

## TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

### Scope of Accreditation

**Legal Name of Accredited Laboratory:** **ALS PERU S.A.**

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<b>SCC File Number:</b>	15834
<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>	2010-03-01
<b>Most Recent Accreditation:</b>	2022-07-26
<b>Accreditation Valid to:</b>	2026-03-01

#### 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.

- ALS Limited, ALS Vancouver
- ALS Limited, ALS Val d'Or
- ALS USA Inc., ALS Reno
- ALS Geochemistry Laos, ALS Vientiane

- ALS Patagonia S.A.
- Australian Laboratory Services Pty Ltd., ALS Romania SRL
- ALS Laboratuvar Hizmetleri Ltd. Sti., Izmir, Turkey

The physical sample preparation involving accredited test method for Minerals Analysis as listed on the Scope of Accreditation may be performed ALS Peru S.A. Lima location or at off-site sample preparation laboratories that are monitored regularly for quality control and quality assurance practices:

- Argentina - Altos Hornos Zapla 1605, Godoy Cruz, Mendoza, Argentina
- Brazil - Av. Anhanguera, 15060, Quadra 25, Lote 11E, Setor Santos Dumont, Goiânia, Goiás 74463-350 Brasil
- Brazil - Rua São Paulo, 685, Vespasiano, Minas Gerais 33200 000 Brasil
- Brazil - Rua K 346, Galpão 1, Distrito Industrial, Cuiaba, Mato Grosso
- Brazil - Avenida B, SN – Q 08G, Lote 1, 2, 18,19,20,21,22, Cidade Jardim, Parauapebas, Pará
- Chile - Hermanos Carrera Pinto 159, Parque Industrial Los Libertadores, Colina Santiago Chile
- Chile - Ruta 5 Norte Km 813,6 Acerca Sur N° 2391. Copiapo, Región de Atacama Chile
- Chile - Avenida La Fragua 1130, Barrio Industrial Chanar, Coquimbo, Región de Coquimbo Chile
- Colombia - Carrera 48B No. 99, Sur-59, Bodega San Bartolomé, Bodega 3, Medellin, Antioquia Colombia
- Ecuador - Av. Jose Andrade OE1-386 y Av. Juan de Selis, Sector Carcelen Industrial, Quito, Pichincha Ecuador
- Peru - Urb. Industrial El Cairo Manzana A, Lote 3, Distrito de Paucarpata, Arequipa Peru
- Peru - Calle A Mz C SubLote 2A, Urb.Industrial, Bocanegra, Callao 1 Peru
- Argentina - Calle 24 de Marzo, N° 53, Barrio Industrial, Caleta Olivia, Argentina, 9011
- Bolivia - Avenida Circunvalación y Final Campo Jordán s/n. Oruro, Bolivia
- Suriname - Parasolmierstraat no. 2, Paramaribo, Paramaribo, Suriname

*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**

#### **Mineral Assaying**

ME-XRF12u / ME-XRF12n*	Analysis of Nickel Laterite Sample by Fusion/XRF ( $Al_2O_3$ , CaO, Co, $Cr_2O_3$ , Cu, $Fe_2O_3$ , $K_2O$ , MgO, MnO, $Na_2O$ , Ni, $P_2O_5$ , Pb, $SiO_2$ , $TiO_2$ , Zn, Total)
AA45	Ag, Cu, Pb and Zn - Determination of Base Metals Using AAS Following an Aqua Regia Digestion
AA46	Ag, Cu, Pb, Zn and Mo - Determination of Ores and High Grade Materials Using AAS Following an Aqua Regia Digestion

