K.R. Henery. 1999. Killer whale (Orcinus orca) hearing: Auditory brainstem response and behavioral audiograms. J. Acoust. Soc. Am 106(2) 1134-1141.
- US Army Corps of Engineers (USACE). 1976. Inventory of riparian habitats and associated wildlife along the Columbia and Snake Rivers: Volume IIB: summary. North Pacific Division.
- US Army Corps of Engineers (USACE). 2012. US Port and Inland Waterways Modernization Preparing for Post-Panamax Vessels. Institute for Water Resources.
- US Environmental Protection Agency (EPA). 2015. About the Columbia River: Bonneville Dam to the Pacific Ocean. Available online at http://www2.epa.gov/columbiariver/about-columbia-river-bonneville-dam-pacific-ocean.
- US Army Corps of Engineers (USACE). 2015. Memorandum for Record. Subject: Revised Permit Application Evaluation Procedure. Reference: NWS-2013-962; Tesoro Savage Vancouver Energy Distribution Terminal. May 28.
- US Fish and Wildlife Service (USFWS). 2014. Revised draft recovery plan for the coterminous United States population of bull trout (*Salvelinus confluentus*). Portland, OR.
- US Fish and Wildlife Service (USFWS). 2015a. National Wetlands Inventory Wetlands Mapper. Website (http://www.fws.gov/wetlands/data/mapper.HTML) accessed May 7, 2015.

- US Fish and Wildlife Service (USFWS). 2015b. Listed species believed to or known to occur in Washington. Website (http://ecos.fws.gov/tess_public/reports/species-listed-by-state-report?state=WA&status=listed) accessed February 3 and March 31, 2015.
- University of Rhode Island (URI). 2013. Discovery of Sound in the Sea. How to sea turtles hear. Website (http://www.dosits.org/animals/soundreception/howtoseaturtleshearsound/) accessed April 18, 2014.
- Van Waerebeek K. 2002. Pacific White-Sided Dolphin and Dusky Dolphin Lagenorhynchus obliquidens and L. obscurus. In Encyclopedia of Marine Mammals, W.F. Perrin, B. Würsig, and J.G.M. Thewissen, eds., pp. 859-861. Academic Press, San Diego.

Vancouver Energy. 2015. Vancouver Energy Marine Mammal Monitoring Plan, Plan No. C.04.

- Wade, P.R., and W. Perryman. 2002. An assessment of the eastern gray whale population in 2002. Unpublished document submitted to International Whaling Commission (SC/54/BRG7).
- Washington Department of Fish and Wildlife (WDFW). 2012. 2012 Endangered Species Annual Report. Olympia, WA.
- Washington Department of Fish and Wildlife (WDFW). 2015a. Columbia River Chum Salmon. Available online at http://wdfw.wa.gov/fishing/salmon/chum/columbia_river/index.html.
- Washington Department of Fish and Wildlife (WDFW). 2015b. Recreational salmon fishing. Salmon/steelhead species information. Coho (Silver) Salmon. Available online at http://wdfw.wa.gov/fishing/salmon/coho.html.
- Washington Department of Fish and Wildlife (WDFW) 2015c. Sockeye (Red) Salmon. Available online at http://wdfw.wa.gov/fishing/salmon/sockeye/columbia_river.html.
- Washington Department of Fish and Wildlife (WDFW). 2015d. State Wildlife Action Plan Revision. Species of Greatest Conservation Need. Draft Fact Sheets. Fish. Website (http://wdfw.wa.gov/conservation/cwcs/2015/draft_sgcn_fish_03-2015.pdf) accessed September 15.
- Washington Department of Fish and Wildlife (WDFW) and Oregon Department of Fish and Wildlife (ODFW). 2001. Washington and Oregon Eulachon Management Plan.
- Washington State Department of Ecology (Ecology). 2011. Spokane River Geographic Response Plan. Chapter 6 – Resources at Risk. Available online at http://www.ecy.wa.gov/programs/spills/preparedness/GRP/SpokaneGRP/SPR-Chapter6.pdf.
- Washington State Department of Ecology (Ecology). 2014. Vessel Entries and Transits for Washington Waters, VEAT 2013. Ecology Publication 14-08-004. March.
- Washington State Department of Natural Resources (WDNR). 2006. Forest Practices Application Mapping Tool. Available online at https://fortress.wa.gov/dnr/protectiongis/fpamt/index.html.

- Washington State Department of Natural Resources (WDNR). 2015. Forest Practices Water Typing. Available online at http://www.dnr.wa.gov/BusinessPermits/Topics/ForestPracticesApplications/Pages/fp_watertypin g.aspx.
- Washington State Department of Transportation (WSDOT). 2014. Noise Impact Assessment and Noise Reduction Strategies. Biological assessment preparation for transportation projects advanced training manual, Version 04-02-2014. Olympia, WA.
- Watkins, W.A. 1986. Whale reactions to human activities in Cape Cod waters. *Marine Mammal Science* 2:251-262.
- Weitkamp, L.A., R.C. Wissman, C.A. Simenstad, K.I. Fresh, and J.G. Odell. 1992. Gray whale foraging on ghost shrimp in littoral sand flats of Puget Sound, USA. *Can. J. Zoo.* 70:2275-2280.
- Weitkamp, L.A., T.C. Wainwright, G.J. Bryant, G.B. Milner, D.J. Teel, R.G. Kope, and R.S. Waples. 1995. Status Review of Coho Salmon from Washington, Oregon, and California. NOAA Technical Memorandum NMFS-NWFSC-24.
- WorleyParsons 2014. Vessel Traffic Risk Assessment Traffic Impact Analysis. September.
- Wiles, G. J. 2015. Washington state periodic status review for the Steller sea lion. Washington Department of Fish and Wildlife, Olympia, WA.
- Wilson, K. 2015a. The sad, strange story of Ethelbery Orca comes to a tragic end after weird interactions with humans. *The Chinook Observer*. Published March 10, 2015. Available online at http://www.chinookobserver.com/20150310/the-sad-strange-story-of-ethelbert-orca-comes-to-a-tragic-end-after-weird-interaction-with-humans.
- Wilson, K. 2015b. Animal roundup: Baby orca leads a parade of returning species. *The Chinook Observer*. Published March 4, 2015. Available online at http://www.wildsalmon.org/projects/the-orca-connection/.
- 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 Fisheries Science Center.
- Wydoski, R.S., and R.R., Whitney. 2003. *Inland Fishes of Washington*, Second Edition, Revised and Expanded. University of Washington Press, Seattle.

SECTION 3.7, ENERGY AND NATURAL RESOURCES

- BergerABAM. 2015. Response to EFSEC Draft EIS Data Request 1, DR1 EN-1 Quantities Estimate.xlsx, January 12.
- Blaufus, L. 2015. Senior Manager, Customer Accounts and Energy Services. Clark Public Utilities. Personal communication with Emily Merickel, Senior Staff Scientist, Cardno, April 7, 2015.
- Chang, L. 2015. Major Accounts Manager, Northwest Natural. Personal communication with Emily Merickel, Senior Staff Scientist, Cardno, May 13, 2015.

- Chattin, B. 2015. Executive Director. Washington Aggregates & Concrete Assn. Personal communication with Emily Merickel, Senior Staff Scientist, Cardno, March 5, 2015.
- Clark County. 2012. 20-Year comprehensive growth management plan 2004–2024. Available online at http://www.clark.wa.gov/Planning/comp_plan/documents/WebVersion_AmORD2012-12-20.pdf.
- Clark Public Utilities (CPU). 2012 Integrated Resource Plan. Adopted by the Commission on August 28, 2012. Available online at http://filehost.clarkpublicutilities.com/files/public/2012_ClarkPublicUtilitiesIRP_final.pdf.
- Gray, J. 2015. PE, President, Enersource Engineering. Personal communication with Katherine Clifford, Project Manager/Regulatory Compliance Specialist, Cardno, May 7, 2015.
- Johnson, C.N., S.P. Palmer, and J.L. Poelstra. 2005. Rock Aggregate Resource Lands Inventory Map for Clark County, Washington. Washington State Department of Natural Resources, Division of Geology and Earth Resources. Website (http://www.dnr.wa.gov/Publications/ger_rm1_aggregate_inventory_clark_co.pdf) accessed February 28, 2014.
- Lange, N. 2015. Sr. Manager, Major Account Services, NW Natural. 2015. Personal communication with Emily Merickel, Senior Staff Scientist, Cardno, March 4, 2015.
- Lower Columbia Region Harbor Safety Committee (LCRHSC). 2013. Lower Columbia Region Harbor Safety Plan. January.
- NW Natural. 2013. Integrated Resource Plan. Website (https://www.nwnatural.com/uploadedFiles/NWN_2013_IRP_3-27-13.pdf) accessed July 17, 2014.
- US Energy Information Administration (EIA). 2014a. Energy consumption estimates for major energy sources in physical units, 2011. Available online at http://www.eia.gov/state/seds/data.cfm?incfile=/state/seds/sep_sum/html/sum_use_tot.html&sid=US&sid=WA
- US Energy Information Administration (EIA). 2014b. Sales of distillate fuel oil by end use. Available online at: http://www.eia.gov/dnav/pet/pet_cons_821dst_dcu_nus_a.htm
- US Environmental Protection Agency (EPA). 2013. Control of emissions from idling locomotives. EPA-420-F-13-050. Office of Transportation and Air Quality, Ann Arbor, MI. December 2013.
- Washington State Department of Commerce. 2015. Washington State Electric Utility Fuel Mix Disclosure Reports for Calendar Year 2013: Revised March 2015. Available online at http://www.commerce.wa.gov/Documents/FMD-2014-Revised-March-2015-final.pdf
- Washington State Department of Ecology (Ecology). 2014. Sand and gravel general permits. Available online at https://fortress.wa.gov/ecy/facilitysite/SearchData/ShowSearch.aspx?ModuleType=FacilitySite& RecordSearchMode=New.

Washington State Department of Natural Resources (WDNR). 2005. Rock aggregate resource lands inventory map for Clark County, Washington. Available online at http://www.dnr.wa.gov/Publications/ger_rm1_aggregate_inventory_clark_co.pdf.

SECTION 3.8, ENVIRONMENTAL HEALTH

- Anchor Environmental LLC. 2008. Remedial investigation/feasibility study, ALCOA/Evergreen Vancouver site. September.
- Bishop, Ric. Chief Corrections Deputy, Clark County Washington Office of the Sheriff. 2015. Memorandum to Axel Swanson, Senior Policy Analyst, Clark County.
- BergerABAM. 2014. Applicant-prepared Preliminary Draft EIS. August.
- Federal Railroad Administration (FRA). 2015a. Highway-Rail Grade Crossing and Trespass Prevention. Website (http://www.fra.dot.gov/Page/P0040) accessed April 23, 2015.
- Federal Railroad Administration (FRA), Office of Safety Analysis. 2015b. Crossing History. February. Website (http://safetydata.fra.dot.gov/officeofsafety/publicsite/downloaddbf.aspx?itemno=7.02) accessed February 5, 2015.
- Federal Railroad Administration (FRA). 2015c. Railway-Highways Crossing (Section 130) Program. Website (http://safety.fhwa.dot.gov/xings/) accessed April 23, 2015. Page last modified on October 15, 2014.
- Federal Railroad Administration (FRA). 2015d. Division Overview. Website (https://www.fra.dot.gov/Page/P0397) accessed August 6, 2015
- Occupational Safety and Health Administration (OSHA). 2014. Traffic Safety in Marine Terminals. OSHA 3337-05R. Website https://www.osha.gov/Publications/3337-07-2007-English-07192007.html#ExecutiveSummary accessed August 9, 2015.
- Port of Vancouver (Port). 2015. Port of Vancouver USA Job Center. Website (http://www.portvanusa.com/about/job-center/) accessed August 9, 2015.
- The Oregon State Marine Board. 2007. Boating Guide to the Lower Columbia and Willamette Rivers, June.
- Washington State Department of Ecology (Ecology). 2008. Final Cleanup Action Plan. Prepared for Alcoa Inc.
- Washington State Department of Ecology (Ecology). 2015. Washington State 2014 Marine and Rail Oil Transportation Study. Publication Number 15-08-010, March 1.
- Washington Utilities and Transportation Committee (UTC). 2014. Information on pedestrian trespass fatalities and at-grade vehicle crossing fatalities. Website (http://www.utc.wa.gov/publicSafety/railSafety/Pages/OLCrashStatistics.aspx) accessed April 23, 2015.

SECTION 3.9, NOISE

- American Correctional Association (ACA). 2013. Standards Committee Meeting Minutes, American Correctional Association, 2013 Winter Conference, Houston, Texas, January 25th, 2013. Website (http://www.aca.org/ACA_PROD_IMIS/docs/Standards%20and%20Accreditation/sac_January_2 013.pdf) accessed February 4, 2015.
- Anderson, C.B. 2009. Assessment of railway activity and train noise exposure: a Teaneck, New Jersey case study. Thesis. Graduate School–New Brunswick Rutgers, The State University of New Jersey. October.
- BergerABAM. 2014. Chapter 5, Tesoro Savage Vancouver Energy Distribution Facility Preliminary Draft EIS. August.
- BST Associates. 2011. Pacific Northwest Marine Cargo Forecast Update and Rail Capacity Assessment. Final Report. Prepared with Main Line Management. December.
- Burlington Northern Santa Fe (BNSF) Railway. 2015. Train Horns. Website (http://www.bnsf.com/communities/faqs/train-horns/#quiet) accessed July 27, 2015.
- California Department of Transportation (Caltrans). 2009. Technical Noise Supplement. Available online at http://www.dot.ca.gov/hq/env/noise/pub/tens_complete.pdf.
- Caswell, S.J., and Jakus, K. 1977. Role of land use planning in noise control. Website (http://www.treesearch.fs.fed.us/pubs/11556) accessed January, 20, 2015.
- DataKustik Gmbh. 2011. CadnaA Version 4.1.138. Munich, Germany.
- Energy Facility Site Evaluation Council (EFSEC). 2015. Laws and Rules. Available online at http://www.efsec.wa.gov/lawrule.shtml.
- Federal Highway Administration (FHWA). 2006. FHWA Roadway Construction Noise Model User's Guide. January. Available online at http://www.fhwa.dot.gov/environment/noise/construction_noise/rcnm/rcnm.pdf.
- Federal Transit Administration (FTA). 2006. Transit Noise and Vibration Impact Assessment (FTA-VA-90-1003-06). May. Available online at http://www.fta.dot.gov/documents/FTA_Noise_and_Vibration_Manual.pdf
- Federal Railroad Administration (FRA) and Harris Miller & Hanson Inc. 2006. CREATE Noise Model User Guide, 2006. Available online at http://www.fra.dot.gov/eLib/Details/L03728.
- Intermountain Consumer Professional Engineers, Inc. (ICPE). 2013. Emails from Nic Nash August 1) and Fred Mostachari (December 17) with Attachments 1 and 4 to March 2, 2015, response to DR5.
- US Environmental Protection Agency (EPA). 1971. Noise from Construction Equipment and Operations, Building Equipment, and Home Appliances. December 31. Washington DC. Website (http://nepis.epa.gov/Exe/ZyPDF.cgi/9101NN3I.PDF?Dockey=9101NN3I.PDF) accessed February 9, 2015.

