

CERTIFICATE OF ACCREDITATION

In terms of section 22(2) (b) of the Accreditation for Conformity Assessment, Calibration and Good Laboratory Practice Act, 2006 (Act 19 of 2006), read with sections 23(1), (2) and (3) of the said Act, I hereby certify that:-

JANETTE CAWOOD AND ASSOCIATES

Co. Reg. No.: 2002/024068/23

CAWOOD LABORATORIES

Facility Accreditation Number: **T0810**

is a South African National Accreditation System accredited facility
provided that all conditions and requirements are complied with

This certificate is valid as per the scope as stated in the accompanying schedule of accreditation,
Annexure "A", bearing the above accreditation number for

CHEMICAL ANALYSIS

The facility is accredited in accordance with the recognised International Standard

ISO/IEC 17025:2017

The accreditation demonstrates technical competency for a defined scope and the operation of a
quality management system

While this certificate remains valid, the Accredited Facility named above is authorised to
use the relevant accreditation symbol to issue facility reports and/or certificates

Mr T Baleni

Acting Chief Executive Officer

Effective Date: 10 May 2023

Certificate Expires: 09 May 2028

ANNEXURE A

SCHEDULE OF ACCREDITATION

Facility Number: **T0810**

Permanent Address of Laboratory:

Cawood Laboratories
Janette Cawood and Associates CC
Imoya Estate
Die Stalle - Droeevlei
Saldanha Road
Vredenburg, 7395

Postal Address:

P O Box 443
Saldanha
7395

Technical Signatories:

Ms J E Cawood (All Methods)
Mr P Cawood (All Methods)

Nominated Representative:

Ms N van Tonder

Tel: 083 656 7675

Fax:

E-mail: admin@cawlaboratories.com

Issue No.: 07

Date of Issue: 27 June 2023

Expiry Date: 09 May 2028

Material or Products Tested	Type of Tests / Properties Measured, Range of Measurement	Standard Specifications, Techniques / Equipment Used
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CHEMICAL

Iron Manganese Ore and Cu, Pb, Zn Concentrates	Manual Sampling (Fe, Mn, Cu, Pb, Zn)	ISO 3082 & ISO 4296-1/ QTest006
	Sample Preparation	ISO 3082 & ISO 4296-2/ QProc015
	Determination of Moisture (Fe, Mn, Cu, Pb, Zn)	ISO 3087 & ISO 4299/ QTest002
	Determination of particle size	ISO 4701/ QTest001
	Determination of tumble and abrasion Index	ISO 3271/ QTest003
	Transportable Moisture Limit (TML) - Fe, Mn by Proctor Fagerberg Methods	ISO TC 102SC3/N3/ QTest005
	Cu, Pb, Zn in Concentrates by Flowtable Method	ISO 12742/ QTest009
	Determination of Bulk Density (Fe, Mn)	ISO 3852/ QTest007
	Determination of Water Density (H ₂ O) Fe, Mn	ISO 3852/ QTest004
	Determination of Gas Density with Pycnometer (Fe ore and Mn Ore) Cu, Pb, Zn	ISO 1215/ QTest008

Determination of Total Fe	QTest010
Determination of Fe 2+	QTest011
Determination of Metallic Fe	QTest012
Analysis of Mn Ore and Fe Ore by XRF Analysis	QTest013 and QTest014

Original Date of Accreditation: 10 May 2018

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM

Accreditation Manager