



CANMET MINING AND MINERAL SCIENCES LABORATORIES

Canadian Certified Reference Materials



Program objectives

Recognizing the importance of having high quality standards for the traceability and validation of mineral analyses performed by the mining industry, Natural Resources Canada launched the Canadian Certified Reference Material Project (CCRMP) in 1973.

CCRMP produces certified reference materials that are used by laboratories to improve the reliability of measurements they make. CCRMP materials are well characterized Canadian ores, rocks, concentrates, tailings, soils, alloys, anodes and radioactive materials that serve as a control to verify the accuracy and precision of the instrumentation or analytical method used. These standards provide support for decisions relating to production, commodity valuation and meeting environmental regulations.

CCRMP also operates a Proficiency Testing Program for Mineral Analysis Laboratories (PTP-MAL) in cooperation with the Standards Council of Canada (SCC). PTP-MAL is a means by which a mineral analysis laboratory can assess the performance of its analytical methods independently of internal quality control. Participation is a requirement in receiving

accreditation for mineral analysis activities by SCC to ISO/IEC 17025.

Expertise

CCRMP staff applies their experience to grind, blend, bottle and characterize each material mineralogically and chemically. More than 1500 mining companies and laboratories in 105 countries have purchased 70 000 units of CCRMP materials since the program began.

About 55 international laboratories currently participate in PTP-MAL. They receive blind samples, and then provide chemical data to CCRMP for statistical analysis. A certificate is provided to participants whose results meet stringent statistical and reliability criteria

Working with us

- 100 CCRMP materials of Canadian origin
- a searchable Web-based periodic table helps clients locate materials by element of interest
- www.ccrmp.ca lists all CCRMP materials
- two proficiency-testing cycles per year on exploration grade samples

Contact Us

This research is part of CANMET-MMSL's broader plan to foster sustainable growth in Canada's mining and mineral industry. To work with us, contact

www.ccrmp.nrcan.gc.ca

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Cat. No. M39-126/1-2009 (Print)
ISBN 978-1-100-50319-6

Cat. No. M39-126/1-2009E-PDF (On-line)
ISBN 978-1-100-14058-2

Her Majesty the Queen in Right of Canada, 2009



Recycled paper