

Michael L. Coryell | Senior Associate



EDUCATION

- University of Central Florida
 - Bachelor of Science, Civil Engineering, 1997
- University of Idaho
 - Master of Engineering, Civil Engineering, 2003

PRACTICE AREAS

- Geotechnical Engineering
- Instrumentation/Monitoring/Load Testing
- Peer Review
- Litigation Consulting
- Design

REGISTRATIONS

- Professional Engineer (Civil) in ID, MT, NC, OR, WA, and WY

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers (ASCE) - Geo-Institute (GI)

TECHNICAL COMMITTEES

- GI - Computational Geomechanics Technical Committee
- GI - Soil Properties and Modeling Technical Committee

CONTACT

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EXPERIENCE

Mike Coryell joined WJE in June 2022 with nearly two decades of experience in geotechnical engineering. His work includes the development and execution of field monitoring programs, design and review of the geotechnical elements of construction, and complex analyses involving numerical modeling and soil/structure interaction for tunnels, retaining structures, levees and impoundments, and foundations.

Mr. Coryell has completed projects involving shallow and deep building foundations, tunnels and trenchless technologies, dams and levees, retaining walls, and seismic design. He has conducted technical reviews of instrumentation plans, design drawings, geotechnical reports and calculation packages, and developed extensive knowledge of many geotechnical software packages, including FLAC3D, Shoring Suite, GeoStudio, AllPile, DeepSoil, LiquefyPro, and SHAKE.

Additionally, Mr. Coryell's career includes tenure as an intercontinental ballistic missile maintenance officer for the United States Air Force.

REPRESENTATIVE PROJECTS

Instrumentation/Monitoring/Load Testing

- WSDOT SR520 Bridge Replacement and HOV Project - Seattle, WA: Installation of vibration monitoring equipment, review of vibration monitoring data, and pre- and post-construction condition surveys for the protection of properties adjacent to pile driving activities *
- Ship Canal Water Quality Project Storage Tunnel - Seattle, WA: Planning and oversight of geotechnical explorations, development of instrumentation and monitoring plan for vibration, settlement, and groundwater levels; review of all instrumentation installation activities, monitoring data during earthwork operations *
- Southwest Water Main - Charlotte, NC: Observed drill-and-blast and conventional excavations for compliance with project specifications; review of settlement and vibration monitoring data during excavation and blasting operations *

- Marina Barrage - Singapore: Evaluation of magnitude and time dependency of settlement due to construction of a new highway tunnel near the site; review of instrumentation data to verify performance of structure during adjacent construction *

Peer Review

- Wind Creek Casino and Hotel - East Hazel Crest, IL: Third-party foundation design, plan, and specification review for code compliance and permit approval *
- City of Redmond On-Call Geotechnical Services - WA: Plan and specification review for various projects involving structural foundations, deep excavations, and slope stabilization *

Litigation Consulting

- Elliot Bay Seawall - Seattle, WA: Evaluation of design and construction sequence, root cause analysis of excessive deflection in sheet pile system, and support of city attorneys in defense of claim *
- Confidential Project - Raymond, WA: Design and construction records review for litigation related to excessive post-construction settlement *

Design

- Sound Transit E360 Design-Build Contract - Redmond, WA: Geotechnical design for elevated and grade-separated light rail trackway, station structures, and parking garage *
- Operations and Maintenance Facility - East Bellevue, WA: Design and construction monitoring of geotechnical elements of facility design for eighteen-acre site *
- Brightwater Conveyance - King and Snohomish Counties, WA: Field exploration, geotechnical design parameter development, report preparation, observation, and instrumentation data review during construction; litigation support for bored tunnel construction *
- Tingey Street Interceptor Sewer - Washington, D.C.: Numerical analysis to quantify impact of new sewer construction on existing century-old brick sewer *

* Indicates with previous firm