

Our services cover quality control plans, aggregate and asphalt Hot Mix production quality control testing as outlined in the Ministry of Transportation Standard Specifications for Highway Construction. Metro's field and laboratory have been certified by the **Canadian Standards Association (CSA)**; the **National Centre for Asphalt Technology (NCAT)**; Auburn University, Alabama, USA for Superpave and Marshall Hot Mix testing; as well as the **Canadian Council of Independent Laboratories (CCIL)**.

Below is a 'sampling list' of what we do:

- Superpave & Marshall Mix Design (Incl. TSR Testing) (ASTM D4867 / D4867M-04)
- Superpave Test (SP-2) (ASTM D4013-98)
- Marshall Test (ASTM D1559-89)
- Sieve Analysis of Fine & Coarse Aggregates (ASTM C136-01)
- Penetration of Bituminous Materials (ASTM D5-97)
- Micro Deval (ASTM D6928-03)
- Resistance of Aggregates to Degradation (ASTM D3744-97)
- Angularity Test (Uncompacted Void Content of Fine Aggregate) (ASTM C1252-98)
- Unit weight of Aggregates (ASTM C29/ C29M-97)
- Soundness of Aggregates (ASTM C88-99a)
- Clay Lumps and Friable Particles (ASTM C142-97)
- Moisture Content (ASTM D1461-85)
- Specific Gravity & Absorption of Coarse and Fine Aggregate (ASTM C128/C127-99)
- Flat and Elongated Test (ASTM D4791-99)
- Percentage of Fractured Particles in Coarse Aggregate (ASTM5821-01)
- Organic Impurities (ASTM C40-99)
- Asphalt Core Testing (ASTM 5361-93)
- L. A. Abrasion (ASTM C131-03/ C535-03)
- Sand Equivalent Test (ASTM D2419-02)





ASPHALT TECHNOLOGY

- Marshall and Superpave mix designs
- Open grade asphalt and stone mastic asphalt mix designs
- Asphalt coring and pavement investigation
- Pavement evaluation, assessment and management
- Pavement evaluation using Benkelman beam and Spectral Pavement Analyser



SOILS AND AGGREGATES

- Soils compaction testing, proof rolling, CBR, percolation testing and inspection
- Laboratory testing of soils: sieve analysis, hydrometer, proctor, permeability
- Laboratory testing of aggregates: specific gravity absorption, soundness, freeze thaw
- Geotechnical investigation, soil logging, vibration and blast monitoring
- Petrographic analysis
- Alkali Aggregate Reactivity testing for Concrete Aggregate

CONCRETE TECHNOLOGY

- Concrete, RCC, SCC, shotcrete mix designs and laboratory trials
- Underwater concreting and grouting consulting
- Shotcrete consulting, inspection and testing
- Non-destructive testing: half cell surveys, elastic modulus, impact hammer, Lok testing, concrete cover and moisture testing
- Rapid Chloride Permeability Test
- Air Void



Since its establishment in 1987, **Metro Testing Laboratories Limited** (Metro) has become one of the leading materials testing and engineering services organizations in British Columbia. Metro's staff consists of over 150 professional engineers, technologists and technicians servicing British Columbia's construction industry from twelve offices and over ten mobile testing laboratories. This allows us the flexibility to service remote projects with professionalism and in accordance with **MoT, CCIL and ASTM** testing specifications.

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