

Construction Oversight/Testing Services

Sadat Associates, Inc., a Small Business Enterprise, offers field inspection/construction oversight, instrumentation monitoring, field testing and laboratory testing services for a variety of projects. Our services include:

Field Inspection and Construction Oversight (Quality Control/Quality Assurance)

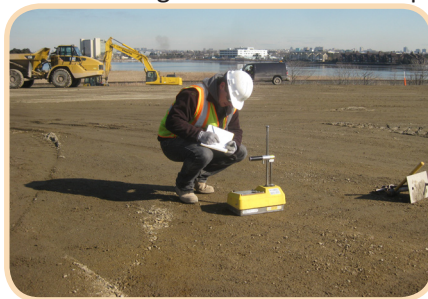
- Inspection of drilling work and test pit excavations for subsurface investigation programs.
- Inspection of installation of monitoring instrumentation including wells, piezometers, inclinometers, extensometers, and settlement plates.
- Implementation of programs for data collection, data interpretation and reporting for different monitoring instrumentation.
- Earthwork inspection for placement and compaction of different soils.
- Inspection of installation of different geosynthetics for pond lining and capping of contaminated sites/landfills.
- Inspection of construction of cutoff walls, e.g., slurry walls and deep soil mixing.
- Inspection of sheet pile driving.
- Inspection of pile driving and pile load testing.
- Inspection of installation/construction of stormwater systems, pipes, basins and pump stations.
- Inspection of installation/construction of methane gas ventilation systems.
- Oversight of construction of concrete elements, e.g., foundations and slabs.

Field Testing

- In-situ density testing utilizing the Nuclear Gauge.
- In-situ soil infiltration rate testing utilizing Double Ring Infiltrometer, Percolation Test, Flood Basin Test, etc.

Laboratory Testing

- Grain Size Distribution (Sieve & Hydrometer)
- Atterberg Limits
- Compaction (Modified/Standard Proctor)
- Triaxial (UU & CU)
- Unconfined Compressive Strength
- Consolidation
- Soil Permeability
- Moisture Content
- Organic Content
- Specific Gravity



Dr. Amira Fahim, P.E., is Vice President for Geotechnical Services at Sadat Associates, Inc. She is responsible for all of the geotechnical aspects of SAI's engineering projects, including multistory buildings, bridges, highways, earth dams, brownfields redevelopment, landfill liners and cover systems, and transmission towers.

Dr. Fahim is also responsible for Construction Quality Assurance/Quality Control services at construction sites.

Dr. Fahim has a strong background in geotechnical engineering and its applications in the transportation and environmental fields. She has been employed by universities, research institutes and consulting firms, which provided her with the opportunity to combine theory with practice.

SAI also has a fully-trained, highly qualified staff whose duties include performing field inspection and testing, construction oversight and monitoring of different instrumentation.

In addition, SAI has an in-house geotechnical laboratory equipped with the most recent technology. SAI laboratory personnel are trained to perform all testing according to ASTM and AASHTO Standards.

Sadat Associates, Inc. (SAI) has been successfully meeting client needs for more than 25 years. Our expert project teams provide exceptional service based on in depth knowledge, experience, advanced technologies, and innovative thinking. We work closely with our clients to devise and implement cost effective, cutting edge solutions to both straightforward and complex issues.

Core Services

- Geotechnical Engineering
- Hydrogeology/Hydrology
- Geochemistry
- Environmental Engineering
- GIS/Asset Management
- Civil and Site Engineering
- Project Management
- Stormwater Management
- Regulatory Strategies
- Solid Waste Management/Landfill Design
- Brownfields Redevelopment
- Expert Testimony
- Construction Quality Control/Quality Assurance
- PA/SI/RI
- Remedial Design
- Land Use Issues
- Permitting

Sadat Associates, Inc.
1545 Lambertson Road - P.O. Box 4129
Trenton, NJ 08611
Phone: 609-826-9600
Fax: 609-826-9601
www.sadat.com



Delaware River as seen from SAI

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Engineering and Environmental Science

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