

4 October 2023

Investor Update Presentation Deck Exploration Success at the Pomme REE-Nb Project in Québec.

MTM Critical Metals Limited (ASX:MTM) is pleased to provide a presentation deck which provides an update of the Company's exploration program and recent drilling results from the Pomme REE-Nb Project in Canada.

For further details regarding the attached presentation, refer ASX announcement dated 28 September 2023 titled *"High grade total rare earth element oxide (TREO) drilling results returned over significant widths at the Pomme REE-Nb Project, Québec"*.

This announcement has been authorised for release by the Board of Directors.

For further information, please contact:

Lachlan Reynolds
Managing Director
MTM Critical Metals Limited
Phone: +61 (0)8 6391 0112
Email: lachlan.reynolds@mtmmetals.com.au

Gareth Quinn
Investor Relations
Republic PR
Mobile: 0417 711 108
Email: gareth@republicpr.com.au

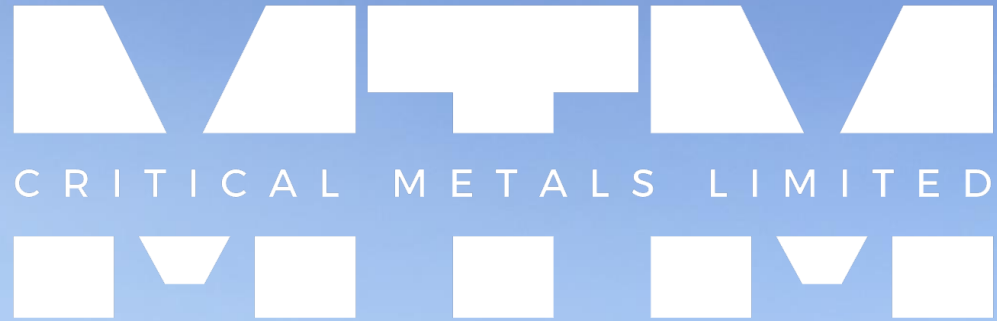
About MTM Critical Metals Limited

MTM Critical Metals Limited is an exploration company which is focused on searching for rare earth elements (REE), gold, lithium, nickel, and base metals in the Goldfields and Ravensthorpe districts of Western Australia and in the Abitibi region of the Province of Québec. The Company holds over 4,500km² of tenements in three prolific and highly prospective mineral regions in Western Australia and has an option to acquire, through an earn-in arrangement, a 100% interest in 2,400 ha of exploration rights in Québec, Canada. The East Laverton Projects is made up of a regionally extensive package of underexplored tenements prospective for REE, gold and base metals. The Mt Monger Gold Project comprises an area containing known gold deposits and occurrences in the Mt Monger area, located ~70km SE of Kalgoorlie and immediately adjacent to the Randalls gold mill operated by Silver Lake Resources Limited. The Ravensthorpe Project contains a package of tenements in the southern part of Western Australia between Esperance and Bremer Bay which are prospective for a range of minerals including REE, lithium, nickel and graphite. The Pomme project in Québec is a known carbonatite intrusion that is enriched in REE and niobium and is considered to be an extremely prospective exploration target adjacent to a world class REE resource (Montviel deposit). Priority drilling targets have been identified in all project areas and the Company is well funded to undertake effective exploration programs. The Company has an experienced Board and management team which is focused on discovery to increase value for Shareholders.

P: +61 (0)8 6391 0112

E: info@mtmcriticalmetals.com.au

W: www.mtmcriticalmetals.com.au



REE Exploration in Québec, Canada

Investor Update October 2023

Disclaimers



This presentation has been prepared by MTM Critical Metals Limited (ACN 645 885 463) ("MTM Critical Metals" or "Company") for the exclusive use of the party to whom MTM Critical Metals delivers this document (the "Recipient"). The information contained in this document has been prepared in good faith by MTM Critical Metals. However, to the maximum extent permitted by law, no representation or warranty, either express or implied, is made as to the accuracy, completeness, adequacy or reliability of the information contained in this document. This document contains only a synopsis of more detailed information in relation to the matters described herein and accordingly no reliance may be placed for any purpose whatsoever on the sufficiency or completeness of such information as presented herein. This document should not be regarded by the Recipient as a substitute for the exercise of its own judgment and the Recipient should conduct its own due diligence in respect of the contents of this document. To the maximum extent permitted by law, MTM Critical Metals, its directors, officers, employees, advisers, and agents disclaim any or all liability for any loss or damage which may be suffered by any person as a result of the use of, or reliance upon, anything contained within or omitted from this document.

This document has been prepared solely for informational purposes. This document does not constitute a prospectus or other form of disclosure document and is not to be construed as a solicitation, invitation or an offer to buy or sell any securities, or related financial instruments, in any jurisdiction. This document is not subject to the disclosure requirements affecting disclosure documents under Chapter 6D of the Corporations Act 2001 (Cth) and has not been approved by any regulatory authority such as the Australian Securities and Investments Commission or the Australian Securities Exchange.