- US Environmental Protection Agency (EPA). 1974. Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety. EPA 550/9-74-004. Available online at http://www.nonoise.org/library/levels74/levels74.htm.
- US Environmental Protection Agency (EPA). 1978. Protective Noise Levels. EPA 550/9-79-100. Available online at http://nepis.epa.gov.
- US Environmental Protection Agency (EPA). 2013a. EPA Air and Radiation, Noise Pollution, Noise Sources Regulated by EPA. Available online at http://www.epa.gov/air/noise.html#regulate.
- US Environmental Protection Agency (EPA). 2013b. EPA Air and Radiation, Noise Pollution, Frequently Asked Questions. Website (http://publicaccess.supportportal.com/ics/support/kbanswer.asp?deptID=23012&task=knowledg e&questionID=15642).
- Washington State Department of Transportation (WSDOT). 2004. Draft Environmental Impact Statement for SR 99: Alaskan Way Viaduct & Seawall Replacement Project, Appendix F Noise and Vibration Discipline Report. Prepared by Parsons Brinckerhoff Quade & Douglas, Inc., March. Website (http://www.wsdot.wa.gov/projects/viaduct/Media/Default/Documents/Environmental/DEISAppe ndixFNoiseandVibration.pdf) accessed July 17, 2015.
- Wilson Ihrig and Associates. 2011. Noise Impact Study, Interim Report, Port of Vancouver, Terminal 5 Development, Noise Impact Assessment for future BHP Billiton Operations Potash Facility. July 6.
- Wilson Ihrig and Associates. 2012. Letter to Mr. Kim Shaffer, Project Manager, Port of Vancouver, re: Noise Study for Port of Vancouver Substation next to Clark County Jail Work Center, Vancouver, Washington, June 19, 2012. Website (http://www.portvanusa.com/assets/tinymce/files/19.%20CPU%20Substation_Noise_Study.pdf) accessed February 4, 2015.

SECTION 3.10, LAND AND SHORELINE USE

- City of Kennewick. 2013. Comprehensive Plan Land Use Map. Available online at http://www.go2kennewick.com/go2kennewick/DocumentHandler.ashx?path=Documents%2fBuil ding+-+Planning+%26+Land+Use%2fComprehensive+Plan+Land+Use+Map.
- City of Pasco. 2007. Comprehensive Plan 2007 to 2027, Volume 1 Goals and Policies. Available online at http://www.pasco-wa.gov/DocumentCenter/Home/View/2592.
- City of Vancouver. 1994 (revised 2004, 2011). Comprehensive Plan 2011-2030.
- City of Vancouver. 2004. Vancouver Municipal Code, Development Code. Website (http://www.cityofvancouver.us/vmc?tid=334&throbber=1) accessed March 15, 2015.
- City of Vancouver. 2007. Vancouver City Center Vision & Subarea Plan.
- City of Vancouver. 2011. Vancouver Comprehensive_Plan, 2011-2030. Website (http://www.cityofvancouver.us/sites/default/files/fileattachments/community_and_economic_de velopment/page/874/vancouver_comprehensive_plan_2014.pdf) accessed March 15, 2015

City of Vancouver. 2012. City of Vancouver Shoreline Master Program. Effective: September 24.

- City of Vancouver. 2014a. Downtown Vancouver Train Horn Noise. Website (http://www.cityofvancouver.us/publicworks/page/downtown-vancouver-train-horn-noise. Accessed April 20, 2015.
- City of Vancouver. 2014b. City awarded grant for waterfront street improvements. Press Release Date December 19, 2013. Website (http://www.cityofvancouver.us/ced/page/city-awarded-grant-waterfront-street-improvements) accessed April 20, 2015.
- Energy Facility Site Evaluation Council (EFSEC) 2014. Council Order No. 872. Order Determining Land Use Consistency. In the Matter of Application No. 2013-01: Tesoro Savage Vancouver Energy Distribution Terminal. August 1.
- Fischer, A.M.E. 2015. Waterfront Park design contract approved. *The Columbian*. April 6, 2015, 8:50 PM. Website (http://www.columbian.com/news/2015/apr/06/waterfront-park-design-contractapproved/) accessed April 13, 2015.
- Port of Vancouver (Port). 2015. Strategic Advantages. Websites (http://www.portvanusa.com/industrial/strategic-advantages/ http://www.portvanusa.com/marine/strategic-advantages/) accessed July 10, 2015.
- Portland State University. 2014. Annual Oregon population report. Available online at http://www.pdx.edu/prc/annual-oregon-population-report.
- Real Estate Investment Group. 2014. Waterfront marketing package–2014. Website (http://reig.listinglab.com/prop3439/index.cfm) accessed July 7, 2014.
- Vancouver Waterfront. 2015. Master Plan. Website (http://www.thewaterfrontvancouverusa.com/masterplan.html) accessed April 13, 2015.
- Washington State Office of Financial Management. 2014. April 1, 2014, population of cities, towns, and counties used for allocation of selected state revenues, State of Washington. Available online at http://www.ofm.wa.gov/POP/april1/ofm_april1_population_final.pdf.

SECTION 3.11, VISUAL RESOURCES

BergerABAM. 2014. Tesoro Savage Vancouver Energy Distribution Facility Preliminary Draft EIS. July.

- BergerABAM. 2015. Response to EFSEC Draft EIS Data Request 1, January 12, 2015.
- Bureau of Land Management (BLM). 1986a. Manual H-8410-1 Visual Resource Inventory. Website (http://www.blm.gov/wo/st/en/prog/Recreation/recreation_national/RMS/2.html) accessed March 2015.
- Bureau of Land Management (BLM). 1986b. Manual H-8431-1 Visual Resource Contrast Rating. Website (http://www.blm.gov/wo/st/en/prog/Recreation/recreation_national/RMS/2.html) accessed March 2015.

- City of Vancouver. 2011. Vancouver Comprehensive Plan, 2011-2030. Website (http://www.cityofvancouver.us/sites/default/files/fileattachments/community_and_economic_de velopment/page/874/vancouver_comprehensive_plan_2014.pdf) accessed March 15, 2015.
- City of Vancouver. 2012. City of Vancouver Shoreline Master Program. September 24. Website (http://www.ecy.wa.gov/programs/sea/shorelines/smp/pdf/vancouverSMP.pdf) accessed July 29, 2015.
- Washington State Department of Ecology (Ecology). 2015. Washington State 2014 Marine and Rail Oil Transportation Study. Publication Number 15-08-010, March 1.
- Oregon Department of Environmental Quality (ODEQ). 2008. Columbia River Gorge Air Quality Study Emission Inventory Report. Portland, Oregon.
- Oregon Department of Environmental Quality (ODEQ). 2011. Columbia River Gorge Air Study and Strategy September 15, 2011 Final. Portland, Oregon.
- Pitchford, M.L., M.C. Green, R. Morris, C. Emery, R. Sakata, C. Swab, and P.T. Mairose. 2008. Columbia River Gorge Air Quality Study Science Summary Report. Final Report February 8, 2008.
- US Forest Service. 1995. Landscape Aesthetics: A Handbook for Scenery Management. December. Website (http://www.fs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb5412126.pdf) accessed July 29, 2015.
- Washington State Department of Transportation (WSDOT). 2014. Washington State Scenic and Recreational Highways. 2014. Website (http://www.wsdot.wa.gov/LocalPrograms/ScenicByways/) accessed February 3, 2015.

SECTION 3.12, RECREATION

- Bureau of Land Management (BLM). 1993. Lower Deschutes River Management Plan Record of Decision. February. Website (http://www.blm.gov/or/districts/prineville/plans/files/lower_deschutes_rmp.pdf) accessed March 20, 2015.
- Bureau of Land Management (BLM). 2015. John Day River. Website (http://www.blm.gov/or/resources/recreation/johnday/) accessed March 18.
- City of Spokane. 2015. Fish Lake Trail. Website (https://static.spokanecity.org/documents/parks/trails/fish-lake-trail-brochure.pdf) accessed March 18.
- City of Vancouver. 2014. Waterfront Park Project. Website (http://www.cityofvancouver.us/waterfrontpark) accessed February 27.
- City of Vancouver. 2015a. Burnt Bridge Creek Trail. Website (http://www.cityofvancouver.us/parksrec/page/burnt-bridge-creek-trail-8-miles) accessed March 24.

- City of Vancouver. 2015b. Waterfront Renaissance Trail. Website (http://www.cityofvancouver.us/sites/default/files/fileattachments/parks_and_recreation/page/173 7/renaissancetrail.pdf) accessed March 18.
- Lake Roosevelt Forum Newsletter. 2014. Fall. Website (http://www.ucrrifs.com/assets/Uploads/LRFnlFa2014.pdf) accessed April 14, 2015.
- Metro. 2014. Regional Trails and Greenways. Summer. Website (http://www.oregonmetro.gov/sites/default/files/2014%20Regional%20Trails%20and%20Greenw ays%20publication_print.pdf) accessed March 3.
- National Oceanic and Atmospheric Administration (NOAA). 2014. Final Environmental Impact Statement to Inform Columbia River Basin Hatchery Operations and the Funding of Mitchell Act Hatchery Programs. Website (http://www.westcoast.fisheries.noaa.gov/publications/nepa/hatchery/mitchell_act_hatcheries_fei s_final.pdf) accessed February 27, 2015.
- National Park Service (NPS). 2001. Ice Age Floods Study of Alternatives and Environmental Assessment. February. Website (http://www.nps.gov/iceagefloods/) accessed April 14, 2015.
- National Park Service (NPS). 2015. Fort Vancouver. Website (http://www.nps.gov/fova/learn/index.htm) accessed March 20.
- Oregon Department of Fish and Wildlife (ODFW). 2012. Sauvie Island Wildlife Area Management Plan. April. Website (http://www.dfw.state.or.us/wildlife/management_plans/wildlife_areas/docs/SIWA%20Managem ent%20Plan%20April%202012.pdf) accessed March 2015.
- Oregon Department of Fish and Wildlife (ODFW). 2014. States add another month to Lower Columbia Chinook Season. May 13. Website (http://www.dfw.state.or.us/news/2014/may/051314c.asp) accessed February 26, 2015.
- Oregon Department of Fish and Wildlife (ODFW) 2015a. Sport Fishing Regulation Updates Columbia Zone. Website (http://www.dfw.state.or.us/resources/fishing/reg_changes/columbia.asp) accessed February 26 and March 18.
- Oregon Department of Fish and Wildlife (ODFW). 2015b. Oregon Sport Fishing Regulations. Website (http://www.dfw.state.or.us/fish/docs/2015/2015%20Columbia%20River%20Zone%20Sport%20 Fishing%20Regs_r11-5-14.pdf) accessed February 26.
- Oregon Department of Fish and Wildlife (ODFW). 2015c. Marine Zone Fishing. Website (http://www.dfw.state.or.us/RR/marine/) accessed July 29.
- Oregon Department of Forestry. 2001. Final Northwest Oregon State Forest Management Plan. January. Website (http://library.state.or.us/repository/2010/201004121639141/ODF_STATE_FORESTS_docs_ma nagement_nwfmp_14-2-Resources_prn.pdf) accessed March 20, 2015.
- Oregon Department of Forestry. 2015. Recreation. Website (http://www.oregon.gov/odf/pages/field/astoria/state_forest_management/recreation_main.aspx) accessed March 20.

- Oregon State Marine Board. 2010. Triennial Survey Results 2010. Website (https://data.oregon.gov/Recreation/Activity-By-County-And-Waterbody/6cn5-hn6g) accessed March 19, 2015.
- Port of Cascade Locks. 2012. Connect Cascade Locks. Website (http://www.pdx.edu/usp/sites/www.pdx.edu.usp/files/Connect_Cascade_Locks_Final_Doc.pdf) accessed March 18, 2015.
- Port of Portland. 2010. Recreation Participation, Development Potential, and Current Value on and Around West Hayden Island. June. Website (https://www.portlandoregon.gov/bps/article/303415) accessed February 27, 2015.
- Sall, Jessica. Fish Communications Coordinator, Oregon Department of Fish and Wildlife. 2015. Personal communication with Lee Elder, Project Economist, Cardno, February 27 and April 13, 2015.
- Spokane County. 2015. Spokane River Centennial Trail. Website (http://www.spokanecounty.org/parks/content.aspx?c=2684) accessed March 18.
- US Coast Guard (USCG). 2015. Sector Columbia River, Buoy 10 Task Force. Website (http://www.uscg.mil/d13/sectcolrvr/ops/buoy10.asp) accessed March 25.
- US Fish and Wildlife Service (USFWS). 2006. Steigerwald Lake, Franz Lake and Pierce National Wildlife Refuges. January. Website (http://www.fws.gov/pacific/planning/main/docs/WA/cgorge/Gorgeupdate4.pdf) accessed March 19, 2015.
- US Fish and Wildlife Service (USFWS). 2014. McNary National Wildlife Refuge. August. Website (http://www.fws.gov/mcriver/regulations/documents/mcnary-headquarters.pdf) accessed March 19, 2015.
- US Fish and Wildlife Service (USFWS). 2015a. McNary, Visitor Activities. Website (http://www.fws.gov/refuge/McNary/Visit/Visitor_Activities.html) accessed March 20.
- US Fish and Wildlife Service (USFWS). 2015b. Turnbull, Website (http://www.fws.gov/refuge/Turnbull/visit/visitor_activities.html) accessed March 20.
- US Fish and Wildlife Service (USFWS) 2015c. Little White Salmon National Fish Hatchery. Website (http://www.fws.gov/gorgefish/littlewhite/) accessed March 24.
- US Fish and Wildlife Service (USFWS). 2015d. Spring Creek National Fish Hatchery. Website (http://www.fws.gov/gorgefish/springcreek/visit.html) accessed March 24.
- US Fish and Wildlife Service (USFWS). 2015e. Turnbull National Wildlife Refuge, Elk and Youth Waterfowl Hunt. Website (http://www.fws.gov/refuge/Turnbull/Visit/Visitor_Activities/Elk_and_Youth_Waterfowl_Hunt.h tml) accessed March 19.
- US Fish and Wildlife Service (USFWS). 2015f. Julia Butler Hansen, Visitor Activities. Website (http://www.fws.gov/refuge/julia_butler_hansen/visitor_activities.html) accessed March 20.

