



BENJAMIN BLACK, PE, PG

PRINCIPAL GEOLOGICAL ENGINEER

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👤 : GeoLogic LLC

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EDUCATION

B.S. Geology: Eastern Michigan University, Ypsilanti, MI

M.S. Geological Engineering: University of Idaho, Moscow, ID

Certificate, Applied Geotechnics: University of Idaho, Moscow, ID

REGISTRATIONS

PROFESSIONAL ENGINEER

Georgia PE No. 044678 (Active)

Kentucky PE (Pending Approval)

Mississippi PE No. 30843 (Active)

North Carolina PE No. 050385 (Active)

South Carolina PE No. 38339 (Active)

Virginia PE No. 62705 (Active)

PROFESSIONAL GEOLOGIST

Alabama PG No. 1557 (Active)

Georgia PG001660 (Active)

Kentucky PG No. 246704 (Active)

Mississippi RPG 0675 (Active)

North Carolina PG No. 1892 (Active)

South Carolina PG No. 2313 (Active)

Tennessee PG No. 4863 (Active)

Virginia PG No. 2373 (Active)

CERTIFICATIONS & TRAINING

MSHA Part 46 Surface Miner Training (24-Hour)

MSHA Part 48(b) Underground Miner Training (24-Hour)

OSHA Construction Safety and Health Training Course (10-Hour)

OSHA HAZWOPER Training (40-Hour)

OSHA HAZWOPER Refresher Training (8-Hour)

GSWCC Level 2 Erosion and Sediment Control Plan Design

Professional Certification No. 0000087121

Georgia Department of Natural Resources Safe Dams Engineer of Record

PROFESSIONAL AFFILIATIONS

Society of Mining, Metallurgy & Exploration

Association of State Dam Safety Officials

Association of Engineering Geologists: *Chairman, Rock Mechanics Technical Group*

American Railway Engineering and Maintenance-of-Way Association: *Member, Committee 1*

Benjamin Black has twenty-four years of experience in geological, hydrogeological, and geotechnical analysis and design. He has conducted numerous quarry evaluations for both dimension stone and aggregate operations in Hart, Elbert, Jones, Lamar, Wilkes, Washington, Warren, Greene, Baldwin, Jasper, Hancock, Heard, Meriwether, Pike, Newton, and Talbot counties in Georgia, and is actively working on quarry projects throughout Georgia, Kentucky, Mississippi, North Carolina, and South Carolina. He also conducts assessments for sand pit feasibility, and is currently working on a large-scale sand pit project in Washington County, Georgia. Each of these projects presents its own set of challenges and requires significant attention to multiple aspects of the evaluation, from initial preplanning through execution of the final reporting. Mr. Black works closely with stakeholders and other subject matter experts to ensure that all projects are completed to the highest possible standard. He also provides independent technical review (ITR) of third-party geological and mineral valuation reports for compliance with Internal Revenue Service (IRS) and Security and Exchange Commission (SEC) Guidelines.

Additionally, Mr. Black has assessed, consulted on, and developed surface mine plans and permits for open-pit copper mines in Arizona, phosphate mines in Idaho, and coal tailings ponds in Kentucky. These large, complex plans include extensive analysis of the surrounding rocks for stability, bench width, slope angles, and overall pit slope angle. Mr. Black is currently working on the development of surface mine plans and permits for seven proposed aggregate quarries in Georgia and two quarries in Kentucky.

Mr. Black's field experience includes extensive geological mapping and scan line mapping in different geologic terrains, as well as significant research he has conducted in the field of rock mechanics specifically related to open pit mining and construction and design of foundations and underground structures. This research includes determination of rock mass properties related to strength, analysis of stress fields, reinforcement techniques, excavation design and materials handling, tunnel design and construction, and surveying. Mr. Black is also experienced with a wide variety of subsurface investigation methods, including geotechnical soil borings, geophysical surveys, and coring of various types of soft and hard rock.

Further, Mr. Black's expertise includes the assessment and analysis of soil and rock with application to slope stability and engineered structures, and he has been responsible for the preparation and/or review of a multitude of technical documents, plans and drawings, contract drawings, technical specifications and cost estimates. In addition, he has many years of experience providing inspection services for subsurface investigations and construction projects, and is an expert in slope stability analysis and stabilization techniques, seepage analysis, and ground-reinforcing techniques. Mr. Black previously served as the Mining Sub-discipline Leader for the geotechnical engineering discipline of a large international design firm, in which capacity he was responsible for managing the discipline technical knowledge network, the mentoring of junior staff, and the development of cutting-edge technologies for geotechnical and mining engineering.