The Recipient should not construe the contents of this document as legal, tax, accounting or financial or investment advice or a recommendation. The Recipient should consult its own legal counsel, tax and financial advisors concerning any matter described herein. This document does not purport to be all-inclusive or to contain all of the information that the Recipient may require. No investment, divestment or other financial decisions or actions should be based solely on the information in this document. The distribution of this document may be restricted by law in certain jurisdictions. The Recipient and any other persons who come into possession of the document must inform themselves about, and observe, any such restrictions.

Cautionary Statement Regarding Exploration & Development, Values & Forward-Looking Information

The tenements comprising the East Laverton REE Projects and Pomme REE-Nb Project (Projects) are at various stages of exploration and development and potential investors should understand that mineral exploration and development are high-risk undertakings. There can be no assurance that exploration and development of the Projects, or any other tenements that MTM Critical Metals may acquire in the future, will result in the discovery of an economic deposit. Even if an apparently viable deposit is identified, there is no guarantee that it can be economically exploited. Specifically, investors are cautioned that the Projects have no reported mineral resources or ore reserves and that the proximity of the Projects to any deposit and any geological similarities with that deposit are no guarantee that the Project will be prospective for an economic reserve.

It is a requirement of the ASX Listing Rules that the reporting of exploration results in Australia comply with the Joint Ore Reserves Committee's Australasian Code for Reporting of Mineral Resources and Ore Reserves ("JORC Code"). Investors outside Australia should note that while exploration results pertaining to the Projects comply with the JORC Code, they may not comply with the relevant guidelines in other countries and, in particular, do not comply with National Instrument 43-101 (Standards of Disclosure for Mineral Projects) of the Canadian Securities Administrators (the "Canadian NI 43-101 Standards").

The figures, valuations, forecasts, estimates, opinions and projections contained herein involve elements of subjective judgment and analysis and assumption. MTM Critical Metals does not accept any liability in relation to any such matters, or to inform the Recipient of any matter arising or coming to the company's notice after the date of this document which may affect any matter referred to herein. Any opinions expressed in this material are subject to change without notice, including as a result of using different assumptions and criteria. This document may contain forward-looking statements. Forward-looking statements are often, but not always, identified by the use of words such as "seek", "anticipate", "believe", "plan", "expect", and "intend" and statements that an event or result "may", "will", "should", "could", or "might" occur or be achieved and other similar expressions. Forward-looking information is subject to business, legal and economic risks and uncertainties and other factors that could cause actual results to differ materially from those contained in forward-looking statements. Such factors include, among other things, risks relating to property interests, the global economic climate, commodity prices, sovereign and legal risks, and environmental risks. Forward-looking statements are based upon estimates and opinions at the date the statements are made. To the maximum extent permitted by law, MTM Critical Metals undertakes no obligation to update these forward-looking statements for events or circumstances that occur subsequent to such dates or to update or keep current any of the information contained herein. The Recipient should not place undue reliance upon forward-looking statements. Any estimates or projections as to events that may occur in the future (including projections of revenue, expense, net income and performance) are based upon the best judgment of MTM Critical Metals from information available as of the date of this document. There is no guarantee that any of these estimates or projections will be achieved. Actual results will vary from the projections and such variations may be material. Nothing contained herein is, or shall be relied upon as, a promise or representation as to the past or future. MTM Critical Metals, its affiliates, directors, employees and/or agents expressly disclaim any and all liability relating or resulting from the use of all or any part of this document or any of the information contained herein.

By accessing or reviewing this document, the Recipient acknowledges and agrees to the "Disclaimer" as detailed above.

Recent Drilling Success

- **Diamond drilling program completed at Pomme Rare Earth Element & Niobium project located in Québec, Canada**

Excellent geological prospectivity for significant discovery:

- Carbonatite host rock – large, higher-grade deposits, primary REE-Nb source
- REE-Nb mineralisation over very broad intervals in diamond drilling, including high-grade TREO intersections

POM-23-03: 398m @ 0.54% TREO & 0.05% Nb₂O₅ from 16m, including:

30.5m @ 1.13% TREO & 0.03% Nb₂O₅ (from 311.5m) including

26.5m @ 1.45% TREO & 0.02% Nb₂O₅

51m @ 0.92% TREO & 0.06% Nb₂O₅ (from 216m) including

9m @ 1.21% TREO & 0.03% Nb₂O₅ and

8.5m @ 1.62% TREO & 0.03% Nb₂O₅

36m @ 0.92% TREO & 0.06% Nb₂O₅ (from 174m) including

18m @ 1.16% TREO & 0.03% Nb₂O₅

POM-23-01: 513m @ 0.33% TREO & 0.08% Nb₂O₅ (from 32m), including:

