
Staff Geochemist/Hydrogeologist

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| Expertise | Subsurface Mapping, Well Design and Installation, Groundwater Contaminant/Tracer Delineation, <i>ArcGIS</i> , <i>Surfer</i> , <i>MATLAB</i> , <i>Python</i> , Geochemical Analysis and Characterization |
| Education | M.S. (Earth, Environmental, and Physical Sciences), 2023 Wichita State University, Wichita, Kansas, USA B.S. (Geology), 2021 Wichita State University, Wichita, Kansas, USA B.S. (Physics), 2020 Wichita State University, Wichita, Kansas, USA |
| Registration | I.G. (Intern Geologist) |
| Professional Affiliations | Member: Geological Society of America |
| Honors | Wichita State University, Summa Cum Laude Wichita State University, Dean’s Honor Roll (2016–2023) Rosalee and Alvin Sarachek Award for Scholarly Excellence in Natural Sciences Finalist (2020–2021) |

Professional Experience

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| 2024 – Present | ITASCA Denver, Lakewood, Colorado Staff Geochemist/Hydrogeologist |
| 2023–2024 | Universal Engineering Sciences, Wichita, Kansas Staff Geologist |
| 2022–2023 | Kansas Corporation Commission, Wichita, Kansas Intern Geologist |

Project Experience

Research in Thiosulfate Leaching: Conducted thesis research comparing thiosulfate solutions as replacements to cyanidation in the leaching of low-grade gold ores. Research included geochemical characterization of low-grade gold ore, as well as leaching using a variety of thiosulfate solutions to compare with cyanide solutions in the effectiveness of leaching by the dissolved constituents in the leachate.

Mapping for State Agency: Implemented well log data across county-scale maps to develop modern bedrock and subsurface maps and cross sections. Conducted groundwater tracer and contaminant sampling and mapping for yearly technical reports and project presentations.

Field Supervisor: Served as field supervisor for groundwater sampling using various methods and techniques. Experience working with a variety of drill rigs, including rotary, hollow-stem, and sonic. Installed monitoring wells and remedial instrumentation for groundwater contamination. Conducted geotechnical investigation and lab testing.