- US Fish and Wildlife Service (USFWS). 2015g. Lewis and Clark NWR, Recreation and Education Opportunities. Website (http://www.fws.gov/refuges/profiles/recEdMore.cfm?ID=13555) accessed March 20.
- US Fish and Wildlife Service (USFWS). 2015h. Ridgefield NWR, Visitor Activities. Website (http://www.fws.gov/refuge/Ridgefield/visit/visitor_activities.html) accessed March 20.
- US Forest Service (USFS). 2015. Klickitat Rails to Trails. Website (http://www.fs.usda.gov/recarea/crgnsa/recreation/hiking/recarea/?recid=29940&actid=24) accessed March 19.
- Vancouver-Clark Lake Parks & Recreation. 2013. Lewis River-Vancouver Lake Water Trail Paddling Guide. Website (http://www.portridgefield.org/Libraries/Misc_Documents/Vancouver_Lake_Lake_River_Paddle Guide-web.sflb.ashx) accessed February 25, 2015.
- Washington Department of Fish and Game (WDFW). 2006. Sunnyside/Snake River Wildlife Area Management Plan. Website (http://wdfw.wa.gov/publications/00541/wdfw00541.pdf) accessed March 20, 2015.
- Washington Department of Fish and Game (WDFW). 2014a. Washington State Migratory Waterfowl & Upland Game Seasons. September 15. Website (http://wdfw.wa.gov/publications/01635/wdfw01635.pdf) accessed February 23, 2015.
- Washington Department of Fish and Wildlife (WDFW). 2014b. Washington's Salmon Fisheries Set for 2014. Website (http://wdfw.wa.gov/news/apr1014a/) accessed March 25, 2015.
- Washington Department of Fish and Wildlife (WDFW) 2015a. Shillapoo Wildlife Area: Vancouver Lake Unit, Website (http://wdfw.wa.gov/lands/wildlife_areas/shillapoo/Vancouver%20Lake/) accessed February 23.
- Washington Department of Fish and Wildlife (WDFW). 2015b. Vancouver Lake. Website (http://wdfw.wa.gov/fishing/washington/741/) accessed February 26 and March 23.
- Washington Department of Fish and Wildlife (WDFW). 2015c. Columbia Basin Bird Hunting Guide. Website (http://www.dfw.state.or.us/resources/hunting/bird/docs/columbia_basin_bird_hunting_ guide.pdf) accessed March 19.
- Washington Department of Fish and Wildlife (WDFW). 2015d. Klickitat Wildlife Area: Sondino Ponds Unit. Website (http://wdfw.wa.gov/lands/wildlife_areas/klickitat/Sondino%20Ponds/) accessed March 19.
- Washington State Agency Assistance Team. 2001. Lewis and Clark Trail Highway, Corridor Action Plan. September. Website (www.wsdot.wa.gov/NR/rdonlyres/4BDEC9EB-5BA5-4AF2-B499-A866D5B1BF1E/0/LewisandClarkCMP.pdf) accessed April 15, 2015.
- Washington State Parks. 2015. Columbia Plateau Trail State Park. Website (http://www.parks.wa.gov/490/Columbia-Plateau-Trail) accessed March 18.

WorleyParsons. 2014. Vessel Traffic Risk Assessment Traffic Impact Analysis. September.

SECTION 3.13, HISTORIC AND CULTURAL RESOURCES

- Aikens, M.C. 1993. *Archaeology of Oregon*. US Department of the Interior, Bureau of Land Management, Portland, OR.
- AINW. 2015. Vancouver Energy Cultural Resources Geoarchaeological Investigation Report. Archaeological Investigations Northwest, Inc., Portland. Report prepared for Tesoro Savage Petroleum Terminal LLC, Vancouver.
- Ames, K., D.E. Dumond, J.R. Galm, and R. Minor. 1998. Prehistory of the Southern Plateau. In *Plateau*, Wayne Suttles, ed., pp. 103-119. *Handbook of North American Indians*, Volume 12, William C. Sturtevant, general ed. Smithsonian Institution Press, Washington, DC.
- Ames, K.M., and H.D.G. Maschner. 1999. *Peoples of the Northwest Coast: Their Archaeology and Prehistory*. Thames and Hudson, Ltd., London.
- Anastasio, A. 1972. The Southern Plateau: an ecological analysis of intergroup relations. *Northwest Anthropological Research Notes* 6(2): Fall.
- Beckham, S.D. 1990. History of Western Oregon since 1846. In Northwest Coast, Wayne Suttles, ed., pp. 180-188. Handbook of North American Indians, Volume 7, William C. Sturtevant, general ed. Smithsonian Institution, Washington, DC.
- BergerABAM. 2014. Tesoro Savage Vancouver Energy Distribution Facility Preliminary Draft EIS. July.
- Bureau of Indian Affairs. 1975 [1942]. Report on Source, Nature and Extent of the Fishing, Hunting and Miscellaneous Related Rights of Certain Indian Tribes in Washington and Oregon together with Affidavits Showing Locations of a Number of Usual and Accustomed Fishing Grounds and Stations. Reprint. US Department of Interior, Office of Indian Affairs, Division of Forestry and Grazing, Los Angeles, CA. On file, Oregon State Historic Preservation Office, Salem.
- Butler, V.L., and M.A. Martin. 2013. Aboriginal Fisheries of the Lower Columbia River. In *Chinookan Peoples of the Lower Columbia*, R.T. Boyd, K.M. Ames, and T.A. Johnson, eds., pp. 106-124. University of Washington Press, Seattle.
- Carlson, C.C. 2003. The Bear Cove fauna and the subsistence history of Northwest Coast maritime culture. In *Archaeology of Coastal British Columbia: Essays in Honour of Philip M. Hobler*, R.L. Carlson, ed., pp. 65-86. Archaeology Press, Simon Fraser University, Burnaby.
- Carlson, R.L. 1990. Cultural Antecedents. In *Northwest Coast*, Wayne Suttles, ed., pp. 60-69. *Handbook* of North American Indians, Volume 7, William C. Sturtevant, general ed. Smithsonian Institution, Washington, DC.
- Cole, D., and D. Darling. 1990. History of the Early Period. In Northwest Coast, Wayne Suttles, ed., pp. 119-134. Handbook of North American Indians, Volume 7, William C. Sturtevant, general ed. Smithsonian Institution, DC.
- Colombia River Gorge. nd. History. Available online at http://www.columbiarivergorge.info/history.html.
- Columbia River Inter-Tribal Fish Commission. nd. In-lieu/Treaty Fishing Access Sites. Available online at http://www.critfc.org/for-tribal-fishers/in-lieutreaty-fishing-access-sites/.

- Dixon, E.J. 1993. *Quest for the Origins of the First Americans*. University of New Mexico Press, Albuquerque.
- Fagan, J. 1974. Altithermal Occupation of Spring Sites in the Northern Great Basin. University of Oregon Anthropological Papers 6. University of Oregon, Eugene.
- Fedje, D.W., and T. Christensen. 1999. Modeling Paleoshorelines and Locating Early Holocene Coastal Sites in Haida Gwaii. *American Antiquity* 64:635-652.
- Flint, K. 2015. Vancouver Energy Cultural Resources Inadvertent Discovery Plan. Archaeological Investigations Northwest, Inc., Portland. Prepared for Tesoro Savage Petroleum Terminal LLC, Vancouver.
- French, D.H., and K.S. French. 1998. Wasco, Wishram, and Cascades. In *Plateau*, Wayne Suttles, ed., pp. 360-377. *Handbook of North American Indians*, Volume 12, William C. Sturtevant, general ed. Smithsonian Institution Press, Washington, DC.
- Fuld, K.A., J.A. Chapman, and J. Reese. 2013. Cultural Resource Review for the Tesoro Savage Vancouver Energy Distribution Terminal Project, Vancouver, Clark County, WA. Report prepared for Berger ABAM, Vancouver. Archaeological Investigations Northwest, Inc., Portland.
- Grabowski, Stephen. 2015. Structure of a resource: biology and ecology of Pacific Salmon in the Columbia River Basin. In *Rivers, Fish, and the People: Tradition, Science, and Historical Ecology of Fisheries in the American West,* Pei-Lin Yu, ed., pp. 12-41. University of Utah Press, Salt Lake City.
- Grier, C. 2007. Consuming the recent for constructing the ancient: the role of ethnography in Coast Salish archaeological interpretations. In *Be of Good Mind: Essays on the Coast Salish*, B.G. Miller, ed., pp. 284-307. UBC Press, Vancouver.
- Hadja, Y.P. 1990. Southwestern Coast Salish. In Northwest Coast, Wayne Suttles, ed., pp. 503-517. Handbook of North American Indians, Volume 7, William C. Sturtevant, general ed. Smithsonian Institution Press, Washington, DC.
- Haines, F. 1938. The northward spread of horses among the Plains Indians. *American Anthropologist* 40:429–437.
- Harrison, J. 2008. Indian Fishing. Northwest Power and Conservation Council. October 31. Available online at https://www.nwcouncil.org/history/IndianFishing.
- Hunn, E.S. 1990. Nch'i-Wana, "The Big River:" Mid-Columbia Indians and their Land. University of Washington Press, Seattle.
- Hunn, E.S., and D.H. French. 1998. Western Columbia River Sahaptins. In *Plateau*, Wayne Suttles, ed., pp. 378-394. *Handbook of North American Indians*, Volume 12, William C. Sturtevant, general ed. Smithsonian Institution Press, Washington, DC.
- Kirk, R., and R.D. Daugherty. 2007. Archaeology in Washington. University of Washington Press, Seattle.

- Lang, W.L. 2013. The Chinookan encounter with Euro-Americans in the Lower Columbia River Valley. In *Chinookan Peoples of the Lower Columbia*, R.T. Boyd, K.M. Ames, and T.A. Johnson, eds., pp. 250-271. University of Washington Press, Seattle.
- Marino, C. 1990. History of Western Washington since 1846. In Northwest Coast, Wayne Suttles, ed., pp. 169-179. Handbook of North American Indians, Volume 7, William C. Sturtevant, general ed. Smithsonian Institution Press, Washington, DC.
- Meinig, D. 1968. *The Great Columbia Plain: A Historical Geography 1805-1910*. University of Washington Press, Seattle.
- Miller. J. 1998. Middle Columbia River Salishans. In *Plateau*, Wayne Suttles, ed., pp. 253-270. *Handbook of North American Indians*, Volume 12, William C. Sturtevant, general ed. Smithsonian Institution Press, Washington, DC.
- National Historic Oregon Trail Interpretive Center. nd. Basic Facts about the Oregon Trail. Available online at http://www.blm.gov/or/oregontrail/historybasics.php.
- Oregon Blue Book. 2013. Oregon History: Spread of Settlement. Available online at http://www.bluebook.state.or.us/cultural/history/history13.htm.
- Palmer, G.B. 1998. Coeur d'Alene. In *Plateau*, Wayne Suttles, ed., pp. 313-326. *Handbook of North American Indians*, Volume 12, William C. Sturtevant, general ed. Smithsonian Institution Press, Washington, DC.
- Ray, V. 1936. Native villages and groupings of the Columbia Basin. *Pacific Northwest Quarterly* 27:99-152.
- Ray, V. 1939. Cultural relations in the Plateau of Northwest America. *Publications of the Frederick Webb Hodge Anniversary Publication Fund* 3. Los Angeles.
- Ross, J.A. 1998. Spokane. In *Plateau*, Wayne Suttles, ed., pp. 271-282. *Handbook of North American Indians*, Volume 12, William C. Sturtevant, general ed. Smithsonian Institution Press, Washington, DC.
- Schalk, R. 1980. Cultural Resource Investigations for the Second Powerhouse Project at McNary Dam, Near Umatilla, Oregon. Laboratory of Archaeology and History Project Report No. 1. Pullman, WA.
- Schuster, H.H. 1998. Yakima and Neighboring Groups. In *Plateau*, Wayne Suttles, ed., pp. 327-351. *Handbook of North American Indians*, Volume 12, William C. Sturtevant, general ed. Smithsonian Institution Press, Washington, DC.
- Silverstein, M. 1990. Chinookans of the Lower Columbia. In *Northwest Coast*, Wayne Suttles, ed., pp. 533-546. *Handbook of North American Indians*, Volume 7, William C. Sturtevant, general ed. Smithsonian Institution Press, Washington, DC.
- Sobel, E.A., K.M. Ames, and R.J. Losey. 2013. Environment and archaeology of the Lower Columbia. In *Chinookan Peoples of the Lower Columbia*, R.T. Boyd, K.M. Ames, and T.A. Johnson, eds., pp. 23-41. University of Washington Press, Seattle.

- Sprague, R. 1998. Palouse. In *Plateau*, Wayne Suttles, ed., pp. 352-359. *Handbook of North American Indians*, Volume 12, William C. Sturtevant, general ed. Smithsonian Institution Press, Washington, DC.
- Stern, T. 1998. Cayuse, Umatilla, and Walla Walla. In *Plateau*, Wayne Suttles, ed., pp. 395-419. *Handbook of North American Indians*, Volume 12, William C. Sturtevant, general ed. Smithsonian Institution Press, Washington, DC.
- Suttles, W. 1990. Introduction. In Northwest Coast, Wayne Suttles, ed., pp. 1-15. Handbook of North American Indians, Volume 7, William C. Sturtevant, general ed. Smithsonian Institution Press, Washington, DC.
- Thorsgard, E., D. Harrelson, B. Edwards, and D. Lewis. 2013. Mouth of the Cowlitz River Traditional Cultural Property Study. Report prepared for EBI on behalf of Verizon Wireless in association with FCC's TCNS# 89866. Cultural Protection Program, Confederated Tribes of the Grand Ronde Community of Oregon. On file, Oregon State Historic Preservation Office, Salem.
- US Army Corps of Engineers (USACE). 2014. Letter Report to Dennis Griffin, PhD, Oregon Parks and Recreation Department, State Historic Preservation Office, re: Nisxt site NRHP eligibility, August 14.
- Walker, D.E. 1998a. Plateau. In *Plateau*, Wayne Suttles, ed., pp. 1-7. *Handbook of North American Indians*, Volume 12, William C. Sturtevant, general ed. Smithsonian Institution Press, Washington, DC.
- Walker, D.E. 1998b. Nez Perce. In Plateau, Wayne Suttles, ed., pp. 420-438. Handbook of North American Indians, Volume 12, William C. Sturtevant, general ed. Smithsonian Institution Press, Washington, DC.
- Walker, D.E., and R. Sprague. 1998. History until 1846. In *Plateau*, Wayne Suttles, ed., pp. 138-148. Handbook of North American Indians, Volume 12, William C. Sturtevant, general ed. Smithsonian Institution Press, Washington, DC.
- Washington State Department of Natural Resources (WDNR). 2015. Geology of Washington Columbia Basin. Available online at http://www.dnr.wa.gov/ResearchScience/Topics/GeologyofWashington/Pages/columbia.aspx.

SECTION 3.14, TRANSPORTATION

- American Association of State Highway and Transportation Officials. 2011. A Policy on Geometric Design of Highways and Streets. 6th Edition.
- Analysis Group, Inc. 2014. Assessment of the Vancouver Energy Socioeconomic Impacts: Secondary Economic Impacts. September.
- BergerABAM. 2014. Vancouver Energy, SEPA Draft EIS. July.
- BergerABAM. 2015. Vancouver Energy Project Description Updates for Draft Environmental Impact Statement (DEIS) Development. May 27.

BNSF Railway. 2015. BNSF Railway – Hazardous Material Transportation. April 15. Prepared by Justin Piper, CHMM, Assistant Director, Hazardous Materials, BNSF Railway. Website (http://www.oregon.gov/osp/SFM/docs/OR%20SERCBNSF.pdf) accessed October 31, 2015.

City of Vancouver. 2011. Vancouver Comprehensive Plan 2011-2030.

City of Vancouver. 2012. Traffic Study Guidelines. January.

Edberg, M. 2015. Director of Engineering and Project Delivery, Port of Vancouver. Personal communication with Jan Aarts, Project Manager, Cardno. September 16, 2015.

Federal Highway Administration (FHWA). 2007. FHWA railroad-highway grade crossing handbook glossary. Revised second edition. Website (http://safety.fhwa.dot.gov/xings/com_roaduser/07010/appena.htm) accessed March 2, 2014.

