



Trevor Contreras, L.E.G.

Mapping Geologist

Trevor is a Licensed Engineering Geologist with the Geologic Mapping group, where he makes geologic maps in the foothills of the Cascade Range. He has experience mapping and studying landslides before and after wildfires, responding to landslide emergencies, and helping communities understand and mitigate landslide hazards. He has worked for WGS since 2006 in various positions, and in the Forest Regulations Division helping foresters understand landslides and evaluate timber harvest proposals. Prior to working for the Survey, he worked for the Washington Department of Ecology regulating well drilling and water well construction.



Collecting tree ring samples for establishment and fire history on an alluvial fan.

Job Responsibilities

Mapping the geology along the Cascade foothills, including the White River fault and areas impacted by lahars from Mount Rainier along the White River. Assisting the post-wildfire team to help communities mitigate post-wildfire debris flow hazards.

Professional Interests

Puget Lowland glacial stratigraphy, active tectonics, post-wildfire debris flows, PNW tephras, and dendrochronology. Communicating with the public about geologic hazards, promoting geology as a career to students, and showcasing the great work we do at WGS.

Skills

Field mapping of bedrock and glacial deposits, utilizing various geochronological techniques, evaluating landslides and potentially unstable slopes, using tree-ring data to date geologic events, geophysical techniques, operator for the WGS motorboat, and ArcGIS.

Professional Experience

- Geologist, Qualified Technical Expert at evaluating unstable slopes and timber harvests, WA DNR Forest Practices Division, Olympia, WA
- Geologist, geologic mapping in the tectonically active glaciated Puget Lowland, WGS, Olympia, WA
- Hydrogeologist, well construction, WA Dept. of Ecology, Bellevue, WA

Education

- M.S. Geology, Focused on groundwater and geophysics, University of Oregon, Eugene, OR.
- B.S. Geology, University of Oregon, Eugene, OR.

Personal Interests

Stone sculpting, fossil collecting, and tinkering.