131m @ 0.47% TREO & 0.05% Nb₂O₅ (from 317m) including

2.65m @ 1.47% TREO & 0.02% Nb₂O₅, and

2.65m @ 1.48% TREO

43.4m @ 0.45% TREO & 0.12% Nb₂O₅ (from 216.1m)

Visible REE-Nb mineralisation observed over large area in drilling – extensive system defined
Premium location, accessible and proximal to known existing REE resource at Montviel



Drilling at Pomme REE-Nb Project



Hole POM-23-13,
August 2023



Pomme Project Overview



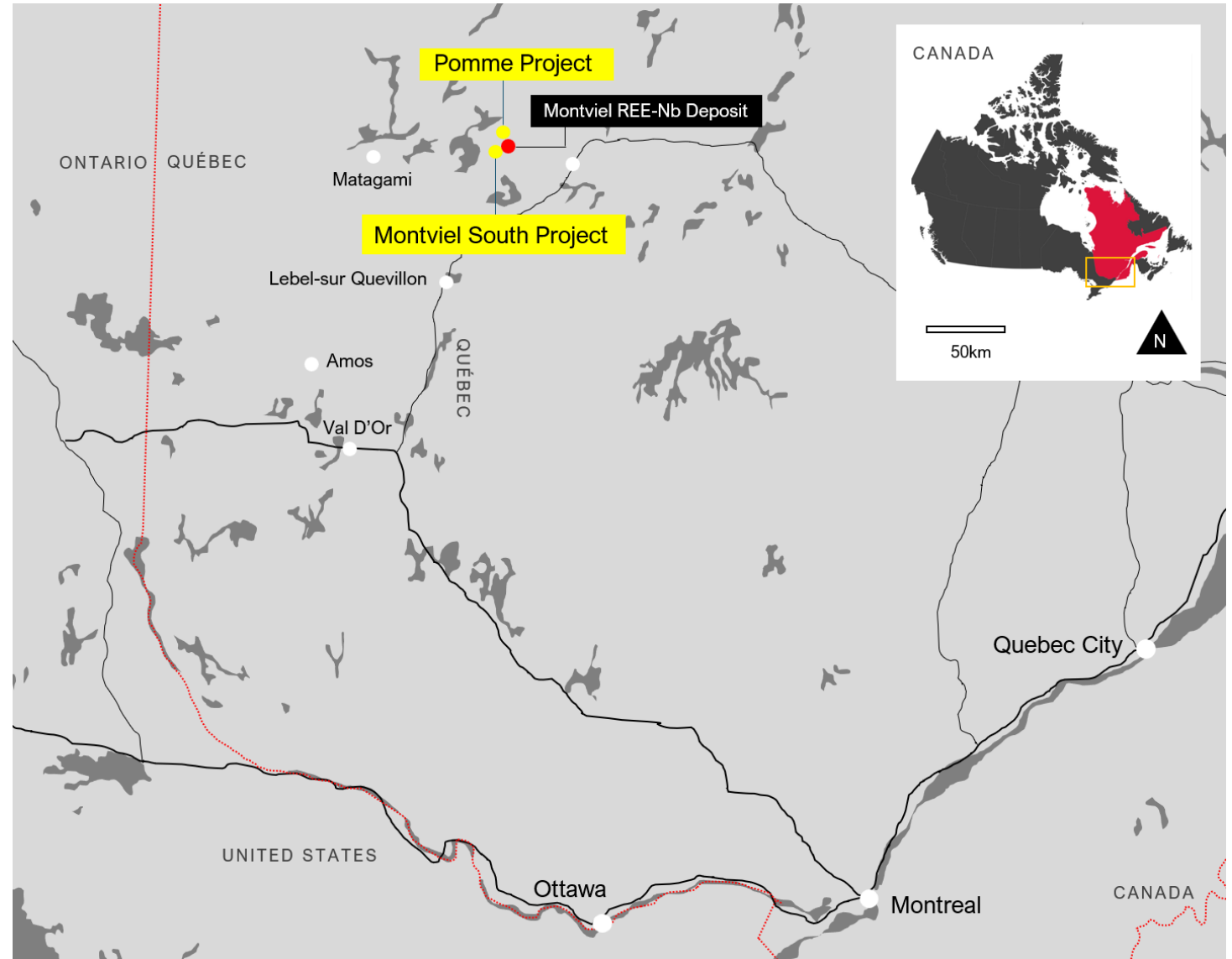
Advanced carbonatite REE-Nb Project

- MTM has secured the exclusive and binding option to acquire 100% of the **Pomme REE-Nb Project**
- Diamond drilling program completed – 13 holes, ~5,700m
- Carbonatite-hosted REE-Nb mineralisation observed in every drill hole, high-grade intersections in first holes
- The project is located only 7km from the world class carbonatite-hosted Montviel Deposit which has a total Indicated and Inferred resource of **266 Mt @ 1.46% TREO and 0.14% Nb₂O₅**
- The Pomme project presents as an extremely prospective target in an established region of Québec
- Existing technical team supporting work program on contract basis
- Government support and existing arrangements with local Cree First Nations of Waswanipi (CFNW) community