- Federal Highway Administration (FHWA). 2009. Manual on Uniform Traffic Control Devices. December.
- Federal Highway Administration (FHWA). 2014. FHWA highway-rail grade crossing definitions website. Website (http://safety.fhwa.dot.gov/xings/com_roaduser/xing_defs.cfm) accessed March 2, 2014. Washington, DC.
- Federal Railroad Administration (FRA), Office of Safety Analysis. 2015. Crossing History. February. Website (http://safetydata.fra.dot.gov/officeofsafety/publicsite/downloaddbf.aspx?itemno=7.02) accessed February 5, 2015.
- Harding, Matt. Environmental Project Manager, Port of Vancouver. 2015. Email to Patricia Betts, Energy Facility Site Evaluation Council, Environmental Planner, June 25, 2015.
- Joint Transportation Committee (JTC). 2015. Current Studies 2015-16 (see Study of Road-Rail Conflicts in Cities [2016]). Website (http://leg.wa.gov/JTC/Pages/CurrentStudies.aspx) accessed October 31, 2015.
- Kittelson & Associates, Inc. 2014. Tesoro Savage Energy Distribution Terminal Transportation Impact Analysis. July.
- National Oceanic and Atmospheric Administration (NOAA). 2014. United States Coast Pilot 7 Pacific Coast: California, Oregon, Washington, Hawaii, and Pacific Islands, 46th Edition.
- Port of Vancouver (Port). 2015. West Vancouver Freight Access. Website (http://www.portvanusa.com/wvfa/wvfa-home/) accessed September 18, 2015.

Transportation Research Board (TRB). 2000. Highway Capacity Manual. October.

- U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration (PHMSA). 2015. Hazardous Materials: Enhanced Tank Car Standards and Operational Controls for High-Hazard Flammable Trains, Final Rule, May. Docket No. PHMSA-2012-0082.
- Washington State Department of Ecology (Ecology). 2015. Washington State 2014 Marine and Rail Oil Transportation Study. Publication Number 15-08-010, March 1.

- Washington State Department of Transportation (WSDOT). 2012. Local Agency Guidelines (M 36-63.25), Chapter 32 – Railroad/Highway Crossings. Website (http://www.wsdot.wa.gov/publications/manuals/fulltext/m36-63/Lag32.pdf) accessed April 20, 2014.
- Washington State Department of Transportation (WSDOT). 2014a. Traffic volume map. Available online at http://www.wsdot.wa.gov/mapsdata/tools/traffictrends/.
- Washington State Department of Transportation (WSDOT). 2014b. Washington State Rail Plan, Integrated Freight and Passenger Rail Plan. Website (http://www.wsdot.wa.gov/Rail/staterailplan.htm) accessed July 17, 2015.
- Washington State Department of Transportation (WSDOT). 2014c. Passenger Rail in Washington State. In Final Washington State Rail Plan 2013-2035. March. Website (http://www.wsdot.wa.gov/NR/rdonlyres/76FD2DE4-FE0B-4E6F-8943-43B5B4CC3DCA/0/3PassengerRailInWashingtonStatecompressed.pdf) accessed October 31, 2015.
- Washington State Department of Transportation (WSDOT). 2015a. Passenger Rail Partnerships. Website (http://www.wsdot.wa.gov/Rail/Partnerships.htm) accessed October 31, 2015.
- Washington State Department of Transportation (WSDOT). 2015b. West Vancouver Freight Access Project. Website (http://www.wsdot.wa.gov/Projects/Local/west-vancouver-freight-accessproject.htm) accessed September 19, 2015.
- Washington State Transportation Commission. 2010. Washington Transportation Plan 2030. December Website (http://wstc.wa.gov/WTP/documents/WTP2030_Final_1210.pdf) accessed on March 12, 2014.

WorleyParsons. 2014. Vessel Traffic Risk Assessment Traffic Impact Analysis. September 4.

SECTION 3.15, PUBLIC SERVICES AND UTILITIES

- Berger ABAM. 2014. Tesoro Savage Vancouver Energy Distribution Facility Preliminary Draft EIS. July.
- Burlington Northern Santa Fe (BNSF). 2015a. Police Team. Website (http://www.bnsf.com/communities/safety-and-security/police-team/) accessed April 28.
- Burlington Northern Santa Fe (BNSF). 2015b. Emergency Responders. Website (http://www.bnsf.com/communities/bnsf-and-the-environment/responsible-care/emergency-responders.html) accessed April 28.
- City of Vancouver. 2007. Water System Comprehensive Plan. Available online at https://caps.us.cardno.com/caps/nrhs/TesoroSavageVancouver/References/Chapter%204/4.12/4.1 2_City%20of%20Vancouver%202007/Cover,%20Spine,%20tabs/Cover%20-%2011x11.pdf
- City of Vancouver. 2011. Vancouver Comprehensive Plan 2011-2030. Available online at https://caps.us.cardno.com/caps/nrhs/TesoroSavageVancouver/References/Chapter%204/4.12/4.1 2_City%20of%20Vancouver%202011.pdf.

- City of Vancouver. 2013. Community Task Force: Police Department Service Review. November 7. Available online at http://www.cityofvancouver.us/sites/default/files/fileattachments/city_manager039s_office/page/ 11807/police_service_delivery_analysis_final_report_november_2013.pdf.
- City of Vancouver. 2015a. 2015. City purchases Main Street property for fire station relocation. April 23. Available online at http://www.cityofvancouver.us/fire/page/city-purchases-main-street-property-fire-station-relocation.
- City of Vancouver. 2015b. Addressing the Future of Fire/EMS Services & Facilities in Vancouver. Website (http://www.cityofvancouver.us/citycouncil/page/addressing-future-fireems-services-facilities-vancouver) accessed March 23.
- City of Vancouver. 2015c. Vancouver's quick response boat. Website (http://www.cityofvancouver.us/fire/page/vancouvers-quick-response-boat) accessed March 23.
- City of Vancouver. 2015d. City seeks efficiencies with ambulance service charges. Website (http://www.cityofvancouver.us/fire/page/city-seeks-efficiencies-ambulance-service-changes) accessed February 12.
- City of Vancouver. 2015e. Garbage & Recycling. Website (http://www.cityofvancouver.us/publicworks/page/garbage-recycling) accessed February 13.
- Clark County. 2013a. Clark County Staff Report: October 29. Approve Modifications to the EMS District #2 Boundaries. Available online at http://www.clark.wa.gov/thegrid/documents/SR213-13.pdf.
- Clark County. 2013b. Recycling Collection. Available online at https://caps.us.cardno.com/caps/nrhs/TesoroSavageVancouver/References/Chapter%204/4.12/4.1 2_Clark%20County%202013.pdf.
- Clark County. 2015. Clark County Solid Waste Management Plan 2015, Chapter 10. Available online at http://www.co.clark.wa.us/recycle/documents/Chapter101.5.15.pdf.
- Clark Regional Emergency Services Agency (CRESA). 2015a. 9-1-1 Services. Website (http://cresa911.org/9-1-1-services/) accessed March 23.
- Clark Regional Emergency Services Agency (CRESA). 2015b. Emergency Management. Website (http://cresa911.org/9-1-1-services/) accessed March 23.
- Clary, Tyler. Water Engineering Program Manager, City of Vancouver. 2013a. Personal communication with Sam Adams, Berger ABAM, July 25, 2013. Available online at https://caps.us.cardno.com/caps/nrhs/TesoroSavageVancouver/References/Chapter%204/4.12/4.1 2_Clary%202013.pdf.
- Clary, Tyler. Water Engineering Program Manager, City of Vancouver. 2013b. Letter to Sam Adams, BergerABAM, regarding Tesoro Savage Petroleum Terminal Water Availability, dated August 20, 2013. Available online at https://caps.us.cardno.com/caps/nrhs/TesoroSavageVancouver/Application%20for%20Site%20C ertification/EFSEC%202013-01%20Appendix%20E%20-

%20Tesoro%20Water%20Availability%20Letter.pdf

- Clary, Tyler. Water Engineering Program Manager, City of Vancouver. 2015. Email to Sonia Bumpus, Energy Facility Siting Specialist, Energy Facility Site Evaluation Council, regarding water availability, dated July 15, 2015.
- Dick, Frank, Sewer and Wastewater Engineering Supervisor, City of Vancouver. 2015. Personal communication with Sonia Bumpus, Energy Facility Site Evaluation Council Siting Specialist, August 4.
- Eldred, Stephen, Division Chief for the Vancouver Fire Department. 2015a. Email to Sonia Bumpus, Energy Facility Site Evaluation Council Siting Specialist, and Katie Clifford, Cardno Project Manager/Regulatory Compliance Specialist, with EFSEC Questions file attached, April 28.
- Eldred, Stephen, Division Chief for the Vancouver Fire Department. 2015b. Email to Sonia Bumpus, Energy Facility Site Evaluation Council Siting Specialist, and Katie Clifford, Cardno Project Manager/Regulatory Compliance Specialist, with EFSEC Follow-Up Questions file attached, June 1.
- Federal Railroad Administration (FRA). 2006. Impact of Blocked Highway/Rail Grade Crossings on Emergency Response Services.
- Gray, J. 2015. PE, President, Enersource Engineering. Personal communication with Katherine Clifford, Project Manager/Regulatory Compliance Specialist, Cardno, May 7.
- International City/County Management Association (ICMA). 2013. Police Department Final Operations and Data Analysis Report: March. Vancouver, WA.
- Kalb, F.E. Director, Strategic Development, BNSF. 2014. Letter to Kelly Flint, Senior Vice President and General Counsel, Savage Companies, with information re: Proposed Vancouver Energy Project, August 28.
- Kennedy/Jenks Consultants. 2011. City of Vancouver, Washington General Sewer Plan Volume 1. April 5. Prepared for the City of Vancouver, WA.
- Kenning, Teri. 2015. Administrative Assistant, Vancouver Police Department. Personal communication with Katie Clifford, Project Manager/Regulatory Compliance Specialist, Cardno, February 13, 2015.
- Legacy Health. 2015. Legacy Emanuel Medical Center. Website (http://www.legacyhealth.org/locations/hospitals/legacy-emanuel-medical-center.aspx) accessed February 12.
- Molina, Joe, Fire Chief with the Vancouver Fire Department. 2015. Vancouver Fire Department 2014 Report on Service Levels. Memorandum to the Mayor and Council of the City of Vancouver, April 2.
- My Edmonds News. 2015. Mayor appoints task force to help advise railroad crossings alternatives study, July 29. Website (http://myedmondsnews.com/2015/07/mayor-appoints-task-force-to-helpadvise-railroad-crossings-alternatives-study/) accessed August 4, 2015.
- Oregon Health and Science University. 2015. Level 1 Trauma Center. Website (http://www.ohsu.edu/xd/health/services/trauma/about-us/level1.cfm) accessed February 12.

- Port of Vancouver (Port). 2012. Drinking Water Quality Report. Available online at https://caps.us.cardno.com/caps/nrhs/TesoroSavageVancouver/References/Chapter%204/4.12/4.1 2_Port%20of%20Vancouver%202012.pdf.
- Port of Vancouver (Port). 2013. Environmental Services. Available online at https://caps.us.cardno.com/caps/nrhs/TesoroSavageVancouver/References/Chapter%204/4.12/4.1 2_Port%20of%20Vancouver%202013.pdf.
- Region 10 Regional Response Team and Northwest Area Committee. 2015. Northwest Area Contingency Plan. January 1. Available online at http://www.rrt10nwac.com/Files/NWACP/2015/Northwest%20Area%20Contingency%20Plan% 202015.pdf.
- US Coast Guard (USCG). 2015. Coast Guard Sector Columbia River. Website (http://www.uscg.mil/d13/sectcolrvr/) accessed April 29, 2015; page last modified April 5, 2015.
- Vancouver Police Department (VPD). 2012. Vancouver Police Department 2012 Annual Report. Available online at http://www.cityofvancouver.us/sites/default/files/fileattachments/police_vpd/page/9591/2012_an ual_reort.pdf.
- Washington State Department of Health (WDOH). 2014. Washington State Department of Health Trauma Services. December. Available online at http://www.doh.wa.gov/Portals/1/Documents/Pubs/530101.pdf.
- Washington Surveying and Rating Bureau. 2014. Letter from the Washington Surveying and Rating Bureau regarding Clark County FD 5 and City of Vancouver, September 11.
- West Pierce Fire & Rescue. 2014. What is a Fire Department Public Protection Class Rating?" The Suburban Times, November 13. Website (http://thesubtimes.com/2014/11/13/what-is-a-fire-department-public-protection-class-rating/) accessed May 5, 2015.

SECTION 3.16, SOCIOECONOMICS

- BergerABAM. 2014. Tesoro Savage Vancouver Energy. Distribution Facility Preliminary Draft EIS. July.
- Bureau of Economic Analysis. 2014. Regional Economic Accounts, Total full-time and part-time employment by NAICS industry for 2012. Website (http://www.bea.gov/regional/) accessed January 28, 2015.
- Bureau of Labor Statistics. 2014. Labor Force Data by County. 2013 Annual Averages. Website (http://www.bls.gov/lau/) accessed January 28, 2015.
- Council on Environmental Equality (CEQ). 1997. Environmental Justice: Guidance under the National Environmental Policy Act. December. Website (http://www.epa.gov/environmentaljustice/resources/policy/ej_guidance_nepa_ceq1297.pdf) accessed January 21, 2015.

Davis, Daniel M. 2008. Multistate Guide to Sales and Use Tax: Construction, 2008. Chicago, IL: CCH.

- Federal Railroad Administration (FRA). 2015. Office of Safety Analysis, Crossing History. February. Website (http://safetydata.fra.dot.gov/officeofsafety/publicsite/downloaddbf.aspx?itemno=7.02) accessed February 5, 2015.
- Futch, Michael. 2011. Examining the Spatial Distribution of Externalities: Freight Rail Track and Home Values in Los Angeles. November 11. Website (http://www.coaltrainfacts.org/docs/Freight-Rail-Traffic-and-Home-Values-in-LA.pdf) accessed February 13, 2015.
- Greater Buffalo-Niagara Regional Transportation Council. 2010. Niagara Frontier Urban Area Freight Transportation Study: Technical Memorandum No. 5 Economic Impact Analysis. Prepared by Wilbur Smith Associates. June. Website (http://www.gbnrtc.org/files/6213/2769/5475/Final_Report.pdf) accessed February 19, 2015.
- Oregon Department of Revenue. 2015. Personal Income Tax. Website (http://www.oregon.gov/dor/PERTAX/Pages/faq-qa_forms.aspx) accessed February 10, 2015.
- Oregon Office of Economic Analysis. 2013. Long-Term Oregon State's County Population Forecast, 2010–2050. Website (http://www.oregon.gov/DAS/oea/Pages/demographic.aspx) accessed January 30, 2015.
- Port of Vancouver (Port). 2011. The Local and Regional Economic Impacts of the Vancouver Harbor. Prepared by Martin Associates. August 10. Website (http://www.portvanusa.com/assets/POVMARINEIMPACTS2010.pdf) accessed April 1, 2015.
- Schatzki, T. and B. Strombom. 2014a. Assessment of Vancouver Energy Socioeconomic Impacts: Primary Economic Impacts. July.
- Schatzki, T., and B. Strombom. 2014b. Assessment of Vancouver Energy Socioeconomic Impacts: Secondary Economic Impacts. September.
- Simons, R.A., and A. El Jaouhari, 2004. The Effect of Freight Railroad Tracks and Train Activity on Residential Property Values. *The Appraisal Journal*. Website (http://www.rasimons.com/documents/articles/the-effect-of-freight-railroad-tracks-and-trainactivity.pdf) accessed February 13, 2015.
- Texas Department of Transportation. 2007. Houston Region Freight Study. Prepared by HNTB. Available online at https://ftp.dot.state.tx.us/pub/txdot-info/rail/freight/houston_study.pdf.
- The I-5 Transportation and Trade Partnership. 2003. I-5 Rail Capacity Study. Prepared by HDR. February. Website (http://www.oregon.gov/odot/rail/docs/publications/2003_i-5_rail_capacity_study/i-5_rail_capacity_chapters_1-5.pdf) accessed February 19, 2015.
- US Census Bureau. 1990 Census. Website (http://www.census.gov/main/www/cen1990.html) accessed January 26, 2015.
- US Census Bureau. 2000 Census. Website (http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml) accessed January 26, 2015.
- US Census Bureau. 2010 Census. Website (http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml) accessed January 26, 2015.

