

## CURRICULUM VITAE

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**Daniel Shafar, PE, ENV SP**

**EDUCATION:** BS, Washington State University/2006/Civil Engineering  
Washington State University/2006/Honors College

**REGISTRATION/NO.:** 2011/Professional Engineer/85760, Oregon  
2011/Professional Engineer/47728, Washington

**CERTIFICATIONS:** Envision Sustainability Professional Credential, 16 August 2015  
U.S. Transportation Safety Administration, Transportation Worker Identity Credential, Expires 1/6/18

**MEMBERSHIP OF PROFESSIONAL SOCIETIES:** American Society of Civil Engineers (ASCE), Member  
Water Environment Federation, Member  
Tau Beta Pi, The Engineering Honor Society, Member  
National Society of Collegiate Scholars, Member

**COUNTRIES WITH WORK EXPERIENCE:** United States

**EMPLOYMENT RECORD:** 2004 to 2005, Capital Planning & Development, WA  
2007 to 2012, Wallis Engineering, WA  
2012 to Present, BergerABAM, OR and WA

### EXPERIENCE

Dan Shafar has 10 years of civil engineering experience in the analysis, design, and construction of civil engineering projects. He is particularly experienced with analyzing, designing, and permitting of water, sewer, and stormwater utilities and site development. Dan's involvement in project include concept development, comprehensive master planning, National Pollutant Discharge Elimination System (NPDES) permitting, hydraulic modeling, design, preparation of construction documents, and construction support services.

His applicable project experience includes the following.

Port Methanol Facility Permitting, Kalama, WA. Project engineer responsible for the development of NPDES (wastewater and stormwater) permits and wastewater engineering report for NW Innovation Works, LLC. Project included mixing zone analysis of combined effluent streams between the proposed facility, Port of Kalama domestic treatment plant, and Steelscape waste streams. Responsibilities included extensive coordination with the project team and process designers and the development of a detailed engineering report for submission with the NPDES permit application for review and approval by the Washington State Department of Ecology.

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BergerABAM

(2015)

Boeing Site Logistics Southwest Marshaling Yard, Renton, WA. Project engineer responsible for preparing civil engineering design for industrial site, including truck maneuvering, inspection buildings, unloading facilities, and parts movement industrial yards. Project included stormwater collection, conveyance, and treatment; site grading and paving; municipal utility extensions for water supply, fire water, and sanitary sewer; and site appurtenances (fencing, access gates, and striping). Work included extensive coordination with the client, City, and regulators regarding accelerated permitting and contaminated media management. (2014 to 2015)

Newport Seafood Wharf, Newport, OR. Project engineer responsible for development of the utility, stormwater, and frontage design of a seafood handling wharf for a confidential client. Design included using SLOPES system for stormwater sizing and treatment, and required the preparation of a new 1200-Z NPDES permit through the Oregon Department of Environmental Quality. Stormwater was treated on site through cartridge filtration to meet water quality standards. Utilities for domestic/process water, natural gas, sewer, electrical, and communications were stubbed through an abutment for future extension to a future process/warehousing building. Frontage improvements included the replacement of curb and gutter and the sidewalk adjacent to the property and coordination with the City. Project needed to maintain pedestrian access during peak Newport tourism season. (2015)

Finger Pier and Mooring Dolphins Preliminary Engineering and Final Design, Rainier, OR. Design and permitting engineer for stormwater treatment and conveyance modifications resulting from the construction of a new barge dock for increased export operations. Project required completing an amendment to the site's existing industrial stormwater permit (1200-Z). Prepared updated, site-specific stormwater management plan, including additional information necessary to comply with the state Construction Stormwater Best Management Practices Manual. Completed all permit coordination, including identification and assessment of all discharges from the site (including wastewater sources). Also prepared necessary permit applications, design details, and a construction stormwater pollution prevention plan to obtain permit approval for a construction stormwater general permit (1200-C). (2013 to 2014)

