

Advance Testing Ltd is a locally owned materials testing company operating out of the Lower Mainland of BC since 1997. John Ross, General Manager has been in this industry for over 35 years.

We are dedicated to providing excellence in the field of material testing for the construction industry. Our professional staff works closely with our clients' field personnel to achieve the required results in a timely manner.

Advance Testing Ltd. is a member of the Canadian Council of Independent Laboratories, (CCIL). We are certified by CCIL as a concrete, asphalt and aggregate testing facility, both in the field and in the laboratory.

Advance Testing has recently completed all materials testing for the South Fraser Perimeter Road (now Highway 17) project, a 1.25 billion dollar highways project.

## **Services**

### • Soils Testing Services

- In-Place Density Testing by Nuclear Method
- Moisture-Density Relationships
- Grain Size including sieve and hydrometer analysis
- Benkelman Beam Testing
- Specific Gravity of Fine & Coarse Aggregates
- Atterberg Limits
- Soundness Testing
- Micro-Deval – aggregate durability testing
- Permeability
- Shear Testing

### • Concrete Testing Services

- Concrete Spot Test (Includes: slump, air & temperature test, cast cylinders and reporting)
- Concrete Full Time Inspection
- Compressive Strength of Concrete
- Flexural Strength Beams (i.e. for tilt-up construction, airport runways)
- Grout Testing
- Shotcrete Testing
- Concrete Masonry Testing

### • Asphalt Testing Services

- Field Compaction Control during placement with Nuclear Gauge
- Coring for thickness & density
- Complete laboratory analysis of bituminous mix, including
  - Marshall Method
  - Super Pave gyratory compaction
  - MTRD (Maximum Theoretical Relative Density)
  - Asphalt Content
  - Air Voids
  - VMA Asphalt Content
  - Stability (Marshall)
  - Flow (Marshall)

### • Geotechnical Service, specializing in:

- Retaining wall design
- Building foundation design
- Road design
- Pile Driving analysis