- US Census Bureau. 2013a. ACS 2008–2012 5-Year Data, Table C17002: Ratio of Income to Poverty Level in the Past 12 Months. Website (http://www.census.gov/acs/www/data_documentation/summary_file/) accessed March 11, 2015.
- US Census Bureau. 2013b. Table DP05: ACS Demographic and Housing Estimates 2008–2012 5-Year Estimates. Website (http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml) accessed January 27, 2015.
- US Census Bureau. 2013c. Table DP03 Select Economic Characteristics 2008–2012 5-Year Estimates. Website (http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml) accessed January 27, 2015.
- US Census Bureau. 2014a. Decennial Management Division Glossary. Website (https://www.census.gov/dmd/www/glossary.html) accessed October 7, 2014.
- US Census Bureau. 2014b. Table DP04, 2009–2013 Selected Housing Characteristics. Website (http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml) accessed January 26, 2015.
- US Census Bureau. 2014c. Table PEPANNRES: Annual Estimates of the Resident Population April 1, 2010 to July 1, 2013.
- US Census Bureau. 2015. Definitions. Website (http://quickfacts.census.gov/qfd/meta/long_HSG495210.htm) accessed February 4, 2015.
- US Department of Transportation (USDOT). 2011. Revised Departmental Guidance on Valuation of Travel Time in Economic Analysis. September 28. Website (http://www.dot.gov/sites/dot.dev/files/docs/vot_guidance_092811c.pdf) accessed February 5, 2015.
- US Environmental Protection Agency (EPA). 1998a. Final Guidance for Incorporating Environmental Justice Concerns in EPA's NEPA Compliance Analysis. April. Website (http://www.epa.gov/environmentaljustice/resources/policy/ej_guidance_nepa_epa0498.pdf) accessed January 22, 2015.
- US Environmental Protection Agency (EPA). 1998b. National Guidance for Conducting Environmental Justice Analysis, Peer Review Version. October 1.
- Washington State Department of Ecology (Ecology). 2014. Vessel Entries and Transits for Washington Waters, VEAT 2013. Ecology Publication 14-08-004. March.
- Washington Office of Financial Management. 2007. Washington State Growth Management Population Projections for Counties: 2000 to 2030, 2007 County Projections. Website (http://www.ofm.wa.gov/pop/gma/projections07.asp) accessed January 26, 2015.
- Washington State Department of Ecology (Ecology). 2015. Vessel Entry and Transit (VEAT) Counts for Washington Waters by Calendar Year. Website (http://www.ecy.wa.gov/programs/spills/publications/publications.htm) accessed February 3, 2015.
- Washington State Department of Revenue. 2013. Property Tax Statistics 2013. September. Website (http://dor.wa.gov/docs/reports/2013/Property_Tax_Statistics_2013/PropTx2013.pdf) accessed February 4, 2015.

- Washington State Department of Revenue. 2014. Summary of Washington State Tax Collections. Website (http://dor.wa.gov/Docs/Reports/2013/Tax_Statistics_2013/Table01.pdf) accessed February 3, 2015.
- Washington State Department of Revenue. 2015a. Local Sales and Use Tax Rates. Website (http://dor.wa.gov/Docs/forms/ExcsTx/LocSalUseTx/LocalSlsUseFlyer_Quarterly.pdf) accessed February 3, 2015.
- Washington State Department of Revenue. 2015b. Business & Occupation Tax. Website (http://dor.wa.gov/content/FindTaxesAndRates/BAndOTax/#rate) accessed February 3, 2015.
- Washington State Department of Revenue. 2015c. Business & Occupation Tax Classification. Website (http://dor.wa.gov/Content/FindTaxesAndRates/BAndOTax/BandOrates.aspx) accessed February 3, 2015.
- Washington Research Council. 2010. B&O Tax Pyramiding in Petroleum Distribution. January 18. Website (https://researchcouncil.files.wordpress.com/2013/08/botaxpyramidinginpetrodist.pdf) accessed February 13, 2015.
- Washington State Department of Transportation (WSDOT). 2014. Washington State Rail Plan: Integrated Freight and Passenger Rail Plan 2013–2035. March. Website (http://www.wsdot.wa.gov/NR/rdonlyres/F67D73E5-2F2D-40F2-9795-736131D98106/0/StateRailPlanFinal201403.pdf) accessed January 30, 2015.

WorleyParsons. 2014. Vessel Traffic Risk Assessment Traffic Impact Analysis. September 4.

CHAPTER 4, POTENTIAL ACCIDENTS

- American Fuel & Petrochemical Manufacturers. 2014. A Survey of Bakken Crude Oil Characteristics Assembled for the US Department of Transportation by Dangerous Goods Transport Consulting, Inc.
- American Petroleum Institute (API). 1999. Fate of Spilled Oil in Marine Waters: Where Does it Go?What Does It Do? How Do Dispersants Affect It? An information booklet for decision-makers.API publication 4691.
- American Petroleum Institute (API). 2004. In-Situ Burning: The Fate of Burned Oil. Regulatory and Scientific Affairs Department. API publication 4735.
- American Petroleum Institute (API). 2008. Specification for Line Pipe. Available online at https://law.resource.org/pub/us/cfr/ibr/002/api.51.2004.pdf. Accessed August 9, 2015.
- American Petroleum Institute (API). 2011. High Production Volume (HPV) Chemical Challenge Program, Crude Oil Category, Category Assessment Document. Website (http://www.epa.gov/hpv/pubs/summaries/crdoilct/c14858ca.pdf) accessed June 10, 2015.
- American Petroleum Institute (API). 2013. Diluted Bitumen. Website (http://www.api.org/~/media/files/oil-and-natural-gas/oil_sands/diluted-bitumen.pdf) accessed July 27, 2015.

- Andrews, Anthony. 2014. Crude Oil Properties Relevant to Rail Transport Safety: In Brief. Congressional Research Service.
- Archaeological Investigations Northwest, Inc. (AINW). 2015. Vancouver Energy Cultural Resources Inadvertent Discovery Plan. Portland, OR. Prepared for Tesoro Savage Petroleum Terminal LLC, Vancouver. On file, Savage Companies.
- American Speech-Language-Hearing Association (ASHA). 2014. Auditory Effects of Blast Exposure: Community Outreach Following an Industrial Explosion. Website (http://www.asha.org/aud/Articles/Auditory-Effects-of-Blast-Exposure/) accessed July 31, 2015.
- Applied Science Associates, Inc. (ASA). 2013. Deepwater Horizon Gulf of Mexico Oil Spill: Potential Impacts. Website (http://www.asascience.com/news/Deepwater/spillImpacts.shtml) accessed September 16, 2013.
- Australian Maritime Safety Authority (AMSA). 2011. The Effects of Oil on Wildlife. Website (http://www.amsa.gov.au/environment/maritime-environmental-emergencies/national-plan/general-information/oiled-wildlife/marine-life/index.asp) accessed on May 27, 2011.
- Barron, M. G., T. Podrabsky, S. Ogle and R. W. Ricker. 1999. Are aromatic hydrocarbons the primary determinant of petroleum toxicity to aquatic organisms? Aquatic Toxicology 46(3-4): 253-268.
- Bates, J.D., R.N. Sharp, and K.W. Davies. 2013. Sagebrush steppe recovery after fire varies by development phase of *Juniperus occidentalis* woodland. *International Journal of Wildland Fire*. Website (http://dx.doi.org/10.1071/WF12206) accessed May 20, 2015.

Battelle Memorial Institute. 1988. Synthesis of Effects of Oil on Marine Mammals. 314 pp.

- Bay, C. 1997. Effects of experimental spills of crude and diesel oil on arctic vegetation. A long-term study on high arctic terrestrial plant communities in Jameson Land, central East Greenland. NERI Technical Report 205. National Environmental Research Institute, Denmark. Website (http://www.dmu.dk) accessed August 13, 2014.
- BergerABAM. 2014. Application for Site Certification and Supplements. February.
- Billiard, S. M., J. N. Meyer, D. M. Wassenberg, P. V. Hodson, and R. T. Di Giulio. 2008. Nonadditive effects of PAHs on early vertebrate development: Mechanisms and implications for risk assessment. Toxicological Sciences 105 (1):5-23.
- Black, Thomas. 2015. BNSF Pressures Congress to Extend 2015 Rail Safety Deadline. Bloomberg. Website (http://www.bloomberg.com/news/articles/2015-09-09/buffett-s-bnsf-pressures-congress-to-extend-rail-safety-deadline) accessed November 5, 2015.
- Borrell, B. 2010. Oil Spill Threatens History. Archaeology 63(5): September/October. Website (http://archive.archaeology.org/1009/trenches/oilspill.html) accessed August 10, 2015.
- Brannon, E.L., T.P. Quinn, R.P. Whitman, A.E. Nevissi, R.E. Nakatani, and C.D. McAuliffe. 1986. Homing of adult Chinook salmon after brief exposure to whole and dispersed crude oil. *Transactions of the American Fisheries Society* 115:823–827.

- Burlington Northern Santa Fe (BNSF) Railway. 2013a. Port of Vancouver. BNSF Railway Hazardous Material Transportation Preparedness and Response. June 4.
- Burlington Northern Santa Fe (BNSF) Railway. 2013b. Fallbridge Sub Oil Spill Control Points (CCPs). April 2013.
- Burlington Northern Santa Fe (BNSF) Railway. 2014. Hazardous Material Transportation. Website (http://www.ndaco.org/image/cache/BNSF_Presentation.pdf) accessed June 2, 2015.
- Burlington Northern Santa Fe (BNSF) Railway. 2015. Wenatchee presentation on Hazmat response process. Website (http://www.rrt10nwac.com/files/files/BNSF%20Presentation%20NWAC%20Wenatchee.pdf) accessed June 6, 2015.
- Burns, D.M.B., J.A. Olin, S. Woltmann, P.C. Stouffer, and S.S. Taylor. 2014. Effects of oil on terrestrial vertebrates: Predicting impacts of the Macondo blowout. *BioScience* 64(9):820-828.
- Carls, M.G., S.D. Rice, and J.E. Hose. 1999. Sensitivity of fish embryos to weathered crude oil: Part I. Low-level exposure during incubation causes malformations, genetic damage, and mortality in larval Pacific herring (*Clupea pallasi*). Environmental Toxicology and Chemistry 18 (3):481-493.
- Centers for Disease Control and Prevention I (CDC). 1994. International Chemical Safety Cards (ICSC). Website (http://www.cdc.gov/niosh/ipcsneng/neng0165.html) accessed June 10, 2015.
- Centers for Disease Control and Prevention (CDC). 2015. NIOSH Pocket Guide to Chemical Hazards. Website (http://www.cdc.gov/niosh/npg/npgd0337.html) accessed June 10, 2015.
- Change, S. E., J. Stone, K. Demes, and M. Piscitelli. 2014. Consequences of Oil Spills: A Review and Framework for Information Planning. *Ecology and Society* 19(2): 6.
- City of Vancouver. 2015. Vancouver's quick response boat. Website (http://www.cityofvancouver.us/fire/page/vancouvers-quick-response-boat) accessed March 23.
- Clark County LEPC. 2014. Clark County Hazardous Materials Emergency Response Plan, Emergency Support Function 10 Hazardous Materials. January. Available online at http://cresa911.org/wp-content/uploads/2014/06/CCHazMat_ERP14.pdf access August 10, 2015.
- Clark, J.R., G.E. Bragin, E.J. Febbo, and D.J. Letinski. 2001. Toxicity of physically and chemically dispersed oils under continuous and environmentally realistic exposure conditions: Applicability to dispersant use decision in spill response planning. Proceedings of the 2001 International Oil Spill Conference, 1249-1255.
- Clean Rivers Cooperative (CRC). 2015. Clean Rivers Cooperative, Inc. Our Equipment and Comprehensive Services. Website (http://www.cleanriverscooperative.com/equipment-and-services) accessed June 26, 2015.
- Collins, C.M., C.H. Racine, and M.E. Walsh. 1994. The physical, chemical, and biological effects of crude oil spills after 15 years on a black spruce forest, Interior Alaska. *Arctic* 47(2):164-175.

- Columbia Basin Ground Water Management Area (CBGWMA) 2012. Columbia Basin Ground Water Management Area Municipal Groundwater Supply Review: Current Conditions and Predicted Future Conditions Summary Report. Prepared by the Columbia Basin Ground Water Management Area, GSI Water Solutions, Inc, and SS Papadopoulos & Associates, Inc. for the Office of Columbia River, Washington State Department of Ecology and Washington State Department of Health. October 2012.
- Columbia Memorial Hospital. 2015. About Us: Overview. Website (http://www.columbiamemorial.org/about-overview.aspx) accessed August 10, 2015.
- DeGraeve, G.M., R.G. Elder, D.C. Woods, and H.L. Bergman. 1982. Effects of naphthalene and benzene on fathead minnows and rainbow trout Archives of Environmental Contamination and Toxicology 11 (4):487-490.
- Dicks, B. 1998. The Environmental Impacts of Marine Oil Spills Effects, Recovery and Compensation. Paper presented at the International Seminar on Tanker Safety, Pollution Prevention, Spill Response and Compensation, November 6, 1998, Rio de Janeiro, Brazil.
- Earth Gauge. 2011. Gulf Oil Spill Series: Effects on Invertebrates. Website (http://www.earthgauge.net/wp-content/EG_Gulf_Invertebrates.pdf) accessed May 27, 2011.
- Eldred, Stephen, Division Chief, Vancouver Fire Department. 2015. Personal communication with Sonia Bumpus, Energy Facility Site Evaluation Council Siting Specialist, and Katie Clifford, Cardno Project Manager/Regulatory Compliance Specialist, April 28.
- Environment Canada. 2013. Federal Government Technical Report: Properties, Composition, and Marine Spill Behaviour, Fate, and Transport of Two Diluted Bitumen Products from the Canadian Oil Sands. Prepared by Environment Canada Emergencies Science and Technology, Fisheries and Oceans Canada Centre for Offshore Oil, Gas, and Energy Research, and Natural Resources Canada CanmetENERGY. November 30.
- Federal Railroad Administration (FRA). 2014. Railroad Safety. Website (https://www.fra.dot.gov/Page/P0010) accessed on December 29, 2014.
- Federal Railroad Administration (FRA). 2015a. Emergency Order DOT-OST-2014-0067. Website (http://www.dot.gov/briefing-room/emergency-order) accessed on April 28, 2015.
- Federal Railroad Administration (FRA). 2015b. Hazardous Materials: Enhanced Tank Car Standards and Operational Controls for High Hazard Flammable Trains. Website (http://www.dot.gov/sites/dot.gov/files/docs/final-rule-flammable-liquids-by-rail_0.pdf) accessed May 7, 2015.
- Federal Railroad Administration (FRA). 2015c. Positive Train Control (PTC) Overview (Railroad Safety). Website (https://www.fra.dot.gov/Page/P0621) accessed November 5, 2015.
- Fingas, M. 2005. A Review of the Emulsification Tendencies and Long-term Petroleum Trends of Alaska North Slope (ANS) Oils and the "White Paper on Emulsification of ANS Crude Oil Spilled in Valdez". Prepared for Prince William Sound Regional Citizens' Advisory Council (PWSRCAC) Anchorage, Alaska.