Location & Access

Very favourable for exploration & development

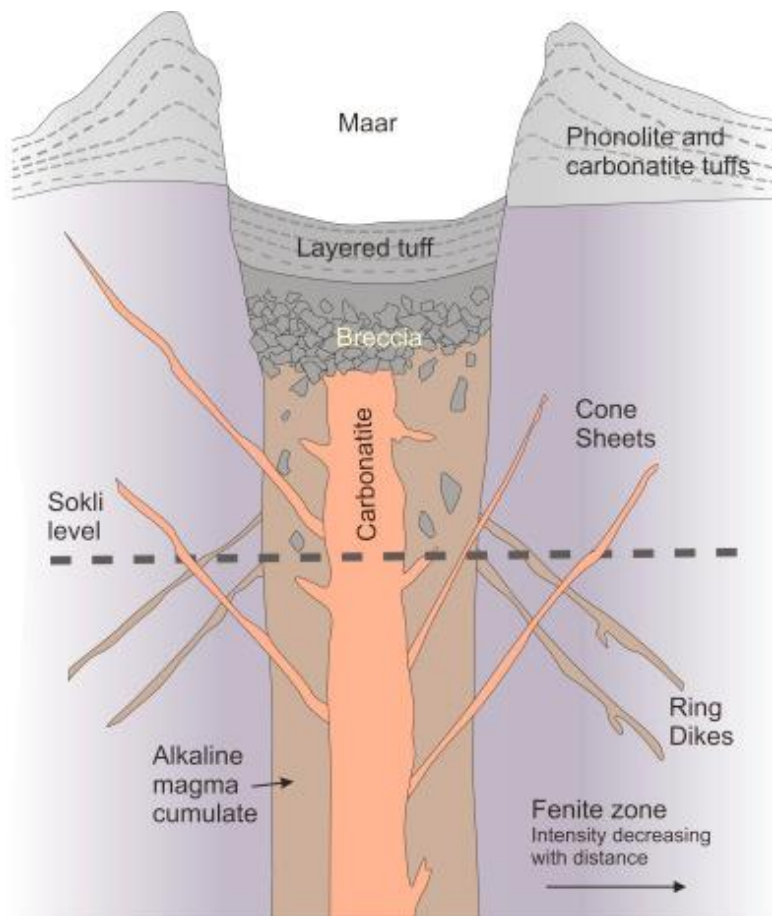
- The project is located 500 km NW of Montreal in Québec
- 100 km from the town of Lebel-sur-Quevillon, where services and manpower are available
- 50 km W of Waswanipi Cree First Nation community
- Easily accessible claims via logging roads
- Access to hydro-electricity via local infrastructure
- Relatively flat topography
- Covered by a mix of forest and swamp
- Extensive mining infrastructure and services in the famous Abitibi Belt
- Sub-arctic climate with year-round field season



Pomme REE-Nb Project location map

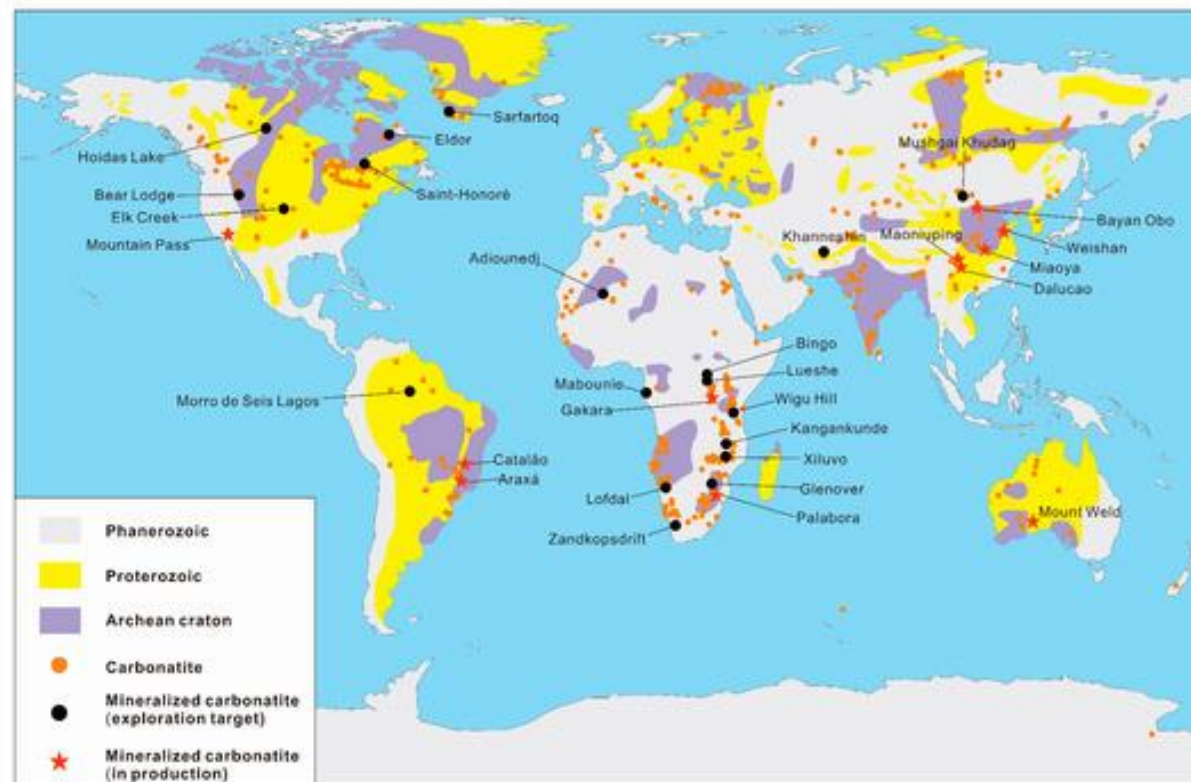
Carbonatites: What are they and why are they important?

