



CERTIFICATE of AUTHOR

This Certificate of Author has been prepared to meet the requirements of National Instrument 43-101 Standards of Disclosure for Mineral Projects, Part 8.1.

a) Name, Address, Occupation:

William Cain Joughin

SRK House, 265 Oxford Road Illovo, South Africa.

b) Title and Date of Technical Report:

“Kipushi 2022 Feasibility Study”, with an effective date of 14 February 2022 (the “Technical Report”)

c) Qualifications:

I am a registered Professional Engineer (No 20040372) and a fellow of FSAIMM (55634) in South Africa. I am a graduate of the University of Witwatersrand, with a BSc in Mining Engineering (1990) and MSc in Engineering (1994). I have practiced my profession continuously since 1991 and I have more than 25 years' experience in mining and rock engineering. I have been involved in geotechnical investigations, mining method selection, geotechnical underground mine design for mining projects and operating mines in Africa, Australasia, Asia, Europe, North America and South America. I have direct operational experience in underground mines in South Africa. As a result of my experience and qualifications, I am a Qualified Person as defined in National Instrument 43-101.

d) Site Inspection:

I visited the project site from 19 May to 22 May 2014, from 27 November to 29 November 2017 and on 17 August 2018. The site visits included inspections of the drill core, underground visits to gain an impression of the ground conditions and discussions with the mine personnel on the local geology and previous mining activities conducted.

e) Responsibilities:

I am responsible for Sections 1.12; 2; 16.1; and 27.

f) Independence:

I am independent of Ivanhoe Mines Ltd. in accordance with the application of Section 1.5 of National Instrument 43-101.

g) Prior Involvement:

I have been working on various aspects of the studies of the project since 2008.

h) Compliance with NI 43-101:

I have read National Instrument 43-101 and Form 43-101FI and the Technical Report has been prepared in compliance with same.

i) Disclosure:

As of 14 February 2022, to the best of my knowledge, information and belief, the sections of the Technical Report for which I am responsible contain all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

Dated: 4 March 2022.

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