- Fingas, M. F., 1997. Studies on the evaporation of crude oil and petroleum products: I. the relationship between evaporation rate and time. Journal of Hazardous Material 56, 227-236.
- Firefighter Life Safety Research Center, University of Illinois at Urbana-Champaign Fire Service Institute. (2008). Firefighter Fatalities and Injuries: The Role of Heat Stress and PPE. Website (https://www.fsi.illinois.edu/documents/research/FFLSRC_FinalReport.pdf) accessed August 10, 2015.
- Fitzgerald, S.A. 2005. Fire Ecology of Ponderosa Pine and the Rebuilding of Fire-Resilient Ponderosa Pine Ecosystems. USDA Forest Service Gen. Tech. Rep. PSW-GTR-198.
- Fucik, K., K. Carr and B. Balcom. 1994. Dispersed Oil Toxicity Tests with Biological Species Indigenous to the Gulf of Mexico. I. Prepared by Continental Shelf Associates, for the US Department of the Interior, Minerals Management Service, Gulf of Mexico OCS Region. New Orleans, LA, OCS Study MMS 94-0021: 97 + appendices.
- Hansen, J.L., E.D. Benson, and D.A Hagen, 2006. Environmental Hazards and Residential Property Values: Evidence from a Major Pipeline Event. *Land Economics* 82 (4): 529-541.
- Harayama, S., H. Kishira, Y. Kasai and K. Shutsubo. 1999. Petroleum Biodegradation in Marine Environments. J. Molec. Microbiol. Biotechnol. 1(1): 63-70.
- Heitmuller, P. T., T. A. Hollister, and P. R. Parrish. 1981. Acute toxicity of 54 industrial chemicals to sheepshead minnows (*Cyprinodon variegatus*) Bulletin of Environmental Contamination and Toxicology 27 (5):596-604.
- Henkel, J.R., B.J. Sigel, and C.M. Taylor. 2012. Large-scale impacts of the Deepwater Horizon oil spill: Can local disturbance affect distant ecosystems through migratory shorebirds? *BioScience* 62(7):676-685.
- Holcombe, G. W., G. L. Phipps, and J. T. Fiandt. 1983. Toxicity of selected priority pollutants to various aquatic organisms Ecotoxicology and Environmental Safety 7 (4):400-409.
- Holt, S. 1987. The effects of crude and diesel oil spills on plant communities at Mesters Vig. Northeast Greenland. *Arctic and Alpine Research* 19(4):490-497.
- Hose, J.E., M.D. McGurk, G.D. Marty, D.E. Hinton, E.D. Brown, and T.T. Baker. 1996. Sublethal effects of the Exxon Valdez oil spill on herring embryos and larvae: morphological, cytogenetic, and histopathological assessments, 1989-1991. Canadian Journal of Fisheries and Aquatic Sciences 53:2355-2365.
- Hutchinson, T.C., and W. Freedman. 1978. Effects of experimental crude oil spills on subarctic boreal forest vegetation near Norman Wells, NWT. Canada. *Canadian Journal of Botany* 56(19):2424-2433.
- International City/County Management Association (ICMA). 2013. Police Department Final Operations and Data Analysis Report: March. Vancouver, WA.
- International Tanker Owners Pollution Federation Limited (ITOPF). 2011. Effects of Oil Pollution on the Marine Environment. Technical Information Paper.

- Jackson, T.O. 2001. The Effects of Environmental Contamination on Real Estate: A Literature Review. Journal of Real Estate Literature 9 (2).
- Larsen, E. M., and J. T. Morgan. 1998. Management recommendations for Washington's priority habitats: Oregon white oak woodlands. Washington Department of Fish and Wildlife, Olympia.
- Marine Research Specialists. 2002. Potential Impacts Associated with the Cleanup of a Marine Oil Spill. Prepared for Arthur D. Little, Inc.
- Maritime Fire & Safety Association (MFSA). 2015a. About Us. Website (http://www.mfsa.com/about-us) accessed January 12, 2015.
- Marks, R. 2015. Day after derailment, cleanup and restoration begin. West Virginia Gazette. Tuesday, February 17. Website (http://www.wvgazette.com/article/20150217/GZ01/150219401) accessed June 22, 2015.
- Matkin, C.O., E.L. Saulitis, G.M. Ellis, P. Olesiuk, and S.D. Rice. 2008. Ongoing population-level effects on killer whales *Orcinus orca* following the Exxon *Valdez* oil spill in Prince William Sound, Alaska. *Marine Ecology Progress Series* 356: 269-281.
- McGrath, J. A., and D. M. Di Toro. 2009. Validation of the target lipid model for toxicity assessment of residual petroleum constituents: monocyclic and polycyclic aromatic hydrocarbons. Environ Toxicol Chem 28 (6):1130-48.
- McKendrick, J.D. 1999. Arctic tundra recovery from crude oil after 24 years, Prudhoe Bay. *Agroborealis* 31(1): 28-35.
- Mendelssohn, I.A., G.L. Anderson, D.M. Baltz, R.H. Caffey, K.R. Carman, J.W. Fleeger, S.B. Joye, Q. Lin, E. Maltby, E.B. Overton, and L.P. Rozas. 2012. Oil impacts on coastal wetlands: implications for the Mississippi river delta ecosystem after the Deepwater Horizon oil spill. *BioScience* 62(6): 562-574.
- Moreau, C. J., P. L. Klerks, and C. N. Haas. 1999. Interaction between phenanthrene and zinc in their toxicity to the sheepshead minnow (Cyprinodon variegatus). Archives of Environmental Contamination and Toxicology 37 (2):251-257.
- Moles, A., and S.D. Rice. 1983. Effects of crude oil and naphthalene on growth, caloric content, and fat content of pink salmon juveniles in seawater. *Transactions of the American Fisheries Society* 112 (2):205-211.
- Morrow, J.E. 1974. Effects of Crude Oil and Some of Its Components on Young Coho and Sockeye Salmon. Ecological Research Series EPA-660/3-73-018. US Environmental Protection Agency, Washington, DC.
- Mosbech, A, ed. 2002. Potential Environmental impacts of oil spills in Greenland. An assessment of information status and research needs. National Environmental Research Institute, Denmark. NERI Technical Report No. 415.
- National Academy of Sciences. 2010. Oil Spill Dispersants: Efficacy and Effects. Website (http://dels.nas.edu/resources/static-assets/materials-based-on-reports/special-products/oil_spill_dispersants_key_findings_final.pdf) accessed August 10, 2015.

National Institute of Standards and Technology (NIST). 1997. Smoke Plume Trajectory from In Situ Burning of Crude Oil in Alaska - Field Experiments and Modeling of Complex Terrain. Website (https://dec.alaska.gov/spar/perp/r_d/proj_02a.pdf), accessed February 16, 2015.

National Marine Fisheries Service (NMFS). 2013. Impacts of Oil on Marine Mammals and Sea Turtles.

- National Oceanic and Atmospheric Administration (NOAA). 1994. Options for Minimizing Environmental Impacts of Freshwater Spill Response. NOAA Hazardous Materials Response and Assessment Division, and American Petroleum Institute. Website (http://www.michigan.gov/documents/deq/deq-wb-wws-FreshwaterResponse_NOAA102706_265069_7.pdf) accessed May 22, 2015.
- National Oceanic and Atmospheric Administration (NOAA). 1995. Physical Processes Affecting the Movement and Spreading of Oils in Inland Waters. HAZMAT Report 95-7. Website (http://response.restoration.noaa.gov/sites/default/files/inland.pdf) accessed September, 15 2015.
- National Oceanic and Atmospheric Administration (NOAA). 2010a. Characteristic Coastal Habitats. Choosing Spill Response Alternatives. Office of Response and Restoration.
- National Oceanic and Atmospheric Administration (NOAA). 2011. Oil and Chemical Spills FAQs. Website (http://response.restoration.noaa.gov/faqs) accessed May 25, 2015.
- National Oceanic and Atmospheric Administration (NOAA). 2014. Final Environmental Impact Statement to Inform Columbia River Basin Hatchery Operations and the Funding of Mitchell Act Hatchery Programs, Website (http://www.westcoast.fisheries.noaa.gov/publications/nepa/hatchery/mitchell_act_hatcheries_fei s_final.pdf) accessed February 27, 2015.
- National Oceanic and Atmospheric Administration (NOAA). 2015a. Oil Types. Website (http://response.restoration.noaa.gov/oil-and-chemical-spills/oil-spills/oil-types.html) accessed September 28, 2015.
- National Oceanic and Atmospheric Administration (NOAA). 2015b. Natural Resource Damage Assessment. NOAA's Damage Assessment Remediation and Restoration Program. Website (https://www.darrp.noaa.gov/getting-restoration/natural-resource-damage-assessment) accessed October 10, 2015.
- National Oceanic and Atmospheric Administration (NOAA). 2015c. Who Pays for Oil Spills? NOAA Office of Response and Restoration. Website (http://response.restoration.noaa.gov/about/media/who-pays-oil-spills.html) accessed November 11, 2015.
- Neff J.M. 1990. Composition and fate of petroleum and spill-treating agents in the marine environment. In: Geraci JR, editor; St Aubin DJ, editor. Sea Mammals and Oil: Confronting the Risks. San Diego, CA, USA: Academic Press; 1990. pp. 1–33.
- Neff, J.M. 1991. Long-Term Trends in the Concentrations of Polycyclic Aromatic Hydrocarbons in the Water Column of Prince William Sound and the Western Gulf of Alaska Following the Exxon Valdez Oil Spill. In Proceedings of the Fourteenth Annual Arctic and Marine Oilspill Program Technical Seminar, Vancouver, BC, Canada, June 12-14, 1991, pp. 27-38 Environment Canada, Ottawa, Ontario.

- North Dakota Petroleum Council. 2014. The North Dakota Petroleum Council Study on Bakken Crude Properties - Bakken Crude Characterization Task Force. Prepared by Turner, Mason & Company, Dallas, TX.
- Northwest Area Committee. (NWAC). 2015a. Middle Columbia River Geographic Response Plan. Draft. April. Website (http://www.ecy.wa.gov/programs/spills/preparedness/GRP/ColumbiaRiver/ColumbiaRiver.htm) accessed May 27, 2015.
- Northwest Area Committee. (NWAC). 2015b. Lower Columbia River Geographic Response Plan. Draft. May. Website (http://www.ecy.wa.gov/programs/spills/preparedness/GRP/ColumbiaRiver/ColumbiaRiver.htm) accessed May 27, 2015.
- Office of Fire Prevention & Control. 2014. Strategic and Tactical Guidance for Rail Incidents Involving Crude Oil. NYS Division of Homeland Security and Emergency Services. Website http://www.dhses.ny.gov/ofpc/alertsbulletins/information/documents/2014/crude-oil.pdf
- Oregon Health and Science University. 2015 Who We Are. Available online at http://www.ohsu.edu/xd/health/who-we-are/.
- Oregon Tourism Commission. 2014, Oregon Travel Impacts 1991-2013p, April. Website (http://www.deanrunyan.com/doc_library/ORImp.pdf) accessed April 20, 2015.
- Overstreet, R. and J.A. Galt. 1995. Physical processes affecting the movement and spreading of oils in inland waters. NOAA Hazardous Materials Response and Assessment Division. Seattle, WA. HAZMAT Report 95-7.
- Pacific Biodiversity Institute. 2009. Fire Ecology. Website (http://www.pacificbio.org/initiatives/fire/fire_ecology.html) accessed August 10, 2015.
- PeaceHealth. No date. St. John Medical center. Available online at http://www.peacehealth.org/Documents/14-SYST-246_fact-sheets-at-a-glance-8x11-PHSJ.pdf.
- Perry, D.A., P.F. Hessburg, C.N. Skinner, T.A. Spies, S.L. Stephens, A.H. Taylor, J.F. Franklin, B. McComb, and G. Riegel. 2011. The ecology of mixed severity fire regimes in Washington, Oregon, and Northern California. *Forest Ecology and Management* 262 (2011):703-717.
- Pipeline and Hazardous Materials Safety Administration (PHMSA). 2014a. US Department of Transportation Call to Action: Transporting Flammable Liquids by Rail. Advance Notice of Proposed Rulemaking: Hazardous Materials: Rail Petitions and Recommendations to Improve the Safety of Railroad Tank Car Transportation (RRR), 78 FR 54849 (September 6, 1913). Website (http://www.phmsa.dot.gov/hazmat/osd/calltoactionsummry) accessed December 29, 2014.
- Pipeline and Hazardous Materials Safety Administration (PHMSA). 2014b. Operation Safe Delivery Update. US Department of Transportation. Website (http://www.phmsa.dot.gov/pv_obj_cache/pv_obj_id_8A422ABDC16B72E5F166FE34048CCC BFED3B0500/filename/07_23_14_Operation_Safe_Delivery_Report_final_clean.pdf) accessed February 18, 2015.

- Pipeline and Hazardous Materials Safety Administration (PHMSA). 2014c. Commodity Preparedness and Incident Management Reference Sheet. Website (http://www.phmsa.dot.gov/pv_obj_cache/pv_obj_id_D49E5CEF1AC2AB4A887FDA7364FDD 00E87BE0200/filename/Petroleum_Crude_Oil_CERG.pdf) accessed July 31, 2015.
- POLARIS Applied Sciences, Inc. 2013. A Comparison of the Properties of Diluted Bitumen Crudes with Other Oils.
- Pollino, C. A., and D. A. Holdway. 2002. Toxicity testing of crude oil and related compounds using early life stages of the crimson-spotted rainbowfish (*Melanotaenia fluviatilis*). Ecotoxicology and Environmental Safety 52 (3):180-189.
- Purdy, J.E. 1989. The effects of brief exposure to aromatic hydrocarbons on feeding and avoidance behaviour in coho salmon, *Oncorhynchus kisutch. Journal of Fish Biology* 34:621–629.
- Regional 10 Response Team and Northwest Area Committee (RRT and NWAC). 2013. Northwest Area Contingency Plan 2012–2013. Available online at http://www.rrt10nwac.com/.
- Region 10 Regional Response and Northwest Area Committee (RRT and NWAC). 2015a. Sector Columbia River's Marine Firefighting Contingency Plan. Change 16. January 1, 2015.
- Region 10 Regional Response and Northwest Area Committee (RRT and NWAC). 2015b. Northwest Area Contingency Plan 2015. Website (http://www.rrt10nwac.com/Files/NWACP/2015/Northwest%20Area%20Contingency%20Plan% 202015.pdf) accessed August 10, 2015.
- Sall, Jessica. Fish Communications Coordinator, Oregon Department of Fish and Wildlife. 2015. Personal communication with Lee Elder, Project Economist, Cardno, February 27 and April 13, 2015.
- Sandia National Laboratories (Sandia). 2015. Literature Survey of Crude Oil Properties Relevant to Handling and Fire Safety in Transport. SAND2015-1823. Prepared for the DOE/DOT Tight Crude Oil Flammability and Transportation Spill Safety Project. March 2015.
- Sheldon, D., T. Hruby, P. Johnson, K. Harper, A. McMillan, T. Granger, S. Stanley, and E. Stockdale. 2005. March. Wetlands in Washington State - Volume 1: A Synthesis of the Science. Publication #05-06-006. Washington State Department of Ecology, Olympia, WA.
- Sigler, M., and L. Leibovitz. 1982. Acute toxicity of oil and bilge cleaners to larval American oysters (*Crassostrea virginica*) Bulletin of Environmental Contamination and Toxicology 29 (2):137-145.
- Soundside Marinelife Rescue Center. (SMRC). 2015. Why Does Washington State need a Marine Animal Rescue Facility. Website (http://soundsidemarinelife.org/about-us/rehabilitation-information) accessed July 31, 2015.
- Spehar, R. L., S. Poucher, L. T. Brooke, D. J. Hansen, D. Champlin, and D. A. Cox. 1999. Comparative toxicity of fluoranthene to freshwater and saltwater species under fluorescent and ultraviolet light. Archives of Environmental Contamination and Toxicology 37 (4):496-502.
- Tesoro Corp. 2015. Los Angeles Refinery. Website (http://tsocorp.com/refining/los-angelescalif/) accessed August 3, 2015.

