



**Exploring niobium and
REE projects in WA and
Canada with
complimentary critical
mineral processing
technology.**

MANAGING DIRECTOR
LACHLAN REYNOLDS

MARCH 2024

FUTURE FACING COMMODITIES
CONFERENCE



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The tenements comprising the Company's projects ("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").

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MTM HAS ACQUIRED 100% OF FLASH METALS PTY LTD

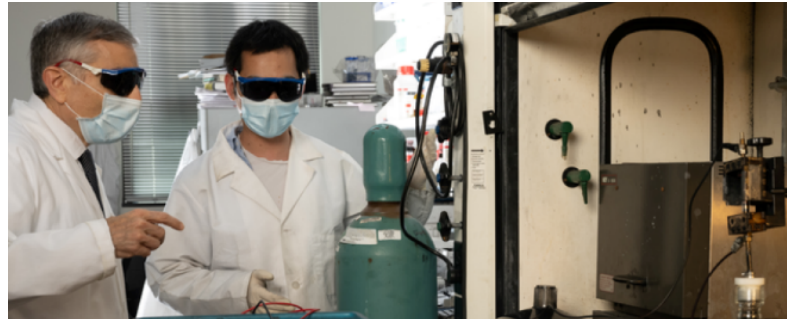
WEST ARUNTA PROJECT

MTM recently acquired 100% of Flash Metals Pty Ltd¹, owner of three exploration licences in Western Australia's West Arunta region, immediately adjacent to ground held by WA1 Resources (ASX:WA1) and Encounter Resources (ASX:ENR).



FLASH JOULE HEATING

A complimentary processing and recycling technology being developed to extract critical metals like REE, nickel, cobalt and lithium from natural mineralisation and from waste material.



MUKINBUDIN PROJECT

Located in an emerging exploration hotspot where REE mineralisation has been locally reported by Codrus Minerals (ASX:CDR) and Caprice Resources (ASX:CRS).

