

Laboratory Testing



Concrete

- CSA Category 0 Certified
- Compressive strength of concrete
- Flexural strength of concrete
- Mortar strength
- Concrete block strength and absorption



Soils/Aggregates

Geotechnical

- Gradation analysis
- Proctor moisture density
- Atterberg limits
- Permeability/conductivity
- Unconfined strength
- Consolidation test
- CBR (California Bearing Ratio)
- Organic content
- Triaxial strength



Asphalt

- CCIL Type B certified
- Marshall compliance testing
- AC content and aggregate gradation
- Physical properties (BRD, MRD, voids, stability, and flow)
- Percent compaction

Aggregates

- CCIL Type C and Type D certified
- Micro-deval abrasion
- Petrographic analysis
- Soundness
- Freeze/thaw
- Relative density
- Absorption
- Percent crushed



**Naylor
Engineering
Associates** Ltd.
CONSULTING ENGINEERS

Laboratory testing of materials provides essential information for engineering analysis. Aggregates and asphaltic concrete must meet specified physical property requirements, and concrete strength must meet specified values for structural components to perform as designed. Since all civil engineering projects begin in the ground, soil properties and the behavior of the soil are critical in the design process.