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## EXPLORATION UNDERWAY ACROSS HIGH-GRADE LITHIUM PROJECTS IN ZIMBABWE

#### Highlights:

- **Extensive surface mapping and sampling programme underway at Arcturas Lithium Project area.**
- **New drill target generation and data processing to be undertaken simultaneously as the mapping progresses.**
- **Several outcropping pegmatites at least 1000m long within a 50m-wide corridor.**
- **Drilling is planned following completion of the surface mapping and sampling.**
- **Recent rock chip samples at the Arcturas Project have returned grades up to 2.5% Li<sub>2</sub>O and at the Beatrice Project 2.1% Li<sub>2</sub>O from the surface outcrops.**
- **Arcturas claims are located close to the world-class Arcadia lithium-producing mine in Zimbabwe.**
- **The lithium minerals consist of spodumene and lepidolite-bearing pegmatites and are populated by several artisanal workings and pegmatite surface outcrops.**
- **Exploration will move to Beatrice Project area following completion at Arcturas.**

Critical metals exploration and development company MetalsGrove Mining Limited (ASX: MGA), ("MetalsGrove" "MGA" or the "Company"), is pleased to advise that the Company's technical team has commenced exploration work at the Arcturas Lithium Project (ALP) in Zimbabwe.

This is the Company's first exploration programme in Zimbabwe since entering into a strategic agreement to acquire six, contiguous and highly prospective lithium-tin-tantalum claims (ASX release dated 11 December 2023).

The maiden exploration campaign will include detailed surface mapping and sampling in order to generate and refine priority target areas for drilling. Activity will initially focus on the highly prospective Arcturas Project area before shifting to the Beatrice Project (BLP).

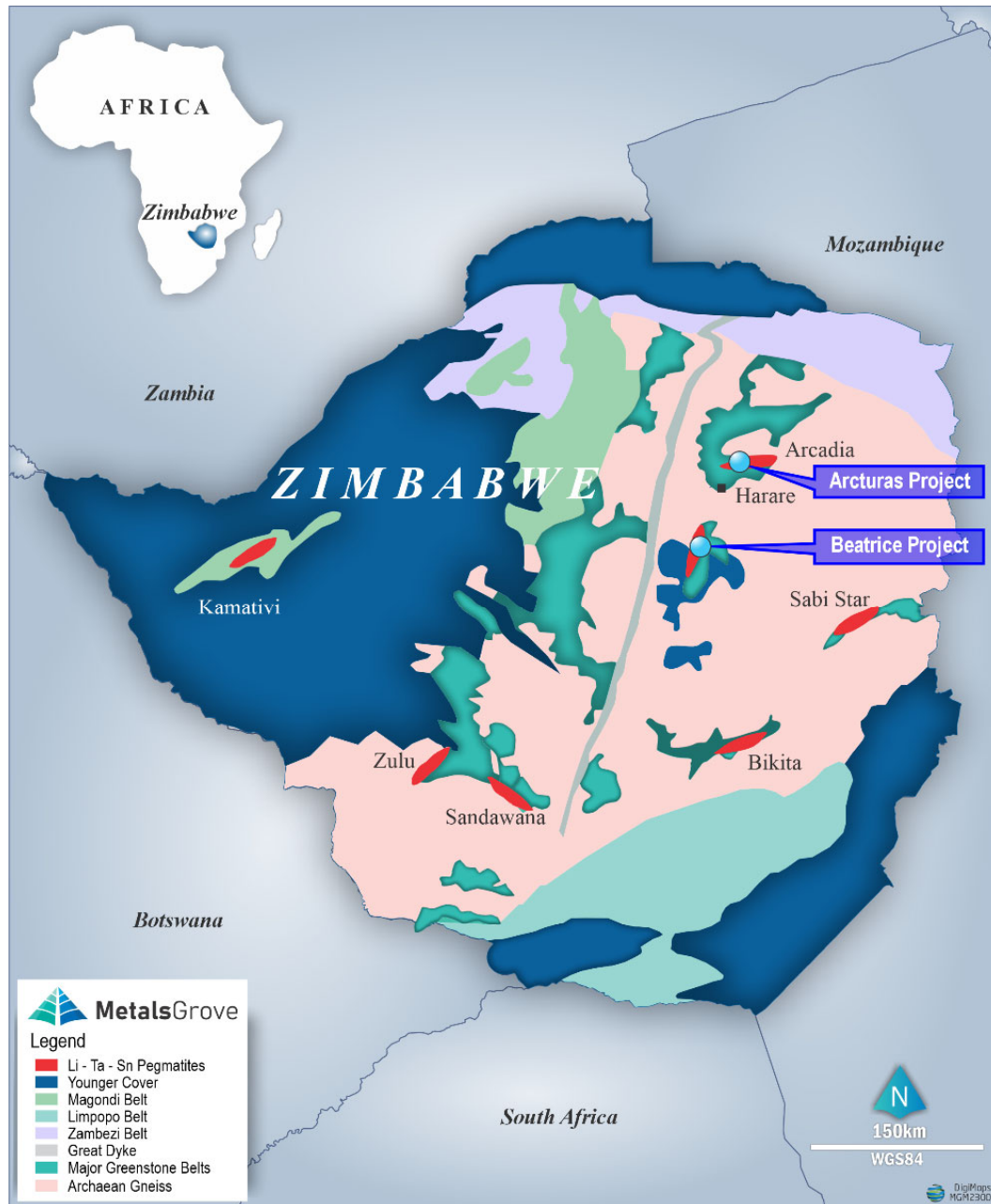
The ALP is situated 35km northeast of Harare and the BLP is located 55km south of Harare in Zimbabwe, including six new lithium claims 510ha (Figure 1). The ALP is close to the Arcadia Lithium Mine and Arcturas Gold Mine. The region is the most well-known pegmatite zone that is mineralised in **spodumene, lepidolite, beryllium, tantalum and caesium.**

**Commenting on commencement of field work in Zimbabwe, MetalsGrove's Managing Director, Sean Sivasamy said:** "We have moved very quickly to get this maiden exploration program underway in Zimbabwe and we are excited to be on the ground in this highly prospective lithium district.

Our initial focus is on completing the necessary surface mapping and sampling across both Arcturas and Beatrice as this will enable our team to start refining our priority drill target areas. These are advanced assets in a proven mining jurisdiction, so we are confident that we can add significant value through a targeted approach to exploration. We look forward to reporting further updates over the coming weeks."

## ARCTURAS LITHIUM PROJECT

