



# RAEHEL DAVIS

GEOLOGICAL ENGINEER

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👤: GeoLogic LLC

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## EDUCATION

## REGISTRATIONS & AFFILIATIONS

**B.S. Geological Engineering:** University of Mississippi

**Association of Environmental and Engineering Geologists:** Member

## CERTIFICATIONS & TRAINING

**MSHA** Part 48(b) Surface Miner Training (24 hours)

**OSHA** HAZWOPER Training (40 hours)

**OSHA** Construction Safety & Health Training (10 hours)

**GSWCC** Stormwater Training Level 1B: Advanced Fundamentals

**GSWCC** Level 1B Certified Inspector

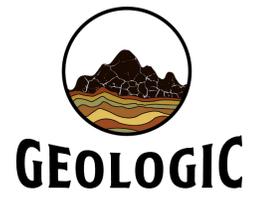
**VALKYRIES AUSTERE** Tactical First Aid / Wilderness Medicine / Active Shooter Response  
CPR / AED / Advanced Bleeding Control Certification

**SMITH SYSTEM** Driver Training

## PROFESSIONAL EXPERIENCE

Ms. Davis began her professional career in February 2018 and has since been involved in numerous geotechnical projects across the southeast United States. Raechel is currently working on becoming a Registered Engineer in Training (EIT) in Georgia. During her three years in the industry, Raechel has been exposed to a wide range of experiences. Her experience has included performing percolation and infiltration testing, overseeing drilling of soils using mud rotary, hollow stem auger and cone penetrometer testing rigs, classifying soils in both lab and field settings, rock logging, and overseeing large-scale controlled blasting. She also has experience with lateral and axial pile analysis using Ensoft Inc. software from her time in the geotechnical engineering sector.

Ms. Davis has experience in preparing permit applications for surface mining and quarry operations which include surface mine permit applications, NPDES Permits, Air Quality Permits, etc. She also has experience in completing dam inspections throughout north and central Georgia. She has experience carrying out evaluation and testing of multiple dual phase extraction systems, Multi Phase Extraction Events and Phase 1 environmental site assessments. Recently, she has been able to begin groundwater contamination testing which includes Monitoring Well Development and Groundwater Monitoring.



## WORK EXPERIENCE

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### **HICKORY PLANTATION - PLANNED AGGREGATE QUARRY**

Responsibilities included conducting a preliminary site evaluation using air rotary drilling, selecting boring locations in the field, supervising drilling, recording depth to bedrock and preparing field data to present to the client. Additional responsibilities included the delegation of responsibilities for NQ rock coring to our geology department and coordinating boring locations based on air track data. Prior to completing the geological report using this rock core data, responsibilities included completing mining permit applications and running slope stability analysis on the intended quarry pit using GeoStudio.

### **Emory University Health Science Research Building- Geotechnical Evaluation and Controlled Blasting Oversight**

Responsibilities included conducting a preliminary site evaluation, marking soil test boring locations and 350 air rotary drilling locations on 5x5 grid. Additional responsibilities included calling in utilities for both public and private lines that may be present within the site and overseeing all drilling procedures on site with the coordination of other members of the team. Other responsibilities included percolation testing and temporary well installation to monitor the change in groundwater for 2, 4, and 6 weeks prior to placement. After recording depth to bedrock during drilling activities, responsibilities included preparing field data to present to the client and completing a geotechnical evaluation of the site. Once the geotechnical report was submitted and pre-construction began, tasks included the oversight of drilling/blasting procedures and presenting the recording depths to top of rock to the onsite contractor.