



TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

Scope of Accreditation

Accredited Laboratory No. 744

Legal Name of Accredited Laboratory: **SGS CANADA INC. MINERALS - BURNABY**

Location Name or Operating as (if applicable): **BURNABY**

Contact Name: Valerie Kuch

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SCC File Number:	15919
Accreditation Standard(s):	ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories
Fields of Testing:	Chemical/Physical
Program Specialty Area:	Agriculture Inputs, Food, Animal Health and Plant Protection (AFAP) Mineral Analysis
Initial Accreditation:	2012-04-05
Most Recent Accreditation:	2019-05-27
Accreditation Valid to:	2024-04-05

SCC Group Accreditation:

This laboratory is a part of a Group Accreditation with the following facilities in accordance with SCC's policy on Group Accreditation documented in the Accreditation Services Accreditation Program Overview.

SCC File 15254 - SGS CANADA INC., MINERALS - LAKEFIELD, Accredited Laboratory No. 184

SCC File 151001 - SGS CANADA INC., MINERALS - ENERGY, Accredited Laboratory No. 807

SCC File 151041 - SGS CANADA INC., MINERALS - COCHRANE, Accredited Laboratory No. 841

SCC File 15745 - SGS CANADA INC., MINERALS - RED LAKE, Accredited Laboratory No. 598



CHEMICALS AND CHEMICAL PRODUCTS

Chemicals for Agricultural Industry:

SPPA Potassium in Fertilizers	SPPA: Saskatchewan Potash Producers Association, Inc. (SPPA) Sample Preparation Procedures Standard Analytical Procedures & Standard Physical Testing Procedures For The Analysis of Potassium (K ₂ O) and Sodium Chloride (NaCl) in Potassium Chloride & other Fertilizers [K ₂ O; NaCl; KCL]
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METALLIC ORES AND PRODUCTS

Metallic Ores:

Rocks and Ores

(Sediments, sands, soils, stones
Precious Metals)

Mineral Analysis Testing

(see Note 1 concerning off site physical sample preparation)

Assay, Umpire Assay Work

Mineral Assaying

GE_AAS12E	Preparation and Determination of Silver in Exploration Samples by Nitric and Hydrochloric Acid Digestion and Atomic-Absorption Spectroscopy (AAS) [Ag;HNO ₃ ;HCl;]
GE_AAS42E	Preparation and Determination of Silver in Exploration Samples by Multi-acid Digest and Atomic-Absorption Spectroscopy (AAS) [Ag; HNO ₃ ; HCl; HClO ₄ ; HF]
GE_FAA313-FAA515	Preparation and Determination of Gold in Exploration Samples by Lead Fusion Fire Assay and Atomic Absorption Spectrometry [30g.; 50g.; Au; HNO ₃ , HCl, AAS]
GE_FAI313-FAI515	Preparation and Determination of Gold, Platinum and Palladium in Exploration Samples by Lead Fusion Fire Assay and Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES) [30g.; 50g.; Au; Pt; Pd; HNO ₃ ; HCl]
GE_ICM14B	Determination of Fifty-one (51) Elements in Geological Samples using an Aqua Regia Digestion and a Combination of Inductively Coupled Plasma Emission Spectrometry (ICP-OES) and Inductively Coupled Plasma