AA61	Ag, Mo, Cu, Ni, Pb and Zn - Determination of Base Metals Using AAS Following a Four Acid Digestion
AA62	Ag, Cu, Mo, Ni, Pb and Zn - Determination of Ores and High Grade Materials Using AAS Following a Four Acid Digestion
Au/Ag-GRA	Determination of Au and Ag by Lead Collection Fire Assay and Gravimetric Finish
Au-AA	Determination of Au by Lead Collection Fire Assay and Atomic Absorption Spectrometry
ICP81	Al, Co, Cu, Fe, Mg, Mn, Ni, Pb, S, and Zn by Sodium Peroxide Fusion and ICP-AES
ME-ICP41	Multi-Element (Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, Hg, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sc, Sr, Th, Ti, Tl, U, V, W, Zn) Determination by Aqua Regia Digestion and ICP-AES
ME-ICP61	Multi-Element (Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, S, Sb, Sc, Se, Sn, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Zn, Zr) Determination by 4-Acid Digestion and ICP-AES
ME-MS41	Multi-Element (Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Fe, Ga, Ge, Hf, Hg, In, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, Re, S, Sb, Sc, Se, Sn, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Zn, Zr) Determination by Aqua Regia Digestion and ICP-AES and ICP-MS
ME-MS61	Multi-Element (Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Fe, Ga, Ge, Hf, In, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, Re, S, Sb, Sc, Se, Si, Sn, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Zn, Zr) Determination by 4 Acid Digestion and ICP-AES and ICP-MS
ME-XRF13u / ME-XRF13n*	Analysis of Bauxite Samples by Fusion/XRF ( $Al_2O_3$ , BaO, CaO, $Cr_2O_3$ , $Fe_2O_3$ , $K_2O$ , MgO, MnO, $Na_2O$ , $P_2O_5$ , $SO_3$ , $SiO_2$ , SrO, $TiO_2$ , $V_2O_5$ , Zn, ZrO, Total)
ME-XRF21u / ME-XRF21n*	Analysis of Iron Ore samples by Fusion/XRF ( $Al_2O_3$ , As, Ba, CaO, Cl, Co, $Cr_2O_3$ , Cu, Fe, $K_2O$ , MgO, Mn, $Na_2O$ , Ni, P, Pb, S, $SiO_2$ , Sn, Sr, $TiO_2$ , V, Zn, Zr, Total)
ME-XRF24	Analysis of Phosphate by Fusion/XRF ( $Al_2O_3$ , CaO, $Fe_2O_3$ , $K_2O$ , MgO, $MnO_2$ , $Na_2O$ , $P_2O_5$ , $SiO_2$ , $TiO_2$ , Total)
ME-XRF26	Whole Rock Analysis by Fusion/XRF ( $Al_2O_3$ , BaO, CaO, $Cr_2O_3$ , $Fe_2O_3$ , $K_2O$ , MgO, MnO, $Na_2O$ , $P_2O_5$ , $SiO_2$ , SrO, $TiO_2$ , Total)
OA-GRA05x	Manual Loss on Ignition (LOI) at 1000 °C for XRF Methods
OG46	Ag, Cu, Mo, Pb and Zn - Determination of Ores and High Grade Material Using ICP-AES Following an Aqua Regia Digestion
OG62	Ag, Cu, Co, Mo, Ni, Pb and Zn-Determination of Ores and High Grade Material Using ICP-AES Following a Four-Acid Digestion
PGM-ICP	Determination of Au, Pt and Pd by Lead Collection Fire Assay and ICP-AES - Following Microwave Digestion
C-IR07	Determination of Carbon by Direct Combustion and Infrared Absorption
S-IR08	Determination of Sulphur by Direct Combustion and Infrared Absorption
ME-MS81	Trace elements (Ba, Ce, Cr, Cs, Dy, Er, Eu, Ga, Gd, Hf, Ho, La, Lu, Nb, Nd, Pr, Rb, Sm, Sn, Sr, Ta, Tb, Th, Tm, U, V, W, Y, Yb, Zr) by Lithium Borate Fusion in Graphite Crucibles
ME-GRA05	Determination of Loss On Ignition by Thermo-Gravimetric Analyser

Number of Scope Listings: 24

**Notes:**

\* **Two method sub-codes:** Suffixes n and u designate normalized and un-normalized results, respectively.

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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