

## TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

### Scope of Accreditation

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<b>SCC File Number:</b>	151086
<b>Provider:</b>	BNQ-EL
<b>Provider File Number:</b>	55138-1
<b>Accreditation Standard(s):</b>	ISO/IEC 17025:2017: General requirements for the competence of testing and calibration laboratories
<b>Fields of Testing:</b>	Chemical/Physical
<b>Program Specialty Area:</b>	Mineral Analysis
<b>Initial Accreditation:</b>	2019-04-15
<b>Most Recent Accreditation:</b>	2024-06-07
<b>Accreditation Valid to:</b>	2027-04-15

*Remarque : La présente portée d'accréditation existe également en français, sous la forme d'un document distinct.  
Note: This scope of accreditation is also available in French as a separately issued document.*

## METALLIC ORES AND PRODUCTS

### Mineral Analysis Testing

3A-ME-SAA/ICP	Geochemical analysis of multi-elements (Ag, Cu, Pb, Zn, Fe, Ni and Co) in various mineral matrices using 3 acid digestion followed by AAS or ICP-OES
4A-ME-ICP	Geochemical analysis of multi-elements (Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Ga, Gd, Ho, In, La, Lu, Na, Nd, Ni, P, Pb, Rb, Re, Sc, Se, Sm, Sr, Tb, Th, Tl, Tm, U, V, Yb, Y, Zn) in various mineral matrices using 4 acid digestion followed by ICP-OES
BF-ME-ICP	Multi-element (Al, As, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Nb, Ni, P, Pb, Sb, Sc, Se, Sr, Ti, Tl, V, Y, Zn, Zr,) geochemical determination in various mineral substances by Lithium Tetra / Meta Borate fusion followed by ICP-OES
BF-ME-XRF	Determination of major (SiO <sub>2</sub> , TiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , MnO, MgO, CaO, K <sub>2</sub> O, Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> ) and minor (V, Cr, Zn, Zr) elements by x-ray fluorescence (XRF) spectrometry after fusion
BF-REE-ICP	Rare Earth Elements (Ce, Dy, Er, Eu, Gd, Hf, Ho, La, Lu, Nd, Pr, Sc, Sm, Tb, Tm, Y, Yb) geochemical determination in various mineral substances by Lithium Tetra / Meta Borate fusion followed by ICP-OES
FA-GRAV-Au	Analysis of Gold by fire assay followed by gravimetric quantification
FC-MP-SAA/ICP	Determination of precious metals (Au, Pd, Pt) in various mineral matrices using fire assay followed by AAS or ICP-OES
ME-LOI	Preparation and determination of loss on ignition (LOI) on solid samples at 1050°C – Gravimetric method
SF-ME-ICP	Geochemical determination of multi-elements (Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Ga, Gd, Ge, Ho, In, La, Li, Lu, Mg, Mn, Nd, Ni, P, Pb, Pr, Rb, Sm, Tb, Th, Tl, Tm, U, V, Y, Yb, Zn) in various mineral substances by sodium peroxide fusion followed by a combination of ICP-OES and ICP-MS

Number of Scope Listings: 9



This document forms part of the Certificate of Accreditation issued by the Standards Council of Canada (SCC). The original version is available in the Directory of Accredited Laboratories on the SCC website at [www.scc.ca](http://www.scc.ca).

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Vice-President, Accreditation Services  
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