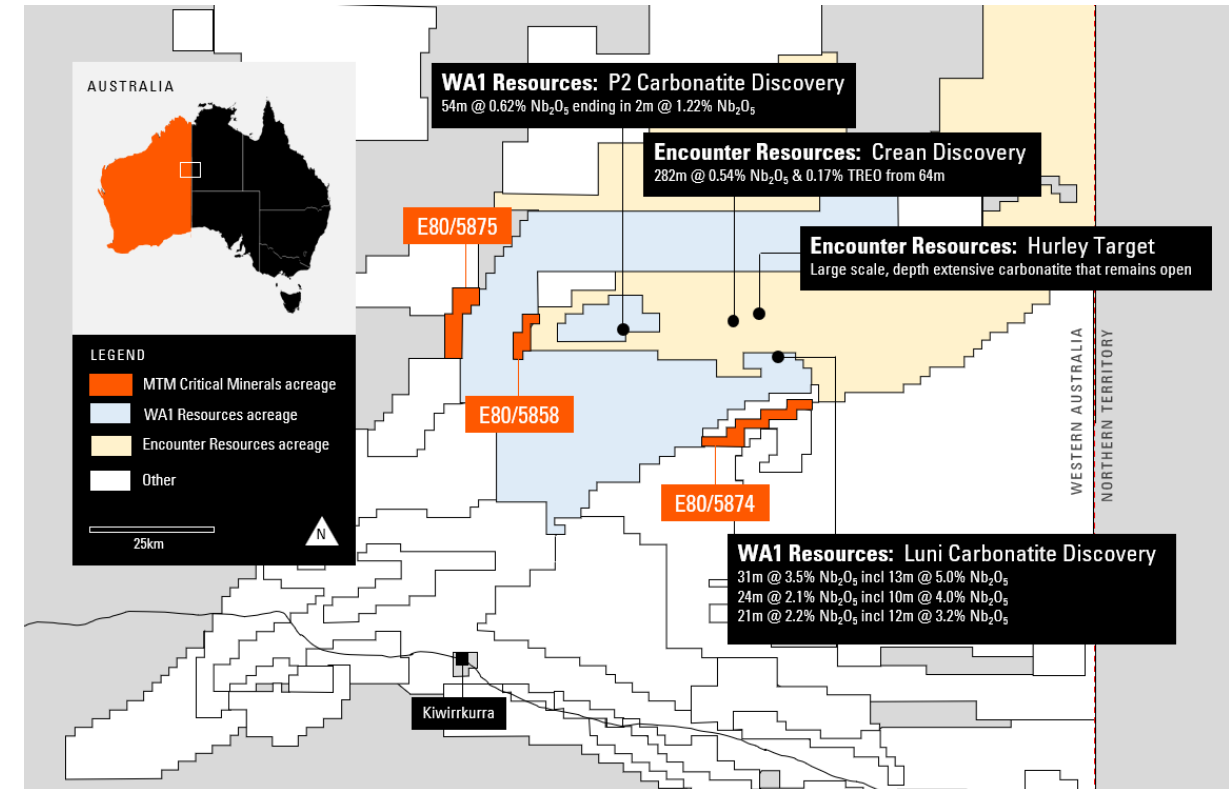


WEST ARUNTA NIOBIUM-REE PROJECT

Western Australia, Australia
140km²

Next door to recent niobium-REE carbonatite discoveries by WA1 and Encounter.

- Located immediately adjacent to tenements held by WA1 Resources Ltd (ASX:WA1) near the Luni Carbonatite Discovery and the P2 Carbonatite Discovery; and Encounter Resources Ltd (ASX:ENR) where niobium-REE mineralised carbonatites have recently been discovered.
- New acreage acquired from Flash Metals comprises three exploration tenements totalling 140km².
- The West Arunta region has emerged as one of Australia's exploration hotspots with over \$60m collectively invested in the district by a number of ASX companies including Rio Tinto (JV with Tali Resources) (ASX:RIO), CGN Resources (ASX:CGR), and IGO Limited (ASX:IGO).

