

Sonia A. Buckmaster | Senior Technician



EDUCATION

- Colorado School of Mines
 - Bachelor of Science, Engineering, Civil Specialty, 2003
- University of Colorado at Boulder
 - Master of Science, Civil Engineering, Structures Specialty, 2006

PRACTICE AREAS

- Construction Observation Services
- Difficult Access Inspections
- Expansive Soils
- Fire Damage Investigation
- Preconstruction Surveys
- Roofing and Waterproofing
- Structural Evaluation

CONTACT

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EXPERIENCE

Sonia Buckmaster has experience in the evaluation and monitoring of structures affected by expansive soil. She has also performed construction observation services and building condition assessments. Buckmaster has been involved in the preparation of contract documents for both repair and new construction projects, involving parking garages, residential homes, and commercial buildings.

While completing her master's degree at the University of Colorado, Ms. Buckmaster studied various techniques for sensor monitoring of temperatures, strains, deflections, and accelerations of existing structures. Her research also considered optimizing sensor locations and overall system costs.

Prior to joining WJE, Ms. Buckmaster worked for Parsons Engineering, where she coordinated soil sampling and maintained a database of soil test results.

REPRESENTATIVE PROJECTS

Construction Observation Services

- Gateway Station - Golden, CO: Demolition of existing masonry building and evaluation of adjoining building stability
- Village Plaza Lofts - Greenwood Village, CO: Peer review and field observations during construction

Difficult Access Inspections

- Denver Place Plaza Tower - CO: Evaluation of curtain wall
- The Villas Parkmerced - San Francisco, CA: Condition assessment of cast-in-place concrete building facade

Expansive Soils

- Residential Structures - Denver Metropolitan Area, CO: Evaluation and monitoring of foundation movements and repair recommendations

Preconstruction Surveys

- East Meadow Drive - Vail, CO: Interior and exterior condition survey of several buildings within close proximity to a utility improvement project
- Residences at the Little Nell - Aspen, CO: Survey of existing condition of private residences and condominiums prior to digging a large-scale excavation and beginning new construction of a neighboring lot

Structural Evaluation

- Big Dig - Boston, MA: Structural safety inspections of one of the nation's largest infrastructure projects
- Nationwide Retail Chain - CA and CO: Investigation and inspection of steel roof members to determine deficiencies
- Olathe Senior Apartments - Olathe, KS: Investigation into the extent of fire damage to a timber building under construction