- Troisi, G.M., S. Bexton, and I. Robinson. 2006. Polyaromatic hydrocarbon and PAH metabolite burdens in oiled common guillemots (*Uria aalge*) stranded on the East Coast of England (2001-2002). *Environmental Science and Technology* 40: 7938-7943.
- Tsaprailis. 2014. Properties of Dilbit and Conventional Crude Oils. Website (http://www.aiees.ca/media/10927/properties_of_dilbit_and_conventional_crude_oils_-_aitf_-__final_report_revised.pdf) accessed June 10, 2015.
- UK Marine. 2013. Oil and Gas: Exploration, Production and Transport. Species Areas of Conservation. Website (http://www.ukmarinesac.org.uk/communities/intersand-mud/ism5_7.htm) accessed October 1, 2014.
- United Nations Environment Programme. 2011. Effects of Oil Pollution on Marine Wildlife. Website (http://oils.gpa.unep.org/facts/wildlife.htm) accessed May 27, 2015.
- US Coast Guard (USCG). 2006. Oil Spill Liability Trust Fund (OSLTF) Funding for Oil Spills. Website (https://www.uscg.mil/npfc/docs/PDFs/OSLTF_Funding_for_Oil_Spills.pdf) accessed August 10, 2015.
- US Department of Labor, Occupational Safety & Health Administration (OSHA). 2015a. Hydrogensulfide. Website (https://www.osha.gov/SLTC/hydrogensulfide/hazards.html) accessed June 10, 2015.
- US Department of Transportation (USDOT). 2015. Chronology of DOT Actions on Safe Transportation of Flammable Liquids by Rail. Website (http://www.dot.gov/mission/safety/rail-chronology) accessed on May 7, 2015.
- US Environmental Protection Agency (EPA). 1997. Catastrophic Failure of Storage Tanks. EPA 550-F-97-002b. May. Office of Solid Waste and Emergency Response, Chemical Emergency Preparedness and Prevention Office.
- US Environmental Protection Agency (EPA). 1999. Understanding Oil Spills and Oil Spill Response: Chapter 7 Responding to Oil Spills: The National Response System. EPA 540-K-99-007. December. Office of Emergency and Remedial Response, Washington, DC.
- US Environmental Protection Agency (EPA). 2013. Website (http://www.epa.gov/airtoxics/pollsour.html) accessed February 12, 2015.
- US Environmental Protection Agency (EPA). 2014a. Shoreline Cleanup of Oil Spills. Chapter 4 in *Understanding Oil Spills and Oil Spill Response*. Office of Emergency and Remedial Response. EPA 540-K-99-007. Available online at http://www.epa.gov/oem/docs/oil/edu/oilspill_book/chap4.pdf.
- US Environmental Protection Agency (EPA). 2014c. Acid Rain. Website (http://www.epa.gov/acidrain/) accessed February 18, 2015.
- US Environmental Protection Agency (EPA). 2015a. Oil Spills. Website (http://www.epa.gov/emergencies/content/spcc/index.htm) accessed April 28, 2015.

- US Environmental Protection Agency (EPA). 2015b. Facilities with Existing Spill Response Plans. Website (http://www2.epa.gov/oil-spills-prevention-and-preparedness-regulations/facilitiesexisting-spill-response-plans) accessed July, 29 2015.
- US Environmental Protection Agency (EPA). 2015c. Bakken Crude Oil. Region 10 Regional Response Team and NW Area Committee. Website (www.rrt10nwac.com) accessed June 09, 2015.
- US Environmental Protection Agency (EPA). 2015d. Emergency Management Program. Mid-Columbia River GRP Workshop, April 17, 2015. Presentation available at http://www.epaosc.org/site/site_profile.aspx?site_id=9873.
- US Fish and Wildlife Service (USFWS). 2010. Effects of Oil Spills on Wildlife and Habitat.
- US Forest Service (USFS) and Bureau of Land Management (BLM). 2011. Interagency Special Status/Sensitive Species Program. Final Oregon/Washington State Director Special Status Species List December 1, 2011. Website (http://www.fs.fed.us/r6/sfpnw/issssp/agency-policy/) accessed May 24, 2015.
- Vancouver Energy. 2015a. Vancouver Energy Construction Spill Prevention, Control, and Countermeasures Plan. No. C.10 | Revision 00, 30 April 2015.
- Vancouver Energy. 2015b Vancouver Energy Operations Facility Safety Program Plan. No. OP.02 | Revision 00, 30 April 2015.
- Vidal, M., J. Dominguez, and A. Luis. 2011. Spatial and temporal patterns of polycyclic aromatic hydrocarbons (PAHs) in eggs of a coastal bird from northwestern Iberia after a major oil spill. *Science of the Total Environment* 409: 2668-2673.
- Walker, D.A., P.J. Webber, K.R. Everett, and J. Brown. 1978. Effects of crude and diesel oil spills on plant communities at Prudhoe Bay, Alaska, and the derivation of oil spill sensitivity maps. Arctic 31(3):242-259.
- Washington Department of Fish and Wildlife (WDFW). 2015. Priority Habitat and Species List. Olympia, WA.
- Washington State Department of Ecology (Ecology). 2005. Socioeconomic Cost Modeling for Washington State Oil Spill Scenarios: Part II. Prepared by Environmental Research Consulting, November 15. Website (http://www.environmentalresearch.com/erc_reports/ERC_report_3C.pdf) accessed April 21, 2015.

Washington State Department of Ecology (Ecology). 2013. Emerging Risks Task Force Report.

- Washington State Department of Ecology (Ecology). 2015a. Washington State 2014 Marine & Rail Oil Transportation Study. Publication Number: 15-08-010. March 1.
- Washington State Department of Ecology (Ecology). 2015b. Toolkit for Oil Spill and Drills. Available online at http://www.ecy.wa.gov/programs/spills/preparedness/Drills/ics.html. Accessed June 24, 2015.
- Washington State Department of Ecology (Ecology). 2015c. Local Emergency Planning Committees within Washington State. Website (http://www.ecy.wa.gov/epcra/lepclist.html) accessed May 26.

- Washington State Department of Health (WDOH). 2006. Access to the Nearest Acute Care Hospital in Washington. Available online at http://ww4.doh.wa.gov/gis/pdf/acute_tt.pdf.
- Washington State Department of Health (WDOH). 2013b. Critical Access Hospitals. Available online at http://ww4.doh.wa.gov/gis/pdf/CAH_8.pdf.
- Washington State Fire Marshal's Office. 2015. Washington State Fire Services Resource Mobilization Plan. Revised June 2015. Available online at http://www.wsp.wa.gov/fire/docs/mobilization/mobeplan_cover_allsections.pdf.
- Witt O'Brien's, Polaris Applied Sciences, and Western Canada Marine Response Corporation. 2013. A Study of Fate and Behavior of Diluted Bitumen Oils on Marine Waters: Dilbit Experiments Gainford, Alberta. November 22.
- World Health Organization. (WHO). 2004. Rolling Revisions of the WHO Guidelines for Drinking-Water Quality. Petroleum oils in drinking water. Website (http://www.who.int/water_sanitation_health/dwq/chemicals/petroleum.pdf) accessed August 3, 2015.
- Worley Parsons and DNV GL Oil & Gas. 2014. Vessel Traffic Study for Vancouver Energy Terminal: Vessel Traffic Risk Assessment Traffic Impact Analysis. Prepared for Tesoro Savage Petroleum Terminal LLC. Available online at http://www.vancouverenergyusa.com/assets/pdeis 12.17.14.pdf. Accessed June 24, 2015.

CHAPTER 5, CUMULATIVE IMPACTS

- Ambre Energy. 2014. The Morrow Pacific Project: About. Website (http://morrowpacific.com/the-project) accessed December 29, 2014.
- Anchor QEA, LLC. 2011. Water Quality Protection and Monitoring Plan, Port of Vancouver USA, Terminal 5 Bulk Potash Handling Facility. Prepared for Port of Vancouver and BHP Billiton Canada, Inc. October. Website (http://www.portvanusa.com/assets/tinymce/files/5.%20WQPMP_October_2011.pdf) accessed December 30, 2014.
- Andrews, A., R. Pirog, and M.F. Sherlock. 2010. The U.S. Oil Refining Industry: Background in Changing Markets and Fuel Policies, Congressional Research Service, R41478, November 22. Website (www.crs.gov) accessed May 12, 2015.
- Arc Logistics Partners. 2014. Arc Logistics Partners LP Announces Entrance Into West Coast Terminalling Market, Press Release January 22, 2014. Website (http://arcxlp.com/arc-logisticspartners-lp-announces-entrance-into-west-coast-terminalling-market/) accessed December 29, 2014.
- BergerABAM. 2011a. Port of Vancouver USA Terminal 5 Bulk Potash Handling Facility; Type II Post-Decision review critical areas report addendum. December. Website (http://www.portvanusa.com/assets/tinymce/files/8.%20CA%20Report%20Addendum_Final_22 Dec2011.pdf) accessed December 23, 2014.

- BergerABAM. 2011b. Port of Vancouver USA Terminal 5 Bulk Potash Handling Facility; Request for an Incidental Harassment Authorization under the Marine Mammal Protection Act. May. Website (http://www.nmfs.noaa.gov/pr/pdfs/permits/portofvancouver_iha_application.pdf) accessed March 12, 2015.
- BergerABAM. 2014b. Preliminary Draft Environmental Impact Statement for the Tesoro-Savage Vancouver Energy Distribution Terminal. July.
- Blaufus, L. 2015. Senior Manager, Customer Accounts and Energy Services. Clark Public Utilities. Personal communication with Emily Merickel, Senior Staff Scientist, Cardno, April 7, 2015.
- Brown, P., R. Pirog, A. Vann, I.F. Fergusson, M. Ratner, and J.L. Ramseur. 2014 U.S. Crude Oil Export Policy: Background and Considerations. Congressional Research Service Report 7-5700. Available online (https://www.fas.org/sgp/crs/misc/R43442.pdf).
- BST Associates. 2010. Assessment of Water-dependent Commercial, Industrial, and Recreational Uses for Clark County Coalition SMP Update, Final Draft Report, May. Website (http://www.ecy.wa.gov/programs/sea/shorelines/smp/mycomments/clark/appendixd_bst_report.p df) accessed December 30, 2014, and February 4, 2015.
- Burlington Northern Santa Fe (BNSF) Railway. 2015. BNSF Service Overview. Website (http://www.bnsf.com/customers/service-page/index.html) accessed February 4, 2015.
- Canpotex. 2014. Canpotex to Invest at Port of Portland Terminal. October 8. Website (http://www.canpotex.com/news/2014/10/08/canpotex-to-invest-at-port-of-portland-terminal/) accessed January 20, 2015.
- CBC News. 2013. Oil brought by rail, truck to Burnaby refinery. July 16. Website (http://www.cbc.ca/news/canada/british-columbia/oil-brought-by-rail-truck-to-burnaby-refinery-1.1309612) accessed January 5, 2015.
- Chevron Canada. 2015. Burnaby Refinery. Website (http://www.chevron.ca/our-businesses/burnabyrefinery) accessed January 5, 2015.
- City of Vancouver. 2014a. Public Notice ID 22026802.HTM. December 23. Website (http://www.publicnoticeads.com/WA/search/view.asp?T=PN&id=2884%5C12222014_2202680 2.HTM) accessed January 12, 2015.
- City of Vancouver. 2014b. Reconnecting to the Waterfront. Website (http://www.cityofvancouver.us/community/page/reconnecting-waterfront) accessed December 30, 2014.
- Columbia Waterfront, LLC. 2014. The Waterfront Master Plan. Website (http://www.thewaterfrontvancouverusa.com/master-plan.html) accessed December 30, 2014.
- *The Columbian*. 2014. Vancouver port looks to develop new Red Lion hotel. December 17. Website (http://www.columbian.com/news/2014/dec/17/vancouver-port-develop-new-red-lion-hotel/) accessed January 12, 2015.

- *The Columbian.* 2015. Longview port rejects propane export terminal proposal. March 11. Website (http://www.columbian.com/news/2015/mar/11/longview-port-rejects-propane-export-terminal/) accessed March 16, 2015.
- Council on Environmental Quality (CEQ). 1997. Considering Cumulative Effects under the National Environmental Policy Act. January.
- Croft, C.D., and T.W. Patzek. 2009. The Future of California's Oil Supply. Conference presentation: Society of Petroleum Engineers (SPE) Western Regional Meeting, San Jose, California. March 24-26.
- E2 Consulting Engineers, Inc. 2012. Final Report Adaptive Environmental Management for the Columbia River Channel Improvement Project: Annual Report for 2011. Website (http://www.nwp.usace.army.mil/Portals/24/docs/environment/aem/AMT_AnnualReport2011.pdf)) accessed June 16, 2015.
- Energy Global. 2015. Hydrocarbon Engineering: Regional Refinery Trends Continue to Evolve, January 8. Website (http://www.energyglobal.com/downstream/refining/08012015/US-regionalrefinery-trends-037) accessed May 13, 2015.
- Energy Facility Site Evaluation Council (EFSEC). 2014. Order Determining Land Use Consistency in the Matter of Application No. 2013-01: Tesoro Savage, Vancouver Energy Distribution Terminal. Council Order No. 872. Website (http://www.efsec.wa.gov/FILES/orders/872%20-%2020140801TSVEDTLandUseOrder.pdf) accessed August 7, 2015.
- ExxonMobil. 2015. Crude Oil Information. Website (http://www.exxonmobil.com/crudeoil/about_crudes_api.aspx) accessed May 18, 2015.
- Federal Railroad Administration (FRA). 2015. Federal Railroad Administration Issues Directive to Replace Unapproved Tank Car Valves, March 13. Website (http://www.fra.dot.gov/eLib/details/L16259) accessed June 16, 2015.
- Gateway Pacific Terminal EIS. 2012. Overview. Website (http://www.eisgatewaypacificwa.gov/about/overview) accessed December 29, 2014.
- Global Partners LP. 2013. Global Partners Signs Agreement to Acquire West Coast Crude Oil and Ethanol Facility, Press Release, January 28, 2013. Website (http://www.globalp.com/news/article.cfm?articleID=275) accessed December 31, 2014.
- Grette G.B. 2012. Millennium Bulk Terminals Longview, LLC (MBTL) Coal Export Terminal Joint Aquatic Resources Permit Application (JARPA) Form. Prepared by Grette Associates. October. Website (http://www.ecy.wa.gov/geographic/millennium/20120222_JARPAapplication.pdf) accessed December 29, 2014.
- Haven Energy. 2014a. Haven Energy Announces Terminal Project at the Port of Longview. Press Release, April 10, 2014. Website (http://havenenergyterminal.com/_assets/pdf/press-release-04-10-14.pdf) accessed December 29, 2014.
- Haven Energy. 2014b. Haven Energy Terminal. Website (http://havenenergyterminal.com/) accessed December 29, 2014.