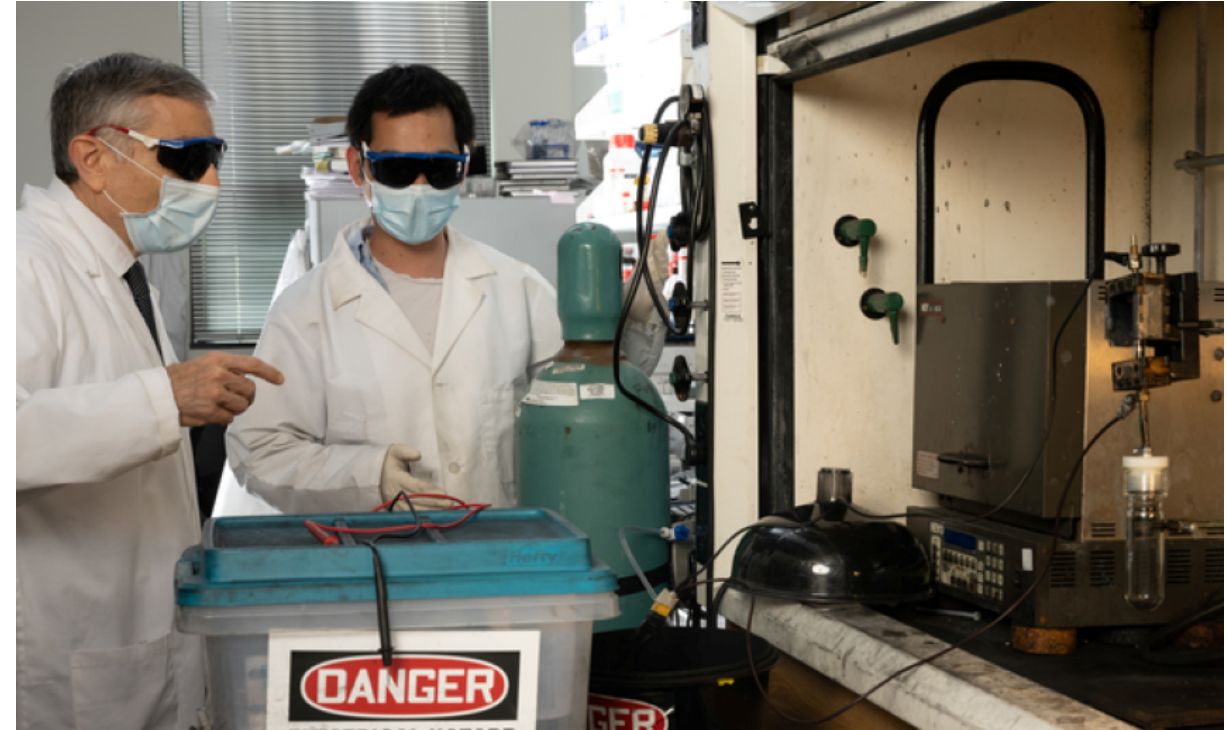


FLASH JOULE HEATING TECHNOLOGY



Emerging processing and recycling technology shown to extract critical metals like REE, nickel, cobalt and lithium from natural mineralisation and from waste material.

- Application for treating rare earth mineralisation could unlock immense value from otherwise economically marginal deposits.
- Exciting recycling application, that has demonstrated the potential to more efficiently recover critical metals including REE, precious metals and battery minerals through the recycling of lithium-ion batteries, e-waste, coal fly ash and bauxite residue.
- Negotiation of worldwide, exclusive Licence Agreement in progress.¹



Developed by Rice University in Houston, USA which has had previous ASX successes including Weebit-Nano Ltd (ASX:WBT); and Universal Matter Inc.

WHY PRODUCE CRITICAL MINERALS SUCH AS REE AND Li FROM BATTERIES, eWASTE AND INDUSTRIAL WASTE?

Local Supply:

Abundant waste sources in key end user markets near infrastructure

Environmental Solution:

Utilities and government will pay to clean up toxic waste

Abundant Resource:

The opportunity to build a massive inventory of critical minerals

Secure Supply:

Supply chain certainty and security free of geopolitical risks

Rapid Scale:

Scale production quickly and cheaply with low capex and opex

Exploration:

No exploration or mining risk and cost

Sustainable Sourcing:

Sustainable supply chain with no waste water issues

Upside Process potential:

