



SCOPE OF ACCREDITATION TO ISO 17034:2016

AFRICAN MINERAL STANDARDS  
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REFERENCE MATERIALS PRODUCER

Valid To: August 31, 2024

Certificate Number: 4951.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this Reference Material Producer for the production of certified reference materials of the following categories:

<b>Certified Reference Material/ Artifact or Matrix</b>	<b>Concentration Ranges<sup>1</sup></b>	<b>Measurement Technique(s)</b>
Multi Element PGM in Ores, Concentrates and Tails  Multi Elements, Including PGM, Specific Gravity and LOI, in Ores, Concentrates and Tails	Low Grade  Medium Grade  High Grade	Measurement by a network of qualified laboratories using a variety of methods of demonstrable accuracy
Multi Element Gold Uranium in Ores, Concentrates and Tails  Multi Elements, Including Gold and Uranium, Specific Gravity and LOI, in Ores, Concentrates and Tails	Low Grade  Medium Grade  High Grade	Measurement by a network of qualified laboratories using a variety of methods of demonstrable accuracy
Multi Element Gold in Ores, Concentrates and Tails, Specific Gravity, LOI  Multi Elements, Including Gold, Specific Gravity and LOI, in Ores, Concentrates and Tails	Low Grade  Medium Grade  High Grade	Measurement by a network of qualified laboratories using a variety of methods of demonstrable accuracy

Certified Reference Material/ Artifact or Matrix	Concentration Ranges <sup>1</sup>	Measurement Technique(s)
<p>Multi Element Uranium in Ores, Concentrates and Tails, Specific Gravity, LOI</p> <p>Multi Elements, Including Uranium, Specific Gravity and LOI, in Ores, Concentrates and Tails</p>	<p>Low Grade</p> <p>Medium Grade</p> <p>High Grade</p>	<p>Measurement by a network of qualified laboratories using a variety of methods of demonstrable accuracy</p>
<p>Multi Element Base Metals (Cu, Pb, Zn, Fe, Ni, Li) in Ores, Concentrates and Tails, Specific Gravity, LOI</p> <p>Multi Elements, Including Base Metals (Cu, Pb, Zn, Fe, Ni, Li), Specific Gravity and LOI, in Ores, Concentrates and Tails</p>	<p>Low Grade</p> <p>Medium Grade</p> <p>High Grade</p>	<p>Measurement by a network of qualified laboratories using a variety of methods of demonstrable accuracy</p>
<p>Multi Element Ferrous, Specific Gravity, LOI</p> <p>Multi Elements, Ferrous, Specific Gravity and LOI, in Ores, Concentrates and Tails</p>	<p>Low Grade</p> <p>Medium Grade</p> <p>High Grade</p>	<p>Measurement by a network of qualified laboratories using a variety of methods of demonstrable accuracy</p>
<p>Industrial Ore (Limestone, Dolomite, Magnesite), Concentrates and Tails, Specific Gravity, LOI</p> <p>Multi Elements, Specific Gravity and LOI, in Industrial Ore (Limestone, Dolomite, Magnesite), Concentrates and Tails.</p>	<p>Low Grade</p> <p>Medium Grade</p> <p>High Grade</p>	<p>Measurement by a network of qualified laboratories using a variety of methods of demonstrable accuracy</p>

<sup>1</sup> Uncertainties for the certified values are available on Reference Material Producer's issued certificates for certified reference materials.



# Accredited Reference Material Producer

A2LA has accredited

## AFRICAN MINERAL STANDARDS

*Johannesburg, SOUTH AFRICA*

This accreditation covers the specific materials listed on the agreed upon Scope of Accreditation.

This producer meets the requirements of ISO 17034:2016 *General Requirements for the Competence of Reference Material Producers*. This accreditation demonstrates technical competence for a defined scope and the operation of a quality management system.



Presented this 17<sup>th</sup> day of November 2022.

A blue ink signature of Trace McInturff, written in a cursive style, positioned above a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 4951.01  
Valid to August 31, 2024