- Relatively rare, only about 600 known worldwide
- Primary source of rare earth elements and niobium
- High grade hard-rock deposits mined with traditional open pit or underground methods
- Refractory minerals require intensive processing



Schematic carbonatite cross section (O'Brien, 2015, adapted from Ernst, 2014)

- Unusual carbonate magmatic/volcanic rocks

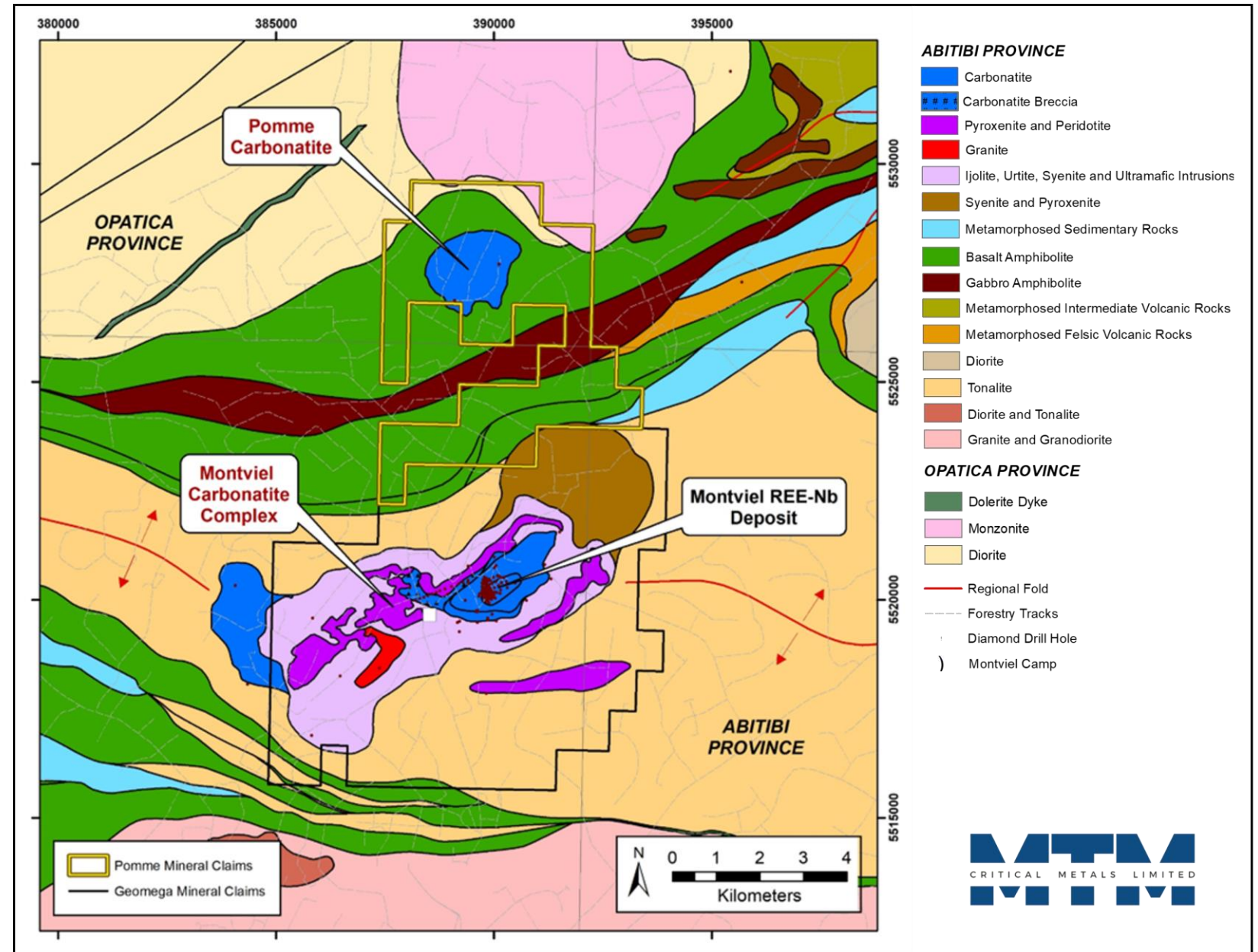


Location of carbonatites and associated REE deposits (Wang et al 2020)