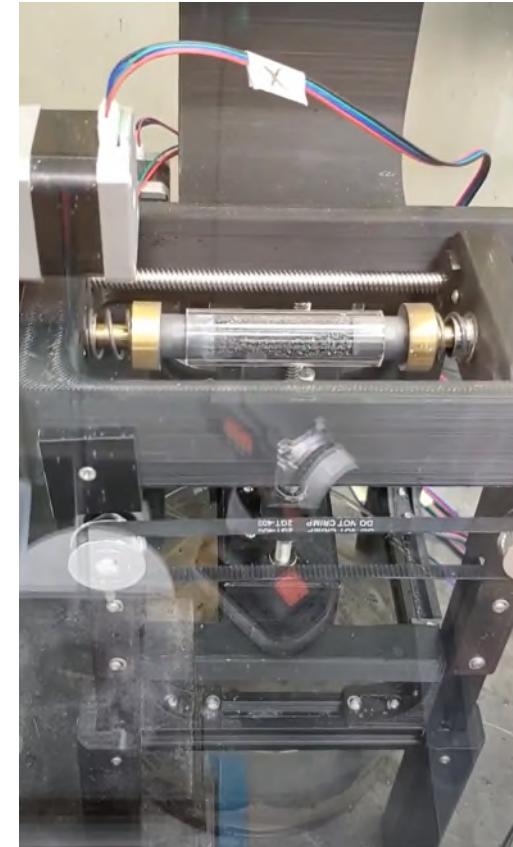
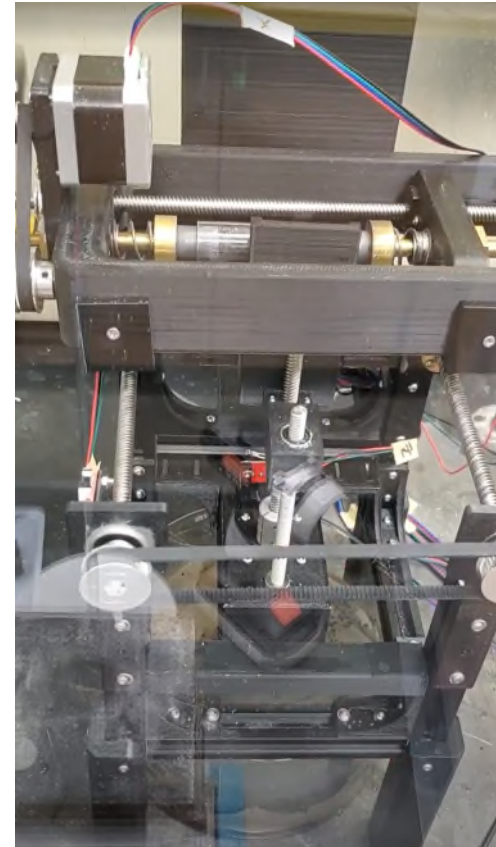
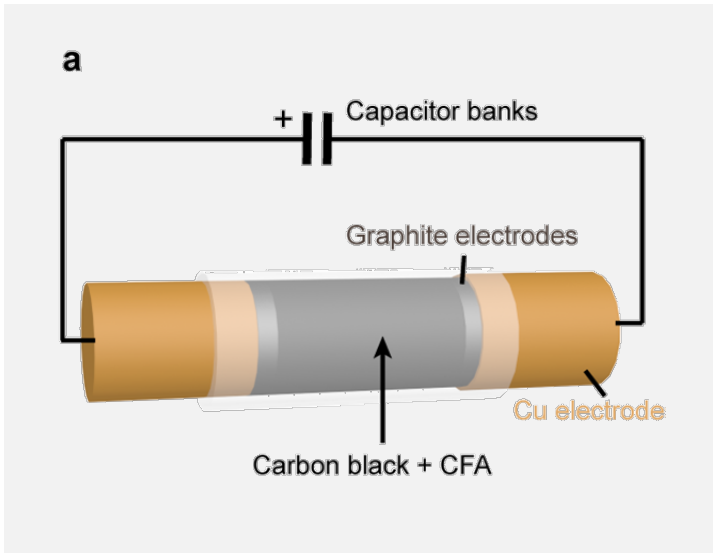
Potential to produce REE oxides, metals and alloys on site

LAB-SCALE PROCESS IS SCALABLE

Lab scale-up has demonstrated 1 kg per day.



Universal Matter Inc is producing graphene using the same FJH technology from Rice University and has already scaled to more than 1 tonne per day and is moving towards 3 tonnes per day.



RARE EARTHS EXPLORATION IN QUEBEC AND WESTERN AUSTRALIA

POMME PROJECT

Quebec, Canada
2,400ha



Advanced carbonatite-hosted rare earth element (REE) and niobium (Nb) potential.

MTM has the exclusive and binding option to acquire 100% of the project.

7km from world class Montviel Deposit 266 Mt @ 1.46% TREO and 0.14% Nb₂O₅.

Diamond drilling completed in 2023, further work planned

EAST LAVERTON PROJECT

Western Australia, Australia
1,900km²



Prospective for clay-hosted REE, nickel and gold in historical mining district with good access to existing infrastructure.

MTM has been actively exploring since 2021 with soil geochemistry and drilling – defined multiple target areas.

Extensive aircore and RC drilling completed.

POMME REE-Nb CARBONATITE PROJECT

Quebec, Canada
2,400ha

Targeting a REE-Nb resource next door to the world class Montviel Deposit.