Vancouver Energy Distribution Terminal Design, Environmental Impact Statement, and Permitting, Vancouver, WA. Design engineer responsible for civil and site development design services for the 45-acre industrial transload facility. Design elements of this brownfield redevelopment project included site layout, grading, stormwater analysis and design, municipal utility connections, and utility coordination. Also responsible for drafting the applicable water resources sections of the state Energy Facility Site Evaluation Council application for site certification and environmental impact statement (EIS) and for drafting permitting documents, including construction and operational NPDES permits. Additional stormwater tasks included stormwater runoff and conveyance modeling, development of anticipated pollutants, and preparation of detailed engineering report. (2013 to 2014)

Terminal 5 Industrial Development, Vancouver, WA. Design engineer responsible for civil and drainage design services to construct a stormwater detention and conveyance system to re-route surface water on-site and prevent future embankment washouts for a confidential client. Project included stormwater modeling, runoff, and detention calculations. Responsibilities also included close coordination with stakeholders, including the on-site contractor, client, and the Port of Vancouver USA. (2013)

Vancouver Energy Distribution Terminal Water Quality and Water Permitting, Vancouver, WA. Developed the analysis and prepared all water quality permits, including wastewater and stormwater, and served as project site civil engineer for this proposed energy distribution facility. Work included preliminary permitting, coordination with applicable regulatory agencies, and background research related to existing surface water quality, as well as design and final permit preparation. Developed a construction and operational stormwater pollution prevention plan. Prepared detailed documentation in support of the EIS and the engineering report required for the NPDES permit application. Worked with the owner and mechanical engineer to determine anticipated discharge constituents using raw water source and similar facilities. Prepared all NPDES and local jurisdiction permit applications. Project wastewater sources included raw water treatment, boiler blowdown, water softener backwash, and cooling water, as well as mechanical pump pits and floor drains from within the facility. (2013 to Present)

Riverbend Leachate Improvements, Newberg, OR. Lead design engineer for the design of a new leachate load-out facility for Waste Management. Responsible for the design of the system and dual-contained force main. Facility included two load-out locations, 105,000-gallon surge storage facility, and floating pump skids. Requirements included adherence to strict no spill and containment regulations, compact site design, accelerated design schedule, and construction sequencing in three parts to facilitate construction of a 40-foot-tall mechanically stabilized earth berm. (2012)

Hillsboro Leachate Transfer Improvements, Hillsboro, OR. Lead design engineer for a new leachate transfer facility for Waste Management. Responsible for the design of three pumping systems and a 42,000-gallon portable surge storage facility. Facility included site grading, utility improvements, tanker truck transfer pump system, recirculation pump system, and a facility effluent pump system. Project requirements included maximum discharge rate to the existing leachate system and downstream sanitary sewer. Additionally, the entire Hillsboro landfill leachate system was modeled. (2012)

Arlington Water System Assessment, Arlington, OR. Design engineer for a water system analysis and planning for Waste Management. Project assessed potable and non-potable water systems, source supply and booster pump and operational schematic, and recommended modifications to the system configuration. The system was modeled to ensure fire flow and system operations for offices and maintenance buildings and a large plasma burner that required dedicated fire storage reservoir and pump systems. Recommendations included example specifications and preliminary plans for upgrades to three booster pump stations with a total of seven pumps, and an analysis of a fire booster station with three pumps capable of delivering over 6,000 gallons per minute to the plasma burner complex. (2011)

Chelatchie Prairie Railroad Sewer Improvements, Vancouver, WA. Design engineer and construction inspector for the sanitary sewer force main extension and gravity sewer repair and rehabilitation project located within the Chelatchie Prairie Railroad right-of-way for the Clark Regional Wastewater District. Project included condition assessment of existing, heavily corroded concrete pipe. The design alternative of direction drill was selected to extend force main through the railroad right-of-way to the existing downstream interceptor project. The portion of the gravity sewer that had fully failed was open excavated and replaced, and the entire gravity sewer through alignment was lined using a cured-in-place pipe liner to prevent further corrosion due to hydrogen sulfides and to reinforce failing pipe conditions. Project included deep excavations, dewatering, and extensive railroad coordination because of its close proximity to active rail lines and private residences. (2009)

#### **SPECIAL ENDEAVORS**

Extensive experience with the following modeling platforms: SewerGEMS, Hydra, WaterCAD, EPANet, WWHM, MGS Flood, StormShed

Young Engineer of the Year, 2014-2015 ASCE Annual Award Winner