

Terris L. Cates, PE, PLS
Principal



EDUCATION

M.S. Civil Engineering, B.S. Civil Engineering, B.S. Physics
University of Missouri-Rolla - Rolla, Missouri

REGISTRATION

Registered PE, Missouri and Oklahoma
No. E-22268; No. 24359

Registered PLS, State of Missouri
PLS-2008000715

CERTIFICATION

- Deputy County Surveyor, Phelps County
- "A" Certified Wastewater Operator, A-3125
- Asbestos Inspector
- Lead Inspector
- Nuclear Densometer Certified
- Monitoring Well Drilling
- KTA Structural Steel Coatings
- OSHA 30-Hour General Industry Training

AFFILIATIONS

- Member, Missouri Rural Water Association
- Member, American Water Works Association
- Member, American Society of Civil Engineers
- Member, Water Environment Federation
- Member, Missouri Society of Professional Surveyors
- Member, Missouri Association of County Surveyors

PROFESSIONAL EXPERIENCE

Phelps County Land Surveyor
January 2017 to present

Principal

Integrity Engineering, Inc. - Rolla, Missouri

January 1996 to Present

- Conducts and oversees public land surveys and completed plats. Actively uses RTK-GPS, Robotic, Total Station and Level surveying instruments. Oversees construction and topographic surveys.
- Performs engineering consulting, analysis, evaluations, reports, designs, construction administration, project development, management, marketing and servicing of clients.
- Has extensive experience in environmental sampling of water, air and soils, remediation of hazardous waste spills, industrial air emissions inventory, industrial baseline monitoring, site characterizations, mapping; surveying, industrial processes, subdivision design; structural, mechanical and civil design; potable water wells and distribution systems, water tower design and repainting, wastewater treatment and collection facility improvements, streets, storm drainage, industrial parks, and technical witnessing. These projects have included writing engineering reports, performing designs, assisting owners in obtaining financing and in providing construction administration and inspection services.

- Performs environmental assessments, indoor air quality evaluations, asbestos and lead inspections and underground storage tank closures.
- Manages materials testing laboratory, i.e. soils, aggregate and concrete testing.
- Oversees operation and maintenance of various municipal wastewater treatment plants.

Project Manager

Stack & Associates, Inc. - St. James, Missouri

1991 to 1995

- Managed office staff.
- Marketed municipalities, commercial and industrial entities and contractors.
- Conducted and assisted in public land surveying field work and drafting survey plats.
- Conducted engineering topographic and construction layout surveying.
- Designed public infrastructure systems such as water, wastewater, storm water, street, sidewalk and parking lot systems.
- Performed structural analysis for residential and commercial building facilities.
- Performed environmental assessments, indoor air quality evaluations, asbestos inspections and abatement projects and underground storage tank closures.
- Managed materials testing laboratory, i.e. soils, aggregate and concrete testing.

Environmental Engineer, GS-11

U.S. Bureau of Mines, Rolla Research Center - Rolla, Missouri

1990 to 1991

- Was responsible to develop and manage hazardous waste and safety programs for research center.
- Wrote program documents such as hazardous waste handbook, a chemical hygiene plan for the laboratories and an emergency occupation plan.
- Inventoried and identified the hazardous waste streams for the facility and supervised the disposal of these materials by manifesting the wastes to TS&D facilities or by selling the materials as raw products to interested industries.
- Adhered to RCRA and state regulations for labeling, storing and disposal of materials.
- Met with researchers to review procedures and chemicals to minimize waste streams.
- Provided training in safety procedures and RCRA compliance issues to staff once per month.
- Conducted noise level evaluations in the laboratory and project areas.

Environmental Engineer/Supervisor

Missouri Department of Natural Resources, WPCP - Jefferson City, Missouri

1984 to 1990

- Supervised the review and approval of engineering reports, plans, specifications, construction and operation permits, A/E agreements and change orders for wastewater and storm water treatment facilities.
- Was responsible for the municipal grant projects in the Jefferson City, Poplar Bluff and Springfield regions, which covered 63 counties in the state.

Engineer and Project Inspector

Missouri Engineering Corporation - Rolla, Missouri

1982 to 1983

- Was responsible for construction inspection of water lines, water towers, wastewater treatment plants and sewers.
- Assisted in writing and editing design proposals and O & M manuals.
- Brought wastewater facilities online and trained operators.