Top Ten Deficiencies: Construction Materials and Geotech Testing Labs

Compiled by A2LA
Criteria used

- Only ISO/IEC 17025 accredited or applicant labs considered

- From the time period between January 1 and August 1, 2013

- Includes data for deficiencies against the clauses of ISO/IEC 17025, relevant test methods and specific program documents (e.g. E329)
Tenth Most Cited Deficiency

- **CMT**
  - **PT Policy**
    - Lack of participation
    - Lack of corrective action responses

- **Geotech**
  - ISO/IEC 17025, 4.13
    - Control of Records
      - Complete records for repeatability of the test
      - Quality system *and* technical
      - Record traceability
Ninth Most Cited Deficiency

- **CMT**
  - Specific Program documents (ASTM E329)
    - Labs don’t give these program documents enough attention

- **Geotech**
  - Specific Program documents (ASTM E329)
  - Labs don’t give these program documents enough attention
Eighth Most Cited Deficiency

- **CMT**
  - ISO/IEC 17025, section 5.5, *Equipment*
  - Equipment missing or not appropriate
  - Maintenance records problems
    - Calibration
    - Improperly performed

- **Geotech**
  - ISO/IEC 17025, section 4.14, *Internal audits*
  - No schedule
  - Inadequate procedure
  - Independence/qualifications of auditors
  - Completeness (quality and technical)
Seventh Most Cited Deficiency

- CMT
  - ISO/IEC 17025, section 5.10, Reporting the results
  - Reported results inadequately reviewed before release

- Geotech
  - ISO/IEC 17025, section 5.6 Measurement Traceability
  - Using unaccredited calibration laboratories
  - Improper reference standards for in-house calibrations
Sixth Most Cited Deficiency

- **CMT**
  - ISO/IEC 17025, section 5.2, Personnel
    - Proper certifications lacking
    - Training records lacking

- **Geotech**
  - ISO/IEC 17025, section 5.6 Measurement Traceability
    - Using unaccredited calibration laboratories
    - Improper reference standards for in-house calibrations
Fifth Most Cited Deficiency

- **CMT**
  - ISO/IEC 17025, section 4.14, *Internal Audits*
  - No schedule
  - Inadequate procedure
  - Independence/qualifications of auditors
  - Completeness (quality and technical)

- **Geotech**
  - ISO/IEC 17025, section 5.2, *Personnel*
  - Proper certifications lacking
  - Training records lacking
Fourth Most Cited Deficiency

- **CMT**
  - ISO/IEC 17025, section 5.6 Measurement Traceability
  - Using unaccredited calibration laboratories
  - Improper reference standards for in-house calibrations

- **Geotech**
  - ISO/IEC 17025, section 5.5, Equipment
  - Equipment missing or not appropriate
  - Maintenance records problems
    - Calibration
    - Improperly performed
Third Most Cited Deficiency

- **CMT**
  - ISO/IEC 17025, section 4.6, *Purchasing services and supplies*
  - Details in purchase orders lacking
  - Supplies/consumables not verified before use
  - Suppliers not evaluated

- **Geotech**
  - ISO/IEC 17025, section 4.6, *Purchasing services and supplies*
  - Details in purchase orders lacking
  - Supplies/consumables not verified before use
  - Suppliers not evaluated
Second Most Cited Deficiency

- **CMT**
  - ISO/IEC 17025, section 4.3, Document Control
  - Meant for internal and external documents
  - Master list not current
  - Obsolete document in use

- **Geotech**
  - ISO/IEC 17025, section 4.3, Document Control
  - Meant for internal and external documents
  - Master list not current
  - Obsolete document in use
#1 Most Cited Deficiency

- **CMT**
  - *Specific deficiencies* (those cited against test methods)
  - Proper attention not given to details in the test methods
  - Improperly trained technicians

- **Geotech**
  - *Specific deficiencies* (those cited against test methods)
  - Proper attention not given to details in the test methods
  - Improperly trained technicians