

MATERIALS TESTING SERVICES

LAMBERT ST. LOUIS AIRPORT W-1W EXPANSION

ST. LOUIS, MISSOURI



Location: *Bridgeton, Missouri*

Owner/Client: *City of St. Louis
Board of Public Service*

Contact: *Mr. James Rykard
SPK Team
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Project Manager: *John A. Baker, P.E.*

Date: *2001 - Present*

Project Description: Geotechnology is currently providing comprehensive materials testing services for the quality assurance of the construction projects located in work areas of the \$2.2 billion Airport Expansion Program. Work being performed under this contract is described as follows:

- Providing full-time/part-time fill control and compaction testing of soil, aggregate and base courses. Soil testing services include: In place soil density using nuclear method; maximum density – optimum moisture content determinations; index properties – Atterberg Limits, moisture content, soil classification; grain size analysis – sieves and hydrometer; and borrow site inspection and material evaluation.
- Providing full-time/part-time field and laboratory concrete testing services. Assigned tasks include: Field testing of concrete – slump, air content and preparation of strength specimens; compressive strength testing of cylinders, cubes and cores; flexural strength testing of beams; sampling aggregates; Absorption and specific gravity of aggregate; concrete mix design; concrete plant inspections and certifications; concrete core samples; Swiss hammer tests; aggregate gradation test for concrete; Los Angeles abrasion test for aggregate; sampling, testing and approval of concrete aggregates; and pick up of samples for laboratory storage and testing.
- Providing full-time/part-time field and laboratory asphalt testing services. Assigned tasks include: Asphalt mix designs; Marshall stability test, density test, flow test; job mix formula for asphalt; Superpave technology; compaction control; coring hot bin pulls/gradation; extraction/gradation; sampling, testing and approval of asphaltic concrete aggregates; and asphalt content by ignition.
- Providing full-time/part-time field and laboratory steel testing services. Assigned tasks include: tensile strength of reinforcing steel, bolts and studs; field test for epoxy coated rebar; weld procedure review and welder certification; and non-destructive testing of structural steel components.

RELEVANT EXPERIENCE:

- Construction Quality Assurance testing
- Geotechnical laboratory testing to support field testing activities
- Soil, rock and rockfill field testing
- Construction materials testing