Nikki Rise
Associate Engineer

integral consulting inc.

Education and Credentials

M.S., Civil Engineering, University of Washington, Seattle, Washington, 2019

B.S., Environmental Science and Resource Management, University of Washington, Seattle, Washington, 2018

Professional Profile

Ms. Nikki Rise is an associate engineer with more than a year of professional experience providing support in contaminated soil and sediment remediation, fieldwork, cost allocation, stormwater, and environmental data analysis and modeling. Her work experience includes sites contaminated with PCBs, PAHs, metals, dioxins/furans, pesticides, and nonaqueous-phase liquid in soil, sediment, and groundwater. Ms. Rise is a graduate of the University of Washington with a master's degree in civil engineering, focused on environmental engineering. Her skills include hydrologic modeling, water treatment design and engineering, field sampling of sediment and groundwater, environmental data analysis, and GIS.

Relevant Experience

Remedial Engineering

Lower Duwamish River Superfund Site, Seattle, Washington— Supported development of alternative sediment remediation methods for contaminated soils and sediments located within the Lower Duwamish River. Assisted in developing robust cost and natural resource credit estimates for various restoration and remediation options to restore areas contaminated with PCBs, PAHs, and other focused chemicals of concern in the Lower Duwamish.

Electric Power Generation Station, Hawaii—Supported efforts involving source control for an active generating station with historical PCB contamination in accumulated sediment in water bodies, pipes, and tunnels. Site challenges included scattered artesian conditions throughout the site and soft sediments, and logistical challenges regarding flow diversion due to the nature of the site. Responsibilities included supporting development of the design report and writing project specifications and contractual documents.

Former Manufactured Gas Plant (MGP) Site, Missoula, Montana — Supported an environmental assessment and remedial proposal for a former MGP in Missoula, Montana. Responsibilities included reviewing historical documents and records, developing site and sampling maps and figures using GIS, and developing informative literature related to investigative sampling.

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Litigation/Allocation Support

Portland Harbor Superfund Site, Portland, Oregon—Supported cost allocation efforts for sediment remediation in the Portland Harbor Superfund site. Performed comprehensive contaminated soil data analysis, analyzing PCB, PAH, metals, and other focused contaminant concentrations in upland and riparian soil and sediments along the Willamette River. Other cost allocation support efforts included supporting expert report writing and analyzing outfall data along the Willamette River to establish temporal sediment sampling trends.

General and Industrial NPDES Stormwater Permit Support, Puget Sound, Washington—Supported expert opinion and permit comment development for industrial clients around the Puget Sound region using knowledge of Washington State stormwater policies. Responsibilities included developing project scopes and budgets, reviewing documents, supporting expert opinion development, and drafting permit comments.

Model Toxics Control Act (MTCA) Site Support, Port Angeles, Washington—Supported client on a team of expert consultants and advisors regarding a commercial property under the MTCA. Responsibilities included assisting in the development of guidance documents, conducting cost estimations and assessments, developing a contaminated material management plan, and producing maps and figures using GIS.

Data Collection and Analysis

Portland Harbor Superfund Site, Portland, Oregon—Performed fieldwork associated with pre-design investigation at PCB sediment Superfund site. Conducted sampling for sediment and groundwater characterization to support remedial design evaluation. Work included processing sediment core samples, groundwater sampling, and coordination with field staff.