

LVM inc.

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The Company

A specialist in the fields of geotechnical, environmental, and materials engineering, LVM inc. has been established for over 50 years and operates in 45 cities throughout Canada.

With over 1,500 employees, LVM inc. provides specialized consulting engineering services, across Canada and internationally, to private and public sector clients. We offer the full range of geotechnical, environmental, and pavement engineering services, construction materials inspection and testing, roofing and building science, and hydrogeology.

LVM's management system meets all ISO 9001:2008 requirements for Quality Management Systems. LVM is also OHSAS 18001 Certified which attests to the quality of our OHAS system.

Fields of Specialization

Geotechnical Engineering

- Bearing capacity determination
- Geotechnical design of shallow and deep foundations
- Slope investigations/stability analyses
- Soil and rock support structure design
- Structural deformation expertise related to geotechnical behaviour of soils and rocks
- Geological and pedological site evaluations
- Dam stability assessments
- Retaining wall designs
- Geophysical (seismic) surveys
- Thermal & electrical resistivity testing

Roofing and Waterproofing

- Drawings and specifications preparation
- Roof Management
- Work inspection and quality control
- Preventive maintenance programs

Pavement Engineering and Management

- Pavement evaluations
- Pavement performance monitoring and asset management
- Pavement design (flexible and rigid) for highways, airports, municipal and commercial pavements
- Preparation of prioritized maintenance and rehabilitation plans (roads, airports, parking lots)
- Pavement rehabilitation investigations
- Life cycle cost analysis of rehabilitation options

Geo-Environment

- Environmental site assessment and characterization
- Records of Site Condition
- Remediation of contaminated sites
- Environmental monitoring
- Supervision of site decontamination
- Environmental hydrogeology and water resource management
- Sediment management
- Asbestos management
- Geophysical and vibration studies
- Toxicological and ecotoxicological risk analyses

Hydrogeology

- Hydrogeology studies for rural development, watershed studies, and groundwater management
- Groundwater supply and assessment
- Well surveys
- Well designs and specifications
- Construction Dewatering
- Permit to Take Water (PTTW)
- Category 0, 1 and 2 plus additional tests for concrete

Construction Materials Testing

- Quality control/quality assurance inspection and testing of materials and construction
- Hot-mix asphalt compaction and monitoring

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- Quality control/quality assurance inspection and testing of materials and construction
- Hot-mix asphalt compaction and monitoring
- CCIL Certified Labs: Type A, B and E for asphalt, Type C and D for soils and aggregates,
- Construction inspection and administration
- Earthworks monitoring and compaction testing
- Footing, caisson, and pile inspections
- Superpave and Marshall (PGAC, CIREAM, CIR and FDR) asphalt mix designs
- Performance graded asphalt cement (PGAC) and emulsion testing
- Air voids analysis in hardened concrete
- Rapid chloride permeability
- Standard and customized laboratory tests
- Pit and quarry evaluations
- Concrete structure evaluation and rehabilitation expertise
- Construction materials selection

Sectors of Activity

Cities and Municipalities:

infrastructure, wastewater treatment plants, water treatment plants, waterworks and sewer systems, water towers, and pavements.

Buildings: private, commercial, and institutional. Environment: soils and groundwater. Energy: generation, transmission and distribution.

Transportation: infrastructure and public transportation Industry: metallurgy, manufacturing, chemical petrochemistry, and mining

Telecommunications:

infrastructure, towers, underground cables, anchors