- Hoyle, R. 2014. BHP Billiton Passes on Potash Export Facility, The Wall Street Journal News Article, June 25, 2014. Website (http://www.wsj.com/articles/bhp-billiton-passes-on-potash-exportfacility-1403684386) accessed December 30, 2014.
- Hydrocarbon Processing. 2015. US petrochemical construction boom and refining margins cushion profits, April 1, 2015. Website (http://www.hydrocarbonprocessing.com/Article/3440533/US-petrochemical-construction-boom-and-refining-margins-cushion-profits.html) accessed May 13, 2015.
- Jensen, A.S., and G.K. Silber. 2004. Large Whale Ship Strike Database. NOAA Technical Memorandum.
- Merchants Exchange of Portland, Oregon. 2012. Annual Report. Portland, Oregon.
- Millennium Bulk Terminals-Longview EIS. 2013. Frequently Asked Questions. Website (http://www.millenniumbulkeiswa.gov/frequently-asked-questions.html) accessed December 29, 2014.
- National Energy Technology Laboratory (NETL). 2008. Development of Baseline Data and Analysis of Life Cycle Greenhouse Gas Emissions of Petroleum-Based Fuels. November 26, 2008.
- National Energy Technology Laboratory (NETL). 2009. An Evaluation of the Extraction, Transport and Refining of Imported Crude Oils and the Impact on Life Cycle Greenhouse Gas Emissions. March 27.
- North Dakota Petroleum Council. 2012. Website (http://www.ndoil.org/oil_can_2/faq/faq_results/?offset=5&advancedmode=1&category=Bakken %20Basics) accessed May 18, 2015.
- Northwest Innovation Works. 2014. Northwest Innovation Works. Website (http://nwinnovationworks.com/) accessed December 29, 2014.
- Oil & Gas Journal. 2014. Washington State enacts new regulation for refineries, April 29, 2014. Website (http://www.ogj.com/articles/2014/05/washington-state-enacts-new-regulation-for-refineries.html). Accessed May 13, 2015.
- Oil and Gas Journal. 2014. Washington refinery finds new owner. June 9. Website (http://www.ogj.com/articles/2014/06/washington-refinery-finds-new-owner.html) accessed January 9, 2015.
- Oregon Department of Environmental Quality (ODEQ). 2013. Standard Air Contaminant Discharge Permit; Review Report; Columbia Pacific Bio-Refinery - Transloading Facility. Permit No.: 05-0023-ST-01. Website (http://www.oregon.gov/deq/docs/CPBR_aqRR2014.pdf) accessed December 29, 2014.
- Oregon Department of Environmental Quality (ODEQ). 2014. Oregon LNG. Website (http://www.oregon.gov/DEQ/NWR/Pages/Oregon-LNG.aspx) accessed December 29, 2014.
- Oregon LNG. 2014. Project overview web page. Website (http://www.oregonlng.com/project-overview/) accessed December 29, 2014.

- Oregon Public Broadcasting. 2015. Oil Refinery Could be Built in Longview or Elsewhere in the Northwest, April 15, 2015. Website (http://www.opb.org/news/article/an-oil-refinery-could-be-built-in-longview-or-elsewhere-in-the-northwest/) accessed May 13, 2015.
- Pacific Northwest Rail Coalition. 2011. Pacific Northwest Marine Cargo Forecast Update and Rail Capacity Assessment. Prepared By BST Associates and MainLine Management. Final Report. December.
- Plaza, J. 2013. Imperium Terminal Services, LLC. Imperium bulk liquid terminal facility project proposal environmental checklist resubmittal. February 22. Website (http://www.ecy.wa.gov/geographic/graysharbor/20130222-Imperium-SEPAchecklist.pdf) accessed December 29, 2014.
- Port of Kalama. 2014. Manufacturing & Marine Export Facility SEPA. Website (http://kalamamfgfacilitysepa.com/) accessed December 29, 2014.
- Port of Tacoma. 2015a. Northwest Innovation Works. Website (http://portoftacoma.com/northwestinnovation-works) accessed January 9, 2015.
- Port of Vancouver (Port). 2012a. Centennial Industrial Park; Acres of Opportunity. Port of Vancouver. October. Website (http://www.portvanusa.com/assets/POV_cip_spread_r2.pdf) accessed December 30, 2014.
- Port of Vancouver (Port). 2012b. SEPA Notice of Action. October 15. Website (http://www.portvanusa.com/assets/tinymce/files/Notice%20of%20Action%2010-15-12.pdf) accessed December 30, 2014.
- Port of Vancouver (Port). 2013a. Port to Add Bike Paths on Lower River Road. August 15, 2013. Website (http://www.portvanusa.com/news-releases/port-to-add-bike-paths-on-lower-river-road/) accessed January 7, 2015.
- Port of Vancouver (Port). 2013b. Gateway Avenue Grade Separation in Final Stages. September 25, 2013. Website (http://www.portvanusa.com/industrial/gateway-avenue-grade-separation-final-stages/) accessed December 30, 2014.
- Port of Vancouver (Port). 2014a. Centennial Industrial Park. Website (http://www.portvanusa.com/industrial/cip/) accessed December 30, 2014.
- Port of Vancouver (Port). 2014b. Notice of Mitigated Determination of Nonsignificance (MDNS): Port of Vancouver Trail Project, CP0280/281.
- Port of Vancouver (Port). 2014c. West Vancouver Freight Access (WVFA) Project webpage. Website (http://www.portvanusa.com/wvfa/benefits/) accessed December 30, 2014.
- Port of Vancouver (Port). 2014d. West Vancouver Freight Access; Rail Construction Project Elements. June 6. Website (http://www.portvanusa.com/assets/POV-WVFA-Poster_2014-lores.pdf) accessed December 30, 2014.
- Port of Vancouver (Port). 2014e. West Vancouver Freight Access; Loop Track. Website (http://www.portvanusa.com/wvfa/projects/part-3/#/wvfa/projects/loop-track/) accessed December 30, 2014.

- Port of Vancouver (Port). 2014f. SEPA Environmental Checklist for Comprehensive Scheme of Harbor Improvements and Industrial Development. Website (http://www.portvanusa.com/assets/SEPA-Checklist-Exhibits-CSA-8-2014-Final.pdf) accessed December 30, 2014.
- Port of Vancouver (Port). 2014g. Resolution No. 8-2014: A Resolution of the Port of Vancouver Board of Commissioners, Clark County, Washington, Amending the Port of Vancouver Comprehensive Scheme of Harbor Improvements and Industrial Development. Website (http://www.portvanusa.com/assets/Attachment-A-Res-8-2014.pdf) accessed December 30, 2014.
- Port of Vancouver (Port). 2014h. Port Takes Another Step Forward in Waterfront Development. September 12. Website (http://www.portvanusa.com/news-releases/port-takes-another-step-forward-waterfront-development/) accessed January 12, 2015.
- Port of Vancouver (Port). 2014i. Port of Vancouver Strategic Plan 2014-2023. Website (http://www.portvanusa.com/assets/2014-Strategic-Plan-FINAL.pdf) accessed February 4, 2015.
- Port of Vancouver (Port). 2015a. Environmental Services: Columbia River Wetland Mitigation Bank. Website (http://www.portvanusa.com/environmental-services/wetland-bank/) accessed January 7, 2015.
- Port of Vancouver (Port). 2015b. West Vancouver Freight Access. Website (http://www.portvanusa.com/wvfa/wvfa-home/) accessed February 28, 2015.
- Port of Vancouver (Port). 2015c. Industrial: Acres of Opportunity. Website (http://www.portvanusa.com/industrial/strategic-advantages/) accessed September 28, 2015.
- The President's Climate Action Plan. 2013. Website (https://www.whitehouse.gov/sites/default/files/image/president27sclimateactionplan.pdf) accessed July 6, 2015.
- Puget Sound Energy (PSE). 2015. Tacoma LNG. Website (http://www.tacomacleanlng.com/) accessed January 9, 2015.
- Reuters. 2014. Obama move on U.S. oil exports paves way for Canadian crude, too. December. Website (http://www.reuters.com/article/2014/12/30/usa-crude-exports-canada-idUSL1N0UE1L320141230) accessed August 4, 2015.
- Reuters. 2015. Energy company eyes Washington state port for new project, April 15, 2015. Website (http://www.reuters.com/article/2015/04/16/washington-oil-refinery-idUSL2N0XD01320150416) accessed May 13, 2015.
- Rizzo, T.J. 2013. Environmental checklist submitted to Skagit County Planning and Development Services. December 18. Website (http://www.skagitcounty.net/PlanningAndPermit/Documents/ShellPermit/SEPA%20Checklist.p df) accessed December 29, 2014.
- Shoemake, R.K. 2014. Westway Terminal expansion joint aquatic resources permit application (JARPA) form. February 13, 2014. Website (http://www.ecy.wa.gov/geographic/graysharbor/20140211-Westway-JARPAapp.pdf) accessed December 29, 2014.

- Simenstad, C.A., J.L. Burke, J.E. O'Connor, and C. Cannon. 2011. Columbia River Estuary Ecosystem Classification-Concept and Application. USGS Open File Report 5 2011-1228.
- Southwest Clean Air Agency (SWCAA). 2014a. Technical Support Document, Air Discharge Permit ADP 07-2710R3. SWCAA ID: 460/270. April 21.
- Southwest Clean Air Agency (SWCAA). 2014b. Final Air Discharge Permit for LPG Bulk Terminal. August 26. Website (http://www.swcleanair.org/permits/Final/14-3107ADP.PDF accessed January 15, 2015.
- Targa. 2015. Targa Sound Terminal. Website (http://www.targasoundterminal.com/index.html) accessed January 5, 2015.
- Tesoro. 2014. Anacortes Factsheet, March 11. Website (http://tsocorpsite.files.wordpress.com/2014/08/anacortesfact.pdf) accessed January 5, 2015.
- US Army Corps of Engineers (USACE). 2011. Waterborne Commerce of the United States, Part 4 Waterways and Harbors, Pacific Coast, Alaska and Hawaii. Institute for Water Resources IWR-WCUS-11-4. Website (http://www.navigationdatacenter.us/wcsc/pdf/wcuspac11.pdf) accessed February 4, 2015.
- US Army Corps of Engineers (USACE). 2014. Corps Seeks Comments on Draft EA for Columbia River Federal Navigation Channel Operations and Maintenance Dredging. Release No: PA 14-023. April 3. Website (http://www.nwp.usace.army.mil/Portals/24/docs/announcements/PN/PN_CR-FNC_3Apr2014.pdf) accessed December 23, 2014.
- US Development Group. 2013. Grays Harbor Rail Terminal (GHT) Proposed Facility at Port of Grays Harbor Frequently Asked Questions. Website (http://www.portofgraysharbor.com/downloads/crude-by-rail/USD_FAQ.pdf) accessed December 29, 2014.
- US Energy Information Administration (EIA). 2012. PADD regions enable regional analysis of petroleum product supply and movements. Website (http://www.eia.gov/todayinenergy/detail.cfm?id=4890) accessed September 28, 2015.
- US Energy Information Administration (EIA). 2014. California Profile Analysis. Available at: http://www.eia.gov/state/analysis.cfm?sid=CA. Accessed May 15, 2015.
- US Energy Information Administration (EIA). 2015. Refining Crude Oil. Website (http://www.eia.gov/energyexplained/index.cfm?page=oil_refining#tab3) accessed May 15, 2015.
- US Environmental Protection Agency (EPA). 1999. Consideration of Cumulative Impacts in EPA Review of NEPA Documents. EPA Office of Federal Activities. EPA 315-R-99-002.
- US Environmental Protection Agency (EPA). 2010. Designation of North American Emission Control Area to Reduce Emissions from Ships. Office of Transportation and Air Quality, EPA-420-F-10-015. March 2010. Website (http://www.epa.gov/nonroad/marine/ci/420f10015.pdf) accessed July 2015.
- US Environmental Protection Agency (EPA). 2013a. Control of Emissions from Idling Locomotives. EPA-420-F-13-050. Office of Transportation and Air Quality, Ann Arbor, MI. December.

- US Environmental Protection Agency (EPA). 2013b. Glossary of Climate Change Terms. Website (http://www.epa.gov/climatechange/glossary.html) accessed January 27, 2015.
- US Environmental Protection Agency (EPA). 2014a. U.S. Greenhouse Gas Inventory Report: 1990-2013. Website (http://www.epa.gov/climatechange/ghgemissions/usinventoryreport.html) accessed May 15, 2015.
- US Environmental Protection Agency (EPA). 2014b. Global Greenhouse Gas Emissions. Updated May 2014. Website (http://www.epa.gov/climatechange/pdfs/print_global-ghg-emissions-2014.pdf) accessed May 15, 2015.
- Washington State Department of Ecology (Ecology). 2014a. Emerging Energy Transportation Risks, Spill Prevention, Preparedness, and Response Program. PowerPoint presentation.
- Washington State Department of Ecology (Ecology). 2014b. 2011 Comprehensive Emissions Inventory Summary Data. Website (http://www.ecy.wa.gov/programs/air/EmissionInventory/AirEmissionInventory.htm) accessed February 5, 2015.
- Washington State Department of Ecology (Ecology). 2015. Washington State 2014 Marine and Rail Oil Transportation Study. Publication Number 15-08-010, March 1.
- Wells, P., L.G. Woods, G. Bridgewater, and H. Morrison. 1999. Wildlife mortalities on railways: monitoring methods and mitigation strategies. *Proceedings of the Third International Conference* on Wildlife Ecology and Transportation, September 13-16, 1999, Missoula, MT.
- Whatcom County. 2012. SEPA Mitigated Determination of Nonsignificance (MDNS). Planning & Development Services. File: SEP2012-00059. Website (http://www.co.whatcom.wa.us/pds/plan/sepa/pdf/sep2012-00059-sepa-packet-mdns-20121018part1.pdf) accessed December 29, 2014.
- Whatcom County. 2013. SEPA Mitigated Determination of Nonsignificance (MDNS). Planning & Development Services. File: SEP2013-00005. Website (http://www.co.whatcom.wa.us/pds/plan/sepa/pdf/sep2013-00005-sepa-packet-mdns-20130429.pdf) accessed December 29, 2014.
- Wilson & Company. 2015. Tesoro Crude Oil Unit Train Unloading Facility. Website (http://www.wilsonco.com/Tesoro%20Crude%20Oil) accessed January 5, 2015.

WorleyParsons. 2014. Vessel Traffic Risk Assessment Traffic Impact Analysis, September.