

NEW LITHIUM PROJECT - YILMIA

Rights Secured over Lithium Prospective Corridor

Investment Highlights

- Zenith Minerals Limited (Zenith) has signed a binding option agreement to secure up to a 100% interest in the lithium rights over tenure near Coolgardie – Western Australia.
- Lithium pegmatite target in greenstone host sequence in a similar geological setting to the recent Kangaroo Hills lithium pegmatite discovery by Future Battery Metals - ASX:FBM (Figures 1 - 2).
- Geophysical data and historic soil geochemistry indicates prospective greenstone sequence likely extends under soil cover, over an 8km long target zone.
- No previous drill testing, with Zenith planning an initial target wide aircore drilling program to test the prospective area for lithium pegmatites.

Managing Director, Michael Clifford said: *"I am pleased to advise that an additional project has been added to the Company's lithium portfolio. We infer from geophysical and geochemical data that the Yilmia Lithium Project contains an 8km long greenstone rock sequence, wrapping around the southern margin of the Woolgangie Monzogranite, that we consider prospective for lithium pegmatites. The recent Kangaroo Hills lithium pegmatite discovery by Future Battery Metals is in a similar setting on the northern margin of the Woolgangie Monzogranite, some 13km to the northwest. We should be able to screen, relatively easily and quickly, the 8km long corridor to assess its lithium potential using industry standard aircore drilling."*

Yilmia Lithium Project

The Yilmia Lithium Project is inferred to contain an 8km long greenstone package that is considered highly prospective for lithium pegmatites on the southern margin of the Woolgangie Monzogranite (Figure 1). A strong aeromagnetic anomaly is coincident with ultramafic and mafic rock units that are shown on government geological maps, further east of the Yilmia project area. That same aeromagnetic anomaly extends through the northern portion of the project area, under soil cover, indicating that the greenstone belt likely extends further west through the Yilmia project tenure (Figures 1& 2). Furthermore, the presence of greenstone within the Yilmia project area, is also supported by a historic soil sampling program and a historical EM geophysical survey that were conducted as part of nickel exploration in the area of interest to Zenith.

A program of aircore drilling is planned to test the lithium target zone with the Company commencing the permitting process to allow the program to proceed.