2023 diamond drilling

13 HOLES, 5,700m

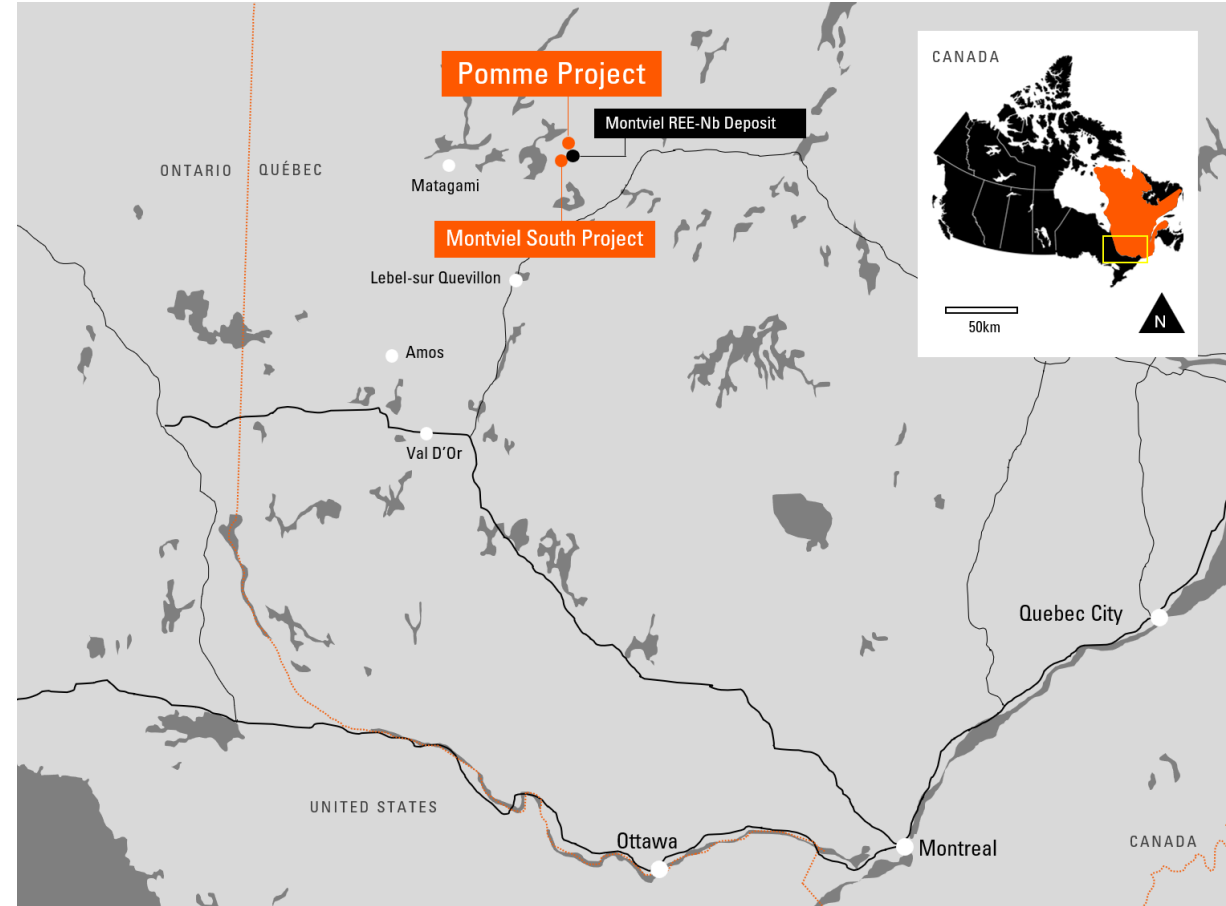


Results

Grades up to 1.45% TREO and 0.02% Nb₂O₅ over 26.5m¹.

Up to 25% Neodymium (Nd) and Praseodymium (Pr)².

Large mineralised system in carbonatite intrusion.



¹ Refer to MTM ASX announcement dated 28 September 2023

² Stated as percentage of total rare earth element oxides (TREO)

POMME PROJECT 2023 DRILLING

REE-Nb mineralisation observed in all 13 holes – BIG >2km² system.