Pomme Project Geology

Lookalike to Montviel REE deposit

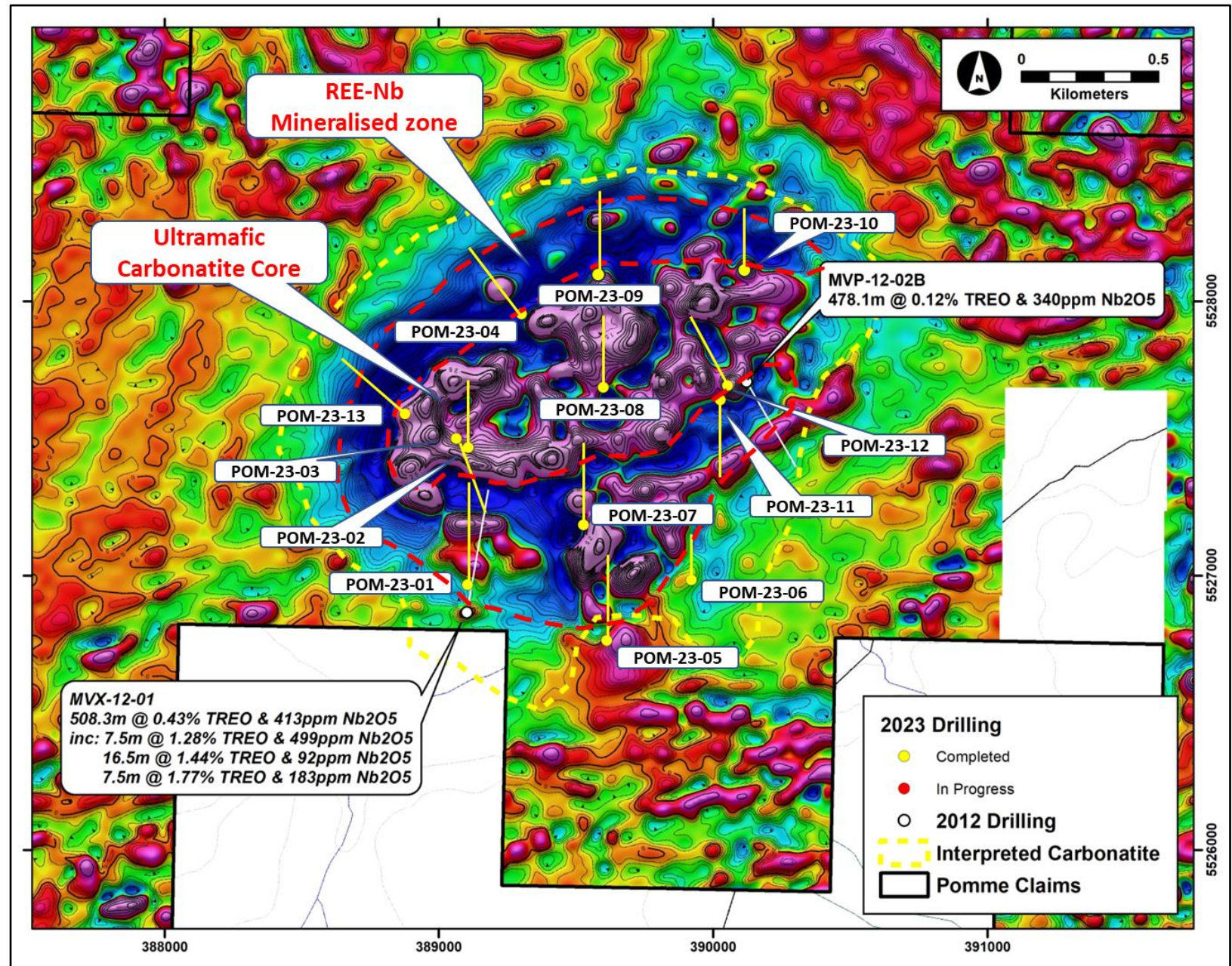
- Pomme carbonatite intrudes into sequence of mafic volcanic rocks
- Mostly covered and few exposures of bedrock
- Montviel deposit likewise hosted by carbonatite, within an alkali intrusive complex that intrudes an intermediate granitoid
- Mineralisation hosted by specific carbonatite intrusions and structures defined by drilling – small part of intrusion