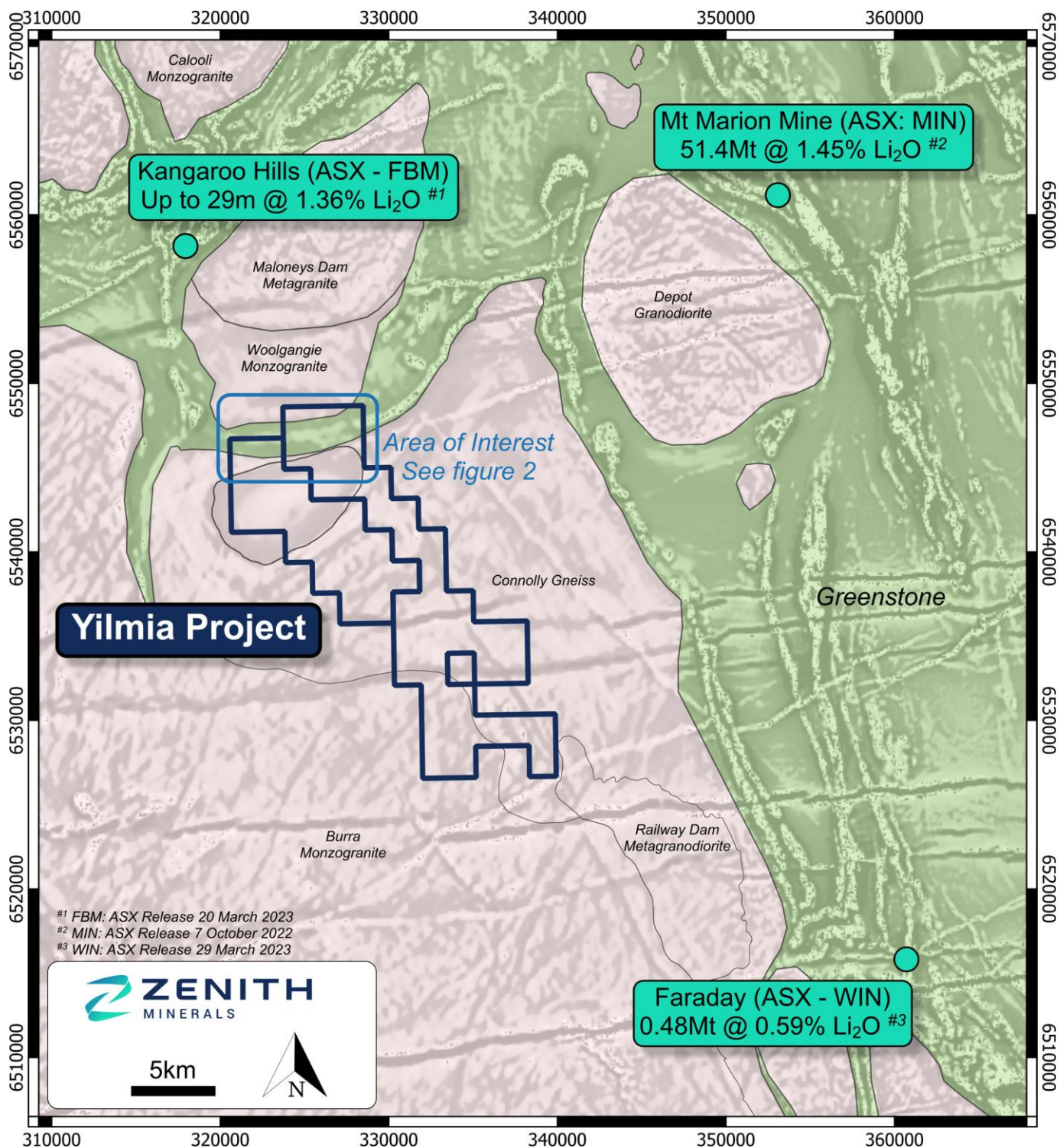


Figure 1: Yilmia Lithium Project - Location Map
(Greenstone Outlines over Aeromagnetic Greyscale _ RTP Image)