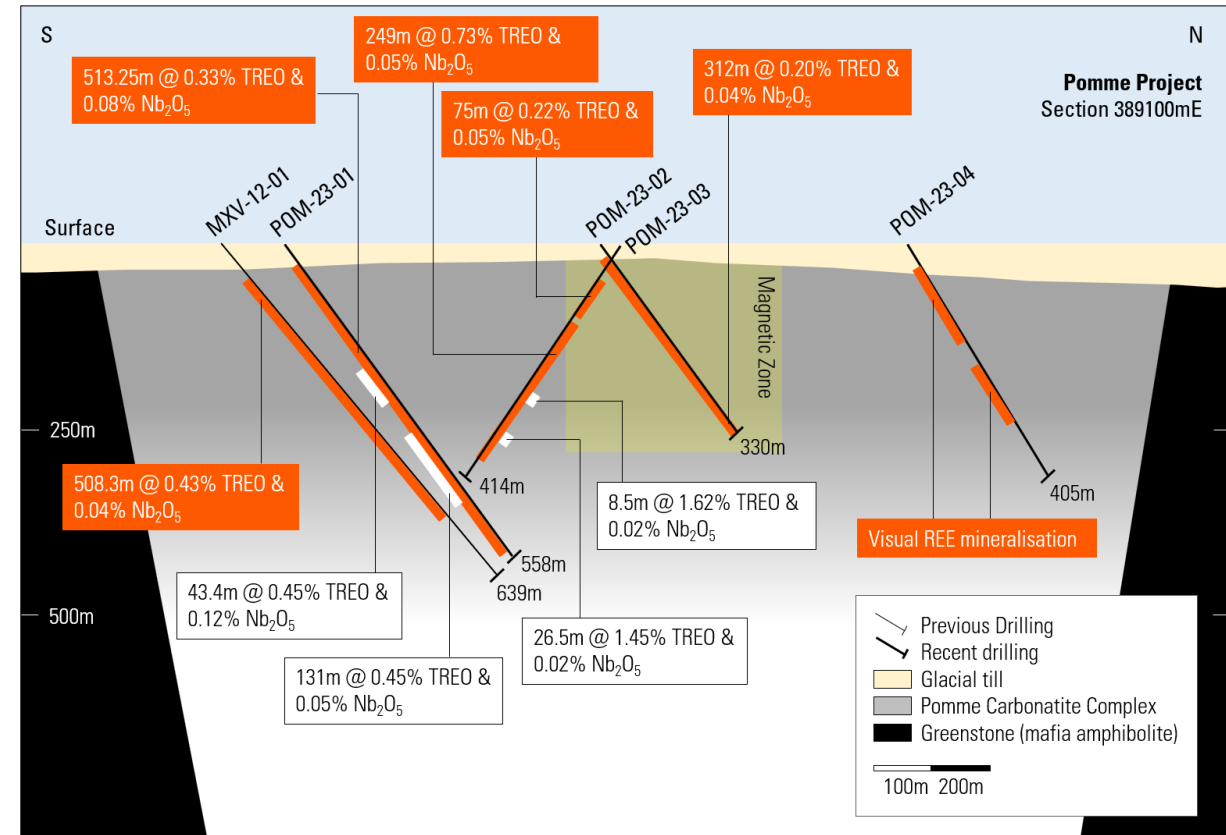
Hole POM-23-03

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

Hole 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
 2.65m @ 1.48% TREO
 43.4m @ 0.45% TREO & 0.12% Nb₂O₅ (from 216.1m)

Excellent geological prospectivity
for significant discovery.



Simplified geological cross-section 389,100mE

EAST LAVERTON PROJECT

Western Australia, Australia
1,900km²

District-scale REE project in historical mining precinct with access to infrastructure.

