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SCOPE OF ACCREDITATION

SGS Canada Inc.
SGS MINERALS SERVICES − TORONTO LABORATORY
1885 and 1905 Leslie Street
Toronto, ON
M3B 2M3

Accredited Laboratory No. 456
(Conforms with requirements of CAN−P−1579 , CAN−P−4E (ISO/IEC 17025:2005))

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EMAIL:	val.murphy@sgs.com
CLIENTS SERVED:	Mining, Exploration, Research and Industrial Clients − Worldwide
FIELDS OF TESTING:	Chemical/Physical
PROGRAM SPECIALTY AREA:	Mineral Analysis
ISSUED ON:	2009−05−01
VALID TO:	2010−07−24

METALLIC ORES AND PRODUCTS

Metallic Ores:

Rocks and Ores

Sediments

(Sand)

(Soils)

(Stone)

Mineral Analysis Testing

(see Note 1 concerning off site physical sample preparation)

Assay, Umpire Assay Work

Mineral Assaying

AAS12E	Determination of Silver in Geological Samples by Nitric and Hydrochloric Acid (aqua regia) Digest and Atomic−Absorption Spectroscopy (AAS) [Ag]
CLA 01A	Determination of Ferrous Iron in Geological Samples using Multi−acid Digestion and Potassium Dichromate Titration [FeO]
CSA 01V	Determination of Total Carbon in Geological Samples using Infrared Combustion; [IR] [C]
CSA 06V	Determination of Total Sulphur in Geological Samples using Infrared Combustion; [IR] [S]
CVA 14C	Determination of mercury in Geological Samples using Multi−acid digestion and Hydride Generation Flow Injection Mercury System (FIMS) [Hg}
FAA 313	Determination of Trace Level Gold by Lead Fusion Fire Assay and Atomic Aborption spectrometry (AAS) [Au]
FAG 303	Determination of Ore Grade Gold by Lead Fusion Fire Assay and Gravimetric Finish [Au]
FAI 313	Determination of Gold, Platnum and Palladium by Lead Fusion Fire Assay Inductively Coupled Plasma Optical Emission Spectroscopy (ICP−OES) [Au; Pt; Pd]
HAS 90A	Determination of Hydride Elements in Geological Samples using Sodium Peroxide Fusion and Hydride Generation Atomic Absorption Spectrometry [As; Sb; Bi]
ICM 12B	Determination of Fifty two (52) Elements in Geological Samples using a 2 Acid Digestion and a Combination of Inductively Coupled Plasma Emission Spectrometry (ICP−OES) and Inductively Coupled Plasma Mass Spectrometry (ICP−MS) [HNO3; HCL; Al; Sb; As; Ba; Be; Bi; B; 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]

ICM 40B	Determination of Fifty (50) Elements in Geological Samples using Multi−acid digestion and a Combination of Inductively Coupled Plasma Optical Emission Spectroscopy (ICP−OES) and Inductively Coupled Plasma Mass Spectrometry (ICP−MS) [HCl; HNO3; HF; HCLO4; Ag; Al; As; Ba; Be; Bi; Cd; Ca; Ce; Cs; Cr; Co; Cu; Ga; Ge; 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]
ICM 90A	Determination of Fifty−five (55) 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) [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; Sm; Sn; Sr; Ta; Tb; Th; Tl; Ti; Tm; U; V; W; Y; Yb, Zn; Zr]
ICP 12B	Determination of Thirty−three Elements in Geological Samples using Nitric and Hydrochloric Acid Digestion and Inductively Coupled Plasma Emission Spectrometry [HNO3; HCL; Ag; Al; As; Ba; Be; Bi; Cd; Ca; Cr; Co; Cu; Fe; K; La; Li; Mg; Mn; Mo; Na; Ni; P; Pb; Sb; Sc; Sn; Sr; S; Ti; W; V; Y; Zn; Zr]
ICP 40	Determination of 40 Elements in Geological Samples using Multi−acid Digestion and Inductively Coupled Plasma Emission Spectrometry [HNO3; HCL;HF;HCLO4; Al; Ag; As; Au; Ba; Be; Bi; Ca; Cd; Ce; Co; Cr; Cu; Eu; Fe; Ga; Ho; K; La; Li; Mg, Mn; Mo; Na; Nb; Nd; Ni; P; Pb; Sc; Sr; Sn; Ta; Ti; Th; U; V; Y; Yb; Zn]
ICP 40B	Determination of Thirty Two (32) Elements in Geological Samples using Multi−Acid Digestion and Inductively Coupled Plasma Emission Spectrometry (ICP−OES) [HCl; HNO3; HF; HCLO4; Ag; Al; As; Ba; Be; Bi; Cd; Ca; Cr; Co; Cu; Fe; K; La; Li; Mg; Mn; Mo; Na; Ni; P; Pb; Sb; Sc; Sn; Sr; Ti; W; V; Y; Zn; Zr]
ICP 90Q	Determination of Six (6) Elements in Mineralized Geological Samples (Ore Grade) using Sodium Peroxide Fusion and Inductively Coupled Plasma Emission Spectrometry (ICP−OES) [Co; Cu; Pb; Mo; Ni; Zn]
IMS 95R	Determination of Seventeen (17) Rare Earth elements in geological samples using Lithium Metaborate Fusion and Inductively Coupled Plasma Mass Spectrometry (ICP−MS) [Ce; Dy; Er; Eu; Gd; Ho; La; Lu; Nd; Pr; Sm; Tb; Th; Tm; U; V; Yb]
PHY 09V	Determination of Combined Water in Geological Samples by Gravimetric Analysis [H20 +]

Notes:

1. The physical sample preparation involving accredited tes methods as listed on the scope of accreditation may be performed at SGS Minerals Services − Toronto laboratory or at off site sample preparation locations that are monitored regularly for quality control and quality assurance practices.

CAN−P−1579: Guidelines for the Accreditation of Mineral Analysis Testing Laboratories

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

P. Paladino, P. Eng., Director, Conformity Assessment

Date: 2009−05−01

Number of Scope Listings: 18
SCC 1003−15/586
Partner File #0
Partner: None