



Practice Leader
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Zach is a Practice Leader in August Mack Environmental, Inc.'s Indiana office and has over nine years of environmental consulting experience. He is a Licensed Professional Geologist (LPG) with professional experience and technical expertise in Indiana Department of Environmental Management (IDEM) state cleanup, voluntary remediation, Leaking Underground Storage Tank (LUST), and Brownfields programs. Zach has knowledge of residential, commercial, and industrial site assessments, site investigations, and remediation work with petroleum, metals, and chlorinated solvent subsurface impacts. He has managed dozens of projects with surface soil, subsurface soil, groundwater, and/or vapor impacts, leading to sampling/evaluating these media, remedial evaluation/design/installation, risk analysis, and site closure. Additionally, Zach has managed healthcare construction projects which included underground storage tank (UST) removal, above ground storage tank (AST) installation, and brine system installation.

Project Experience

- Investigated dozens of sites to determine the nature and extent of contamination in surface/subsurface soil, sediment, groundwater, surface water, and air.
- Evaluated, installed, and implemented source-area remediation. Remedial approaches included excavation, electrical resistance heating (ERH), chemical injections, and the use of institutional controls such as Environmental Restrictive Covenants (ERCs).
- Investigated numerous sites for vapor intrusion (VI). Tasks included access negotiations, sub-slab port installation/sampling, exterior soil gas sampling, preferential pathway sampling, data evaluation, mitigation design/installation/operation, and confirmatory sampling.
- Underground Storage Tank (UST) removal/closure.
- Aboveground Storage Tank (AST) system design, permitting, and installation.

Education & Certifications

- B.S., Geology, Indiana University - Purdue University Fort Wayne
- 40-Hour Hazardous Waste Site Operations (HAZWOPER) Training, OSHA and current 8-hour refresher
- Licensed Professional Geologist – Indiana
- UST Decommissioning License

Expertise

- Geologic and Hydrogeologic Investigations
- Soil, Groundwater, and Air Sampling
- Risk Based Closure
- Vapor Intrusion
- Remedial Construction – Soil Excavation and Disposal, UST Removal, and AST Installation.

Professional Experience

August Mack Environmental, Inc.
Practice Leader
2022-Present

Senior Development Services Manager
2012-2022

Project Manager
2018-2021

Staff Geologist
2015-2018

Field Geologist
2012-2015