May 2023 drilling

Aircore holes	RC holes
174	6



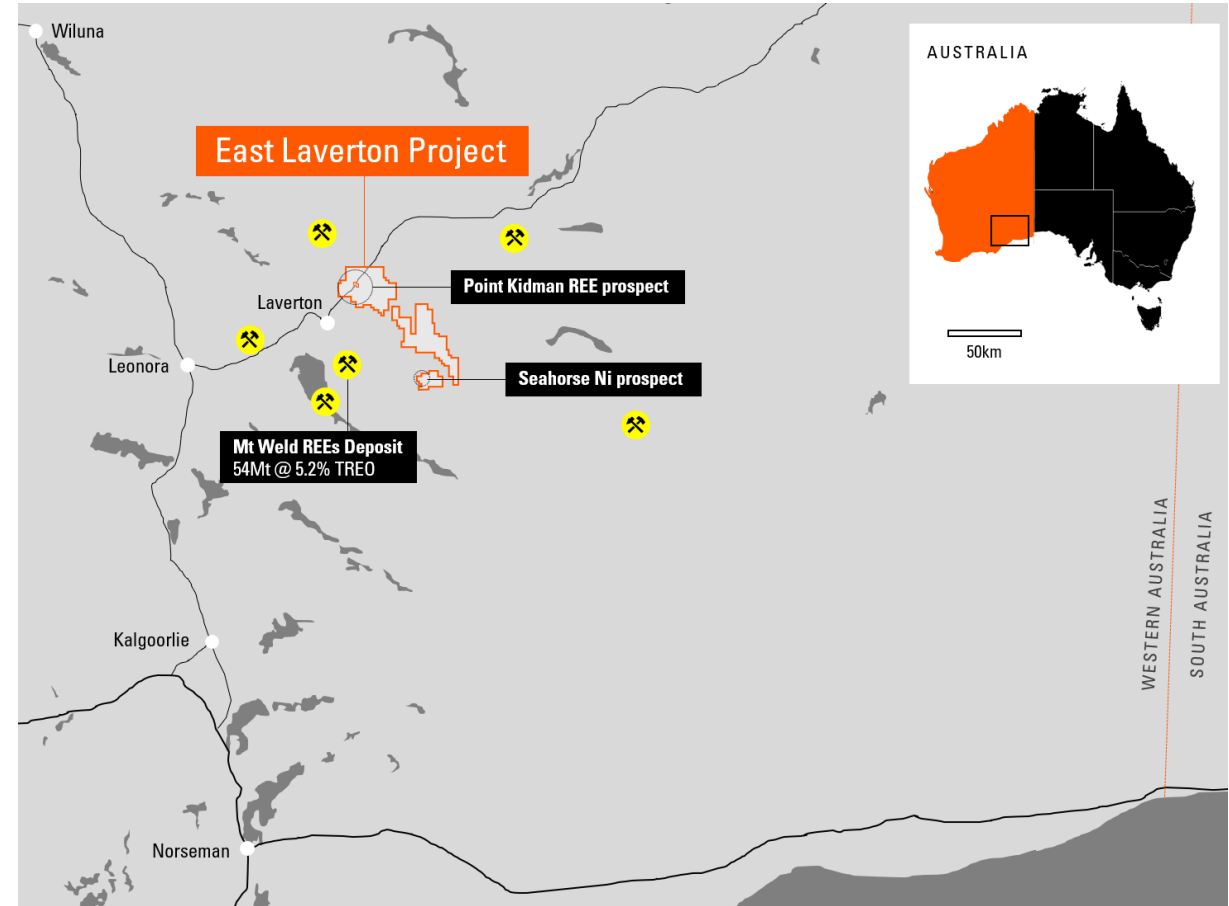
Results

Anomalous REE mineralisation identified over >200km²¹

Intercepts >1,000 ppm TREO identified over 12km²²

19.5% Neodymium (Nd) and Praseodymium (Pr)³.

24.4% Magnet Rare Earth Oxides (MREOs).



¹ Refer to MTM ASX announcement dated 11 October 2023
² Refer to MTM ASX announcement dated 15 May 2023
³ Stated as percentage of total rare earth element oxides (TREO)

BOARD & MANAGEMENT

We've delivered successful outcomes in mining for decades.



John Hannaford

Non-Executive Chairman

An experienced corporate executive with extensive experience in the ASX Resources sector as Corporate Advisor, Executive, Chairman, Company promoter and investor. A qualified Chartered Accountant and Fellow of the Securities Institute of Australia, he is a founder and director of Rockford Partners, a financial services company in Perth, WA.



Lachlan Reynolds

Managing Director

A strong geological background with more than 30 years involvement in mineral exploration, project development and mining. Worked with major mining groups including WMC in gold, nickel, copper and uranium projects covering a number of different regions. Served as an executive and senior manager for a number of ASX and TSX listed companies.



David Izzard

Non-Executive Director

A highly experienced Executive and Non-Executive Director with extensive skills in all aspects of financial and commercial management at a senior executive level in both listed and unlisted companies. Strong knowledge and experience of mining operations and instrumental in the formulation of a number of junior exploration companies.