Simplified interpreted geology of the Montviel deposit and Pomme project area (SIGEOM)

Pomme Project 2023 Drilling

- Total of 13 diamond drill holes completed for ~5,700 m
- Mineralisation observed in every hole – big system, >2km²
- First holes intersected visually mineralised carbonatite from close to surface to EOH and system is open at depth
- Logging completed and assaying in progress
- Geology apparently very similar to Montviel deposit
- Evaluation of geology and mineralisation across carbonatite complex



Drill status map of the Pomme Project area overlain on airborne magnetic image (TMI, 1VD)

Visual REE Mineralisation



Hole POM-23-01, 91.1 – 95.5 metres
downhole depth

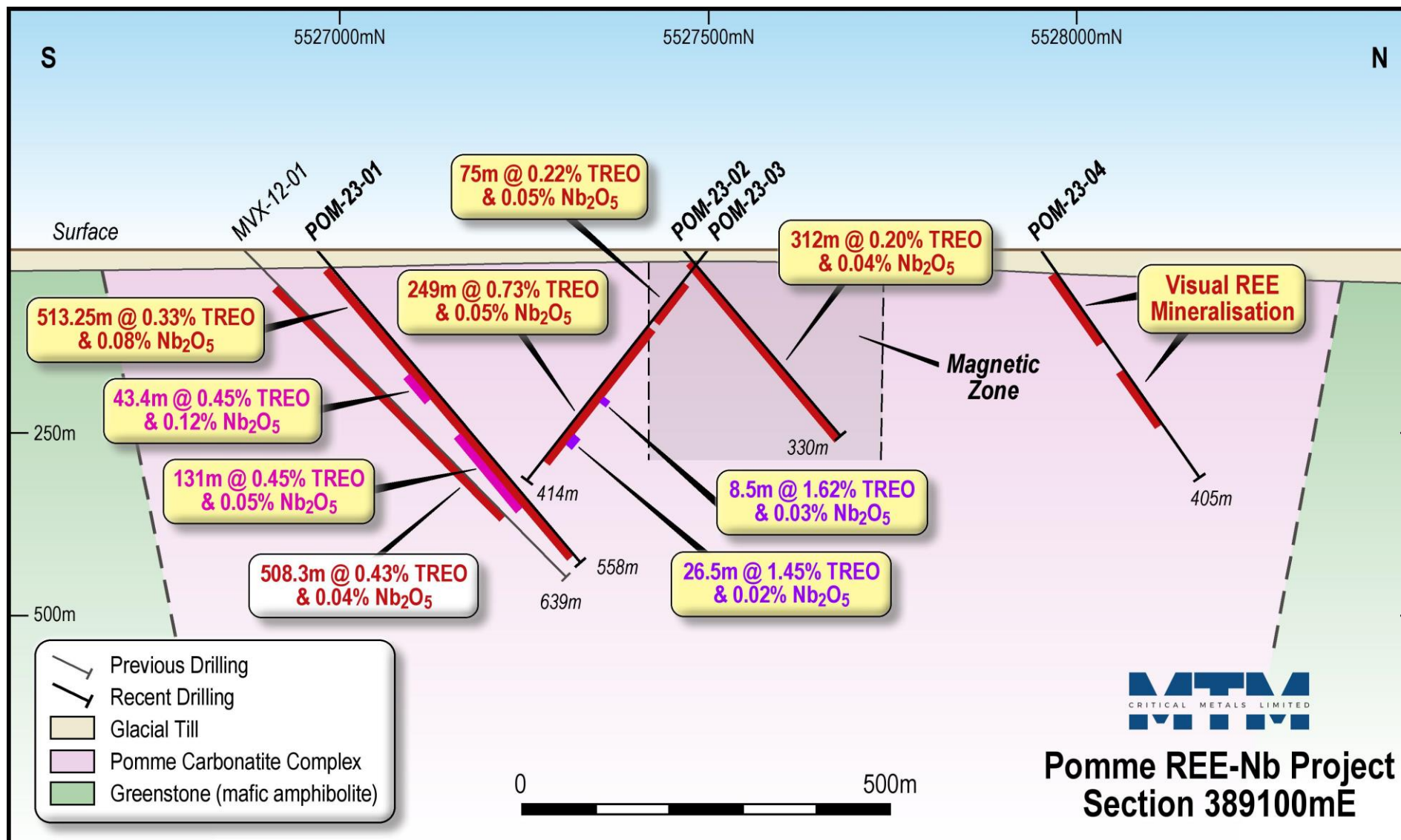


Hole POM-23-01, Box 3, 39.0 – 43.5 metres
downhole depth



Hole POM-23-01, 475.6 – 479.9 metres downhole depth

Pomme Project Intersections



Simplified geological cross-section 389,100mE showing historical and recent diamond drilling

