

SCOPE OF ACCREDITATION

Natural Resources Canada
CANMET-MMSL - BELLS CORNERS LABORATORY
555 Booth Street
Ottawa, ON
K1A 0G1

Accredited Laboratory No. 273
(Conforms with requirements of CAN-P-4E (ISO/IEC 17025:2005))

CONTACT: Dr. Saman Amarakone
TEL: (613) 992-3893
FAX: (613) 947-1200
EMAIL: Saman.amarakone@NRCan-RNcan.gc.ca
URL: www.nrcan-rncan.gc.ca/mms-smm/tect-tech/index-eng.htm

CLIENTS SERVED: All interested parties

FIELDS OF TESTING: Mechanical/Physical

ISSUED ON: 2010-10-26

VALID TO: 2014-07-30

ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY

Occupational Health and Safety:

Air Monitoring

CAN/CSA-M424.1	Flameproof Non-rail-bound Diesel-Powered Machines for Use in Gassy Underground Coal Mines, Clauses 4.6, 5.7 and 5.8
CAN/CSA-M424.2-M	Non-Rail-Bound Diesel-Powered Machines for Use in Non-Gassy Underground Mines, Clauses 4.5, 5.3 and 5.4
ISO 8178-1 & 4	Reciprocating Internal Combustion Engines-Exhaust Emission Measurement Part 1: Test-Bed Measurement of Gaseous and Particulate Exhaust Emissions & Part 4:

Test Cycles for Different Engine Applications
Except for: 15.2 Ammonia analysis, 15.4 Methanol
analysis and 15.5 Formaldehyde analysis
MSHA 30CFR Part 7 Approval, Exhaust Gas Monitoring, and Safety
Requirements for the Use of Diesel Powered Equipment
in Underground Coal Mines: Final Rule, Clauses 7.86 to
7.89

NON METALLIC MINERALS AND PRODUCTS

Cement and Cement Based Products:

(Composites and Types (Concrete, Mortar, etc.))

Refer to the Major Heading **Soil; Aggregates; Stone; Sand**, under the Minor heading
Stone

Soil; Aggregates; Stone; Sand:

Stone

ASTM C39	Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens
ASTM C469	Standard Test Method for Static Modulus of Elasticity and Poisson's Ratio of Concrete in Compression
ASTM C496	Standard Test Method for Splitting Tensile Strength of Cylindrical Concrete Specimens
ASTM C597	Standard Test Method for Pulse Velocity Through Concrete
ASTM D2216	Standard Test Method for Laboratory Determination of Water (Moisture) Content of Soil and Rock
ASTM D2845	Standard Test Method for Laboratory Determination of Pulse Velocities and Ultrasonic Elastic Constants of Rock
ASTM D3967	Standard Test Method for Splitting Tensile Strength of Intact Rock Core Specimens
ASTM D4543	Standard Practice for Preparing Rock Core Specimens as Cylindrical Test Specimens and Verifying Conformance and Dimensional and Shape Tolerances
ASTM D7012	Standard Test Method for Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperatures
ASTM E1237	Standard Guide for Installing Bonded Resistance Strain Gages

Notes:

ASTM: American Society of Testing Materials

CAN-P-4E (ISO/IEC 17025): General Requirements for the Competence of Testing and Calibration Laboratories (ISO/IEC 17025-2005)

ISO: International Standards Organisation

MSHA: U.S. Federal Register, Department of Labour, Mine Safety and Health Administration

S. Cross, Director, Conformity Assessment

Date: 2010-10-26

Number of Scope Listings: 14

SCC 1003-15/319

Partner File #0

Partner: None