Tony Hadley

Non-Executive Director

A senior metallurgist with over 30 years of experience within the mining industry. Broad technical knowledge in mineral processing covering flowsheets, project design, engineering and process plant commissioning, flotation, comminution, cracking, leaching, gravity and magnetic separation, and neutralisation of REE concentrates.



Simon Adams

CFO & Company Secretary

An experienced CFO with background in a range of industries including the upstream energy sector, aquaculture (pearl production and distribution), hybrid power systems (design and manufacture) and mining (gold exploration and mining). Skilled in business analysis, negotiation, team building and risk management.

CORPORATE OVERVIEW

Share price

A\$0.07

As at 26 March 2024
52 week high \$0.22, low \$0.02

Market capitalisation

A\$19.7m

As at 27 March 2024

Board & Management ownership

6.7%

As at 27 March 2024

Top 20 ownership

45.9%

As at 27 March 2024

Shares on issue

281.1m

As at 27 March 2024

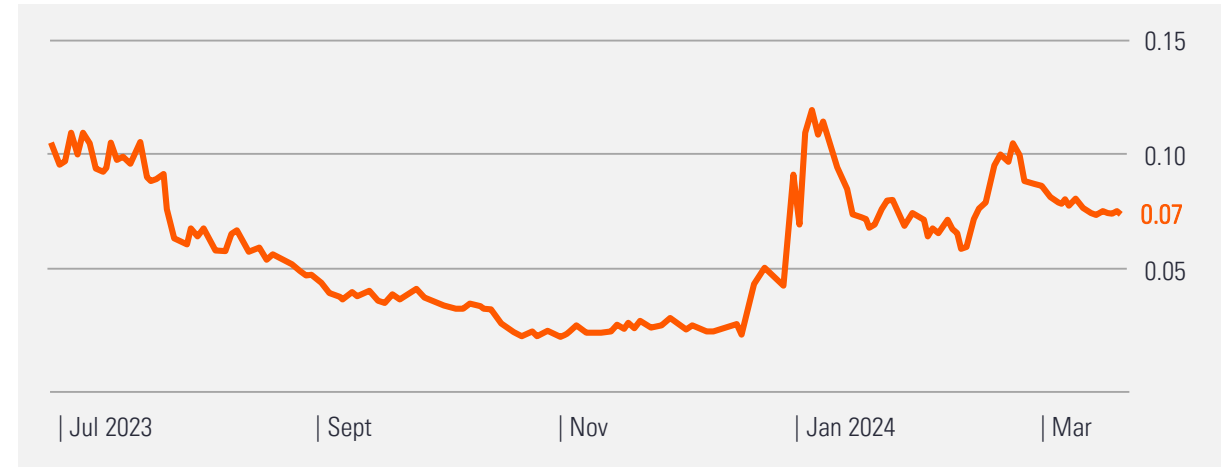
Cash

A\$4.8m

Estimated as at 22 March 2024,
including Share Placement^{1, 2}

ASX Share price performance (\$A)

Financial year to XX March 2024



Listed options (MTMO)

153.9m

As at 27 March 2024

Debt

Nil

¹ Refer to MTM ASX announcement dated 12 January 2024

² Refer to MTM ASX announcement dated 27 March 2024

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 (formerly Mt Monger Resources Limited) ASX Announcements, which are available from the MTM Critical Metals website www.mtmcriticalmetals.com.au and the ASX website www.asx.com.au:

- 15 May 2023 "Drilling confirms further rare earth element mineralisation and increased potential at East Laverton"
- 28 September 2023 "High grade total rare earth element oxide (TREO) drilling results returned over significant widths at the Pomme REE-Nb Project, Québec"
- 11 October 2023 East Laverton Project soil survey defines extensive new rare earth and nickel targets"
- 19 December 2023 "MTM to acquire West Arunta Niobium-REE Project"
- 12 January 2024 "\$7 million Capital Raise to accelerate exploration and future project development"
- 13 March 2024 "MTM formally exercises its option for global licence agreement over flash joule heating"
- 27 March 2024 "Flash Metals acquisition, Tranche 2 of the placement and convertible note settlement completed"

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.

MTM

CRITICAL METALS

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