Next Steps



- **Assess diamond drilling results**

Assay results for 10 remaining drill holes awaited

Visual mineralisation observed in all drill holes, including higher-grade zones

- **Modelling of geology and mineralisation**

Integration of geological logging, assay results and geophysics into 3D model

Identification of targets for follow-up

- **Preliminary metallurgical test work**

Selection of diamond drill core for characterisation tests

Utilise existing knowledge at Montviel to tailor and accelerate metallurgical assessment

- **Plan program for 2024 field season**

Further drilling with objective of **discovery and delineation of REE-Nb resource**

Corporate Overview



Capital Structure

Share Price (29/09/2023)	\$0.037
Shares on Issue (MTM)	98.9 M
Listed Options (MTMO)	52.8 M
Unlisted Options	10.3 M
Performance Rights	0.7 M
Market Capitalisation (undiluted)	\$3.6 M
Cash (approx.)	~\$0.9 M
Debt	Nil

Major Shareholders

Board & Management	11.6 %
Top 20 (excluding B & M)	22.6 %
Other	65.8 %

Board & Management Team

BOARD OF DIRECTORS



John Hannaford
Non-Executive Chairman
CA, B.Com, F.Fin

- 25 years experience in resources and financial sectors
- Highly experienced in executive and non executive roles, corporate advisory, directorships, IPOs, RTO and funding



David Izzard
Non-Executive Director
CPA, MBA, GAICD, B.Bus, M.Sc

- 20 years experience in the resources and finance industry
- Highly experienced Director, extensive skills in all aspects of financial, commercial and corporate activities



Lachlan Reynolds
Managing Director
BSc (Hons), MAusIMM, MAIG

- Geologist with more than 30 years involvement in mineral exploration, project feasibility and mining across multiple commodities
- Experienced executive and senior manager for a number of ASX listed companies

Tony Hadley
Non-Executive Director
BSc (Hons)

- Metallurgist with extensive experience in processing of REE deposits in Australia and Canada
- Experienced senior manager for a number of ASX listed companies

MANAGEMENT TEAM



Simon Adams
CFO & Company Secretary
BBus, MAcc

- Over 25 years of experience with listed (ASX and NASDAQ) and private companies in Australia.
- Experience in the areas of corporate and financial management, corporate compliance and business development.



Antony Zebisch
Exploration Manager
BSc, Grad Dip Mining, MBA, MAusIMM

- Geologist with more than 20 years of experience in exploration and mining.
- Extensive experience operating in Western Australia.



Michael Walshe | Mineral Processing Consultant
B.Eng. (Hons) Chem., MIEAust CPEng, MBA (Finance), MAusIMM

- 10 yrs Metso Outotec REE & lithium met process design



Claudio Sheriff-Zegers | REE Exploration Consultant
BSc Minerals Exploration and Mining Geology, MAusIMM

- Ex Asra (ASX: ASR)
- Ex Northen Minerals (ASX:NTU)

Contact Details



John Hannaford – Chairman

john.hannaford@mtmmetals.com.au



www.mtmcriticalmetals.com.au

Lachlan Reynolds – Managing Director

lachlan.reynolds@mtmmetals.com.au



@MTMCriticalMet

Simon Adams – Company Secretary

simon.adams@mtmmetals.com.au



MTM Critical Metals

www.mtmcriticalmetals.com.au

ASX: MTM

Statements



Competent Person's Statement

The information in this presentation that relates to Exploration Results is based on and fairly represents information compiled by Mr Lachlan Reynolds. Mr Reynolds is the Managing Director of MTM Critical Metals Limited and is a member of both the Australasian Institute of Mining and Metallurgy and the Australasian Institute of Geoscientists. Mr Reynolds has sufficient experience of relevance to the styles of mineralisation and types of deposits under consideration, and to the activities undertaken to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Reynolds consents to the inclusion in this report of the matters based on information in the form and context in which they appear.

Previous Disclosure

The information in this presentation is based on the following MTM Critical Metals Limited ASX Announcements, which are available from the MTM Critical Metals website www.mtmcriticalmetals.com.au and the ASX website www.asx.com.au:

- 23 February 2023 "Mt Monger to Acquire Advanced Carbonatite REE-Nb Project in Canada"
- 15 May 2023 "Drilling Confirms Further Rare Earth Element Mineralisation and Increased Potential at East Laverton"
- 19 May 2023 "Laterite Nickel Discovery at East Laverton"
- 6 June 2023 "Over 500 Metres of REE Mineralisation Intersected in First Diamond Drill Hole at the Pomme Project"
- 28 July 2023 "Diamond Drilling at Pomme REE-Nb Project Extends Known Mineralised Zones"
- 4 September 2023 "Diamond Drilling at Pomme REE-Nb Project Identifies Widespread Mineralisation"
- 28 September 2023 "High grade total rare earth element oxide (TREO) drilling results returned over significant widths at the Pomme REE-Nb Project, Quebec"

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are represented have not been materially modified from the original market announcement.