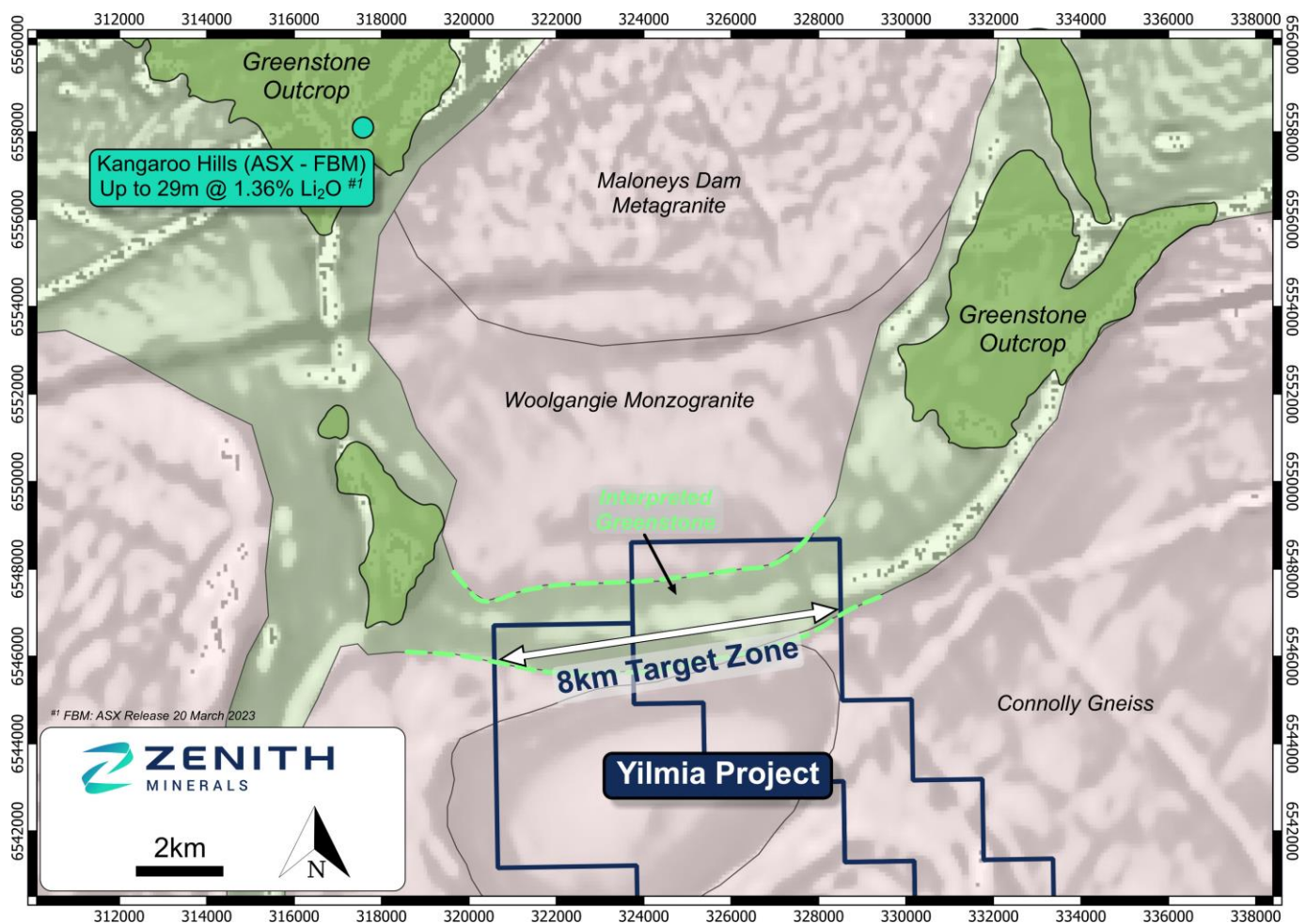


Figure 2: Yilmia Lithium Project – Target Zone Map
(Greenstone Outcrop & Outlines over Aeromagnetic Greyscale _ RTP Image)

Option Terms

In consideration for a non-refundable option fee of \$100,000 cash and \$100,000 worth of ZNC ordinary shares, a wholly owned subsidiary of Zenith has signed a binding agreement with Kalgoorlie Mining Associates Pty Ltd (KMA) that grants Zenith the right to acquire up to a 100% interest, in the lithium and rare earth mineral rights, in two exploration licences (E15/1760 and E15/1783), in the Coolgardie region of Western Australia over a 6-year period.

During the initial 3-year option term Zenith must expend a minimum of \$200,000 on exploration within the project area before it can withdraw. At Zenith's sole election it may choose to exercise the option and acquire a 70% interest in the lithium and rare earth mineral rights for a further cash payment of \$500,000 with KMA retaining a 30% free carried interest in an unincorporated joint venture, until the joint venture seeks to lodge a mining proposal with the Western Australian Department of Mines, Industry Regulation and Safety over a defined area of the project and apply for a mining lease over that area.

Zenith also retains a further option to purchase 100% of the lithium and rare earth mineral rights via the buy-out of the residual 30% project equity for an additional \$5,000,000 cash, at any time, at the sole election of Zenith, within the initial 3-year term or in the following 3-year period (6 years).

In respect to ASX Chapter 10 - KMA is an unrelated party.

This ASX announcement has been authorised by the Board of Zenith Minerals Limited.

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About Zenith Minerals

Zenith Minerals Limited (ASX:ZNC) is an Australian-based minerals exploration company leveraged to the increasing global demand for metals critical to the production processes of new energy industrial sectors.

The Company currently has three lithium projects all located in Western Australia. Two projects, Split Rocks and Waratah Well, are being explored under the terms of a joint venture between Zenith and EV Metals Group (EVM). Split Rocks covers landholdings of approximately 660km² in the Forrestania greenstone belt immediately north of the established Mt Holland lithium deposit. Waratah Well, located approximately 20km northwest of the regional town of Yalgoo in the Murchison Region holds a lithium pegmatite with ongoing exploration required.

In January 2022, Zenith entered into a joint venture with EV Metals Group (EVM), a global battery material and technology company with plans to develop an integrated Battery Chemicals Complex at Yanbu Industrial City on the western coast of Saudi Arabia. EVM can earn a 60% interest in the lithium rights on two lithium projects, Split Rocks and Waratah Well, with Zenith retaining a 40% project share. Under the terms of the agreement Zenith is fully funded by EVM through to a bankable feasibility on any project development, such a study must be completed by January 2024.

Zenith has an additional two lithium projects. In January 2023, Zenith secured an option to acquire 100% of the Hayes Hill lithium – nickel project, located in the Norseman – Widgiemooltha area of Western Australia. A further project Yilmia, covers an 8km long lithium prospective area in the Coolgardie district, some 13km southeast of the recent Kangaroo Hills lithium discovery by ASX:FBM. Zenith may earn up to a 100% interest in the lithium rights at the Yilmia project.

In addition to its battery metal assets Zenith owns a portfolio of gold and base metal projects. It retains a 25% free carried interest (to end bankable feasibility study) on the Earahedy Zinc discovery, in Western Australia, with Rumble Resources Limited (ASX:RTR) and two main gold projects – Red Mountain in Queensland and Split Rocks in Western Australia.

To learn more, please visit www.zenithminerals.com.au

Competent Persons Statement

The information in this report that relates to Exploration Results and Mineral Resources is based on information compiled by Mr Michael Clifford, who is a Member of the Australian Institute of Geoscientists and an employee of Zenith Minerals Limited. Mr Clifford has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Clifford consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Material ASX Releases Previously Released

The Company has released all material information that relates to Exploration Results, Mineral Resources and Reserves, Economic Studies and Production for the Company's Projects on a continuous basis to the ASX and in compliance with JORC 2012. The Company confirms that it is not aware of any new information that materially affects the content of this ASX release and that the material assumptions and technical parameters remain.