	Mass Spectrometry (ICP-MS) [HNO ₃ ; HCl; Al; Sb; As; Ba; Be; Bi; Ca; Cd; Ce; Cs; Cr; Co; Cu; Ga; Ge; Hf; In; Fe; La; Pb; Li; Lu; Mg; Mn; Hg; Mo; Ni; Nb; P; K; Rb; Sc; Se; Ag; Na; Sr; S; Ta; Te; Tb; Tl; Th; Sn; Ti; U; V; W; Y; Yb; Zn; Zr]
GE_ICM40B	Preparation and Determination of Forty-nine (49) Elements in Exploration Samples using Multi-acid digestion and Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES) and Inductively Coupled Plasma Mass Spectrometry (ICP-MS) [HCl; HNO ₃ ; HF; HClO ₄ ; Ag; Al; As; Ba; Be; Bi; Cd; Ca; Ce; Cs; Cr; Co; Cu; Ga; Hf; In; Fe; K; La; Li; Lu; Mg; Mn; Mo; Ni; Nb; P; Pb; Rb; Sb; Sc; Se; Na; Sr; S; Ta; Te; Tb; Tl; Th; Sn; Ti; W; U; V; Yb; Y; Zn; Zr]
GE_ICM90A	Determination of Fifty-six (56) Elements in Geological Samples using Sodium Peroxide Fusion and a Combination of Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES) and Inductively Coupled Plasma Mass Spectrometry (ICP-MS) [Na ₂ O ₂ ; HNO ₃ ; C ₄ H ₆ O ₃ ; Ag; Al; As; Ba; Be; Bi; Ca; Cd; Ce; Co; Cr; Cs; Cu; Dy; Er; Eu; Fe; Ga; Gd; Ge; Hf; Ho; In; K; La; Li; Lu; Mg; Mn; Mo; Nb; Nd; Ni; P; Pb; Pr; Rb; Sb; Sc; Si; Sm; Sn; Sr; Ta; Tb; Th; Tl; Ti; Tm; U; V; W; Y; Yb; Zn; Zr]
GE_ICP14B	Preparation and Determination of Thirty-four (34) Elements in Exploration Samples using Aqua Regia Digest and Inductively Coupled Plasma Emission Spectrometry (ICP-AES) [Ag; Al; As; Ba; Be; Bi; Ca; Cd; Cr; Co; Cu; Fe; Hg; K; La; Li; Mg; Mn; Mo; Na; Ni; P; Pb; S; Sb; Sc; Sn; Sr; Ti; V; W; Y; Zn; Zr; HCl; HNO ₃]
GE_ICP40B	Preparation and Determination of Thirty-three (33) Elements in Exploration Samples using Multi-Acid Digestion and Inductively Coupled Plasma Emission Spectrometry (ICP-AES) [HCl; HNO ₃ ; HF; HClO ₄ ; Ag; Al; As; Ba; Be; Bi; Cd; Ca; Cr; Co; Cu; Fe; K; La; Li; Mg; Mn; Mo; Na; Ni; P; Pb; S; Sb; Sc; Sn; Sr; Ti; W; V; Y; Zn; Zr]
GO_FAG303-FAG505	Preparation and Determination of Ore Grade Gold by Lead Fusion Fire Assay and Gravimetric Finish [Au; 30g.; 50g.; HNO ₃ .]
GO_ICP90Q	Preparation and Determination of Various Elements in Ore Grade Samples using Sodium Peroxide Fusion and Inductively Coupled Plasma Emission Spectrometry (ICP-OES) [Na ₂ O ₂ ; HNO ₃ ; C ₄ H ₆ O ₆ ; Co; Cu; Pb; Mo; Ni; Zn]
GOGCGE CSA06V	Preparation and Determination of Sulphur and Carbon in Exploration, Ores, Concentrates and Metallurgical Samples by Combustion- Infrared Detection (IR) [S;C;]



GT GC_GO_XRF76V	Preparation and Determination of Major Element Oxides, LOI by Borate Fusion and Xray Fluorescence Spectrometry [SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , MgO, CaO, Na ₂ O, K ₂ O, P ₂ O ₅ , MnO, TiO ₂ , Cr ₂ O ₃ ; V ₂ O ₅ ; LOI; XRF]
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Number of Scope Listings: 13

Notes:

The physical sample preparation involving accredited test methods as listed on the scope of accreditation may be performed on location or at offsite SGS locations – which are monitored regularly for quality control and quality assurance practices.

ISO/IEC 17025:2017: General Requirements for the Competence of Testing and Calibration Laboratories

RG-MINERAL: SCC Requirements and Guidance for the Accreditation of Mineral Analysis Testing Laboratories

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.

Elias Rafoul
Vice-President, Accreditation Services
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