
SOIL-MAT ENGINEERS & CONSULTANTS LTD.

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CORPORATE PROFILE

SOIL-MAT ENGINEERS & CONSULTANTS LTD. [SOIL-MAT ENGINEERS] is a Canadian Consulting Engineering firm owned by its senior staff, serving private developers, industry, municipal, provincial and federal governments, contractors, and private home owners. The range of expertise offered by Soil-Mat Engineers includes geotechnical and environmental engineering, construction quality control and materials testing. Based in Hamilton, Ontario Soil-Mat is well positioned to provide services to projects from Niagara to Toronto, and throughout southern Ontario [including Windsor, Sarnia, Strathroy, St. Thomas, Markham, Vaughan, Oshawa, etc.]. The firm has even been involved in projects as far afield as Sudbury, Sault Ste Marie, Timmins, Ottawa, Regina [Saskatchewan], Pangnirtung [Nunavut] and Mali in Africa.

Soil-Mat provides the expertise and know-how of an engineering team steeped in decades of supplying professional consulting services to domestic and international clientele. With a driving commitment to a high standard of quality service and value to all of our clients, Soil-Mat Engineers are ready to meet the technical, schedule and budget requirements of any project. Our professional team is experienced in working with municipal and government agencies including Planning and Building Officials, Ministry of the Environment and local Conservation Authorities.

Soil-Mat Engineers has been in operation in Hamilton since 1992. Founded by Danny Schebesch, P.Eng., John Monkman, P.Eng., and Gil Adams Soil-Mat Engineers established itself as a well-respected firm within the development and construction sectors. In 2007 the senior staff, all long time employees, joined John Monkman as owners of the firm. Stephen Sears, P.Eng. [Designated Consulting Engineer] and Ian Shaw, P.Eng. in the engineering section, Keith Gleadall managing the environmental science section and Jim Thomson managing the team of construction quality control technicians. With John Monkman's retirement in late 2014 the remaining partners continue to direct the firm on the same core values on which it was founded, providing a

high standard of service and value to all of our client's projects. Through this commitment and dedication of our team of roughly 25 engineers, environmental scientists, field and laboratory technicians, and administrative support staff, the firm has enjoyed consistent growth for several years.

The company commenced operation on June 15, 1992 and has undertaken over 7,500 projects since its inception. The firm and all professional staff are in good standing with Professional Engineers Ontario and the Association of Professional Engineers & Geoscientists of Saskatchewan. The company has maintained a current PEO Certificate of Authorisation since it was granted on April 28, 1992 and APEGS Certificate of Authorisation since it was granted on March 20, 2015. The firm's office and laboratory facilities are located at 130 Lancing Drive in Hamilton and are well located to service projects throughout Hamilton, Halton, Niagara, Brant, the western GTA and elsewhere in southern Ontario.

Soil-Mat Engineers maintain a Level 1 CCIL Certified concrete testing laboratory and have CCIL Certified concrete testing technicians on staff. We have successfully participated in the MTO concrete proficiency correlation programs for regular and high strength concrete, as well as rapid chloride penetration [RCP] testing for the past several years. In addition the firm maintains a full service soils and aggregate testing laboratory. Our testing services include many specialised procedures, such as hydraulic conductivity, rapid chloride penetration testing of concrete, percolation time testing for septic bed design, consolidation testing, triaxial testing and others.

Soil-Mat Engineers offers an experienced staff of Professional Engineers, geoscientists, and technicians to meet the needs of any project. Currently our technical staff includes three licensed Professional Engineers [one of which is also a designated Consulting Engineer], three Engineers in Training, two environmental scientists, and ten field and laboratory technicians. All of the firm's work is supported by a dedicated group of administrative support staff.

COMPANY SERVICES

GEOTECHNICAL ENGINEERING

- Site Geotechnical Investigations
- Pavement Rehabilitation Studies
- Geotechnical Design Consultation
- Slope Stability Assessments
- Hydrogeologic Studies
- Forensic Investigations

ENVIRONMENTAL ENGINEERING

- Phase I and II Environmental Site Assessments [ESA]
- Site Remediation Programs
- Record of Site Condition [RSC]
- Designated Substance Surveys [DSS]
- Water Well Studies
- Decommissioning of underground storage tanks
- Environmental testing of soils for off site transport and disposal

CONSTRUCTION QUALITY CONTROL

- Field evaluation of construction activities for earth works, engineered fill, subgrade preparation, roadway construction, site servicing, slope stabilisation, etc.
- In place compaction testing of soil and asphalt
- Field and laboratory testing of soils and concrete
- Structural Steel Evaluations
- Building Science Evaluations [water proofing, insulation, roofing, fireproofing, etc.]

LABORATORY TESTING OF CONSTRUCTION MATERIALS

- Soils Testing: Grain Size Analyses; Sieve and Hydrometer
Proctor Testing
Atterberg Limits Testing
Hydraulic Conductivity [Permeability]
Dual Ring Infiltrometer Testing
Consolidation Testing
Triaxial Testing

- Concrete Testing: CCIL Level 1 Concrete Testing Laboratory
Compressive Strength Testing of Concrete, Mortar, Grout and Rock
Rapid Chloride Penetration
Linear Shrinkage
Slab Moisture Emmission and Relative Humidity Testing