



## Erik Anderson

Project Geologist

### EDUCATION

B.S., Environmental Analysis, Unity College, Unity, Maine – 2003

M.S., Geosciences and Environment, University of Greifswald, Greifswald, Germany - 2008

### GENERAL EXPERIENCE

Erik has over 15 years of professional experience working in a variety of fields the geological sciences. Erik is a skilled field geologist having logged, interpreted and completed hundreds of subsurface explorations in a wide variety of geologic settings around the world some to depths over one thousand feet. He has experience with many forms of geotechnical subsurface data acquisition techniques including hollow-stem, air rotary, direct push, Standard and Modified Penetration Test sampling, hard rock coring, and test pit excavation.

He is a seasoned in the application of geotechnical engineering theories to the formulation of subsurface investigations. Under the supervision of an Engineer he can perform calculations for various engineering design parameters such as bearing capacity. Erik also has extensive knowledge in geophysics and has acquired, processed and interpreted a variety of geophysical surveys. Erik possesses deep expertise in Geographic Information Systems (GIS) and can perform a wide variety of statistical analysis of spatial information to glean insights which are otherwise hidden.

### RELEVANT PROJECT EXPERIENCE

Juneau Access Project, Juneau-Skagway, Alaska, AKDOT&PF, 2011-2013 – Erik conducted geotechnical reconnaissance and geologic mapping for optimization of the design and route of the propose Juneau Access road. A proposed road from Juneau to a proposed short ferry terminal near Skagway having a total estimated cost of over \$500 million.

“Anchorage Earthquake” Geotechnical Evaluations, Anchorage Alaska, NGE, 2019-2020 – Erik performed geotechnical investigations and evaluations on dozens of residential and commercial properties resulting from the “Anchorage Earthquake” a 7.1 magnitude earthquake.

Lutak Slope Failure, Haines, Alaska, AKDOT&PF, 2012 – Erik conducted an emergency subsurface investigation to support stability analysis and engineering related to a slope failure which included a 300 foot section of roadway and residential structures.

Slope failure susceptibility mapping: Tongass Highway, Ketchikan, Alaska, AKDOT&PF, 2013 – Erik used GIS to assess the relative stability of rock slopes along a 30 mile section of highway. This stability index was based on correlations from observed instances of rock slope failures and selected factors including rock slope geometry parameters and hydrologic

conditions. The resulting susceptibility map provided engineers with a continuous measure of the relative stability of rock slopes along the length of the North and South Tongass highways.

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**CERTIFICATES / QUALIFICATIONS**

Qualification	2020	North Slope Training Course
Qualification	2012	Soils and Foundations Workshop FHWA-NHI
Certification	2003	HAZWOPER