



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

ALS ARABIA- MINERAL DIVISION
62nd Street
Industrial Area 1, Phase 4
Jeddah 21254 SAUDI ARABIA
William Anslow
Phone: +966 12 608 8999 bill.anslow@alsarabia.com

CHEMICAL

Valid To: March 31, 2018

Certificate Number: 3258.05

In recognition of the successful completion of the A2LA evaluation process accreditation is granted to this laboratory to perform the following types of tests using the following testing technologies and in the analyte categories identified below:

Testing Technologies: Atomic Absorption Spectroscopy, ICP Optical Emission Spectroscopy, X-ray Fluorescence

<u>ALS Method Code</u>	<u>Matrix</u>	<u>Parameter/Analyte</u>	<u>Reference</u>
Au-AA23 Au-AA24 Au-AA25 Au-AA26	Soil, Stream Sediment, Rock, Ore	Determination of Au by Lead Collection Fire Assay and Atomic Absorption Spectroscopy	In-house
ME-ICP41	Soil, Stream Sediment, Rock, Ore	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	In-house
ME-ICP61	Soil, Stream Sediment, Roc, Ore	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 4 Acid Digestion and ICP-AES	In-house
ME-OG46	Rock, Ore	Ag, Cu, Pb, Zn, Fe, Ni, Mo, S, Determination by Aqua Regia Digestion and ICP-AES	In-house
ME-OG62	Rock, Ore	Ag, Cu, Pb, Zn, Fe, Ni, Mo, S – Determination by 4 Acid Digestion and ICP-AES	In-house
ME-XRF06 ME-XRF06m	Rock, Ore	SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , CaO, MgO, Na ₂ O, K ₂ O, Cr ₂ O ₃ , TiO ₂ , MnO, P ₂ O ₅ , SrO, BaO, Fused Disc by Lithium Metaborate and Lithium Tetraborate Fusion and XRF Instrumentation and LOI using Classical Technique 1000C (OA-GRA06)	In-house

William C. Bunt

<u>ALS Method Code</u>	<u>Matrix</u>	<u>Parameter/Analyte</u>	<u>Reference</u>
ME-XRF13n ME-XRF13u"	Rock, Ore	SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , CaO, MgO, Na ₂ O, K ₂ O, Cr ₂ O ₃ , TiO ₂ , MnO, P ₂ O ₅ , SrO, BaO, SO ₃ , V ₂ O ₅ , Zn, ZrO ₂ Fused Disc by Lithium Metaborate and Lithium Tetraborate Fusion and XRF Instrumentation and LOI using Classical Technique 1000C (OA-GRA06)	In-house





Accredited Laboratory

A2LA has accredited

ALS ARABIA - MINERAL DIVISION

Jeddah, SAUDI ARABIA

for technical competence in the field of

Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).



Presented this 17th day of February 2016.

A handwritten signature in blue ink, appearing to read "J. C. Bunt".

Senior Director of Quality & Communications
For the Accreditation Council
Certificate Number 3258.05
Valid to March 31, 2018

For the tests to which this accreditation applies, please refer to the laboratory's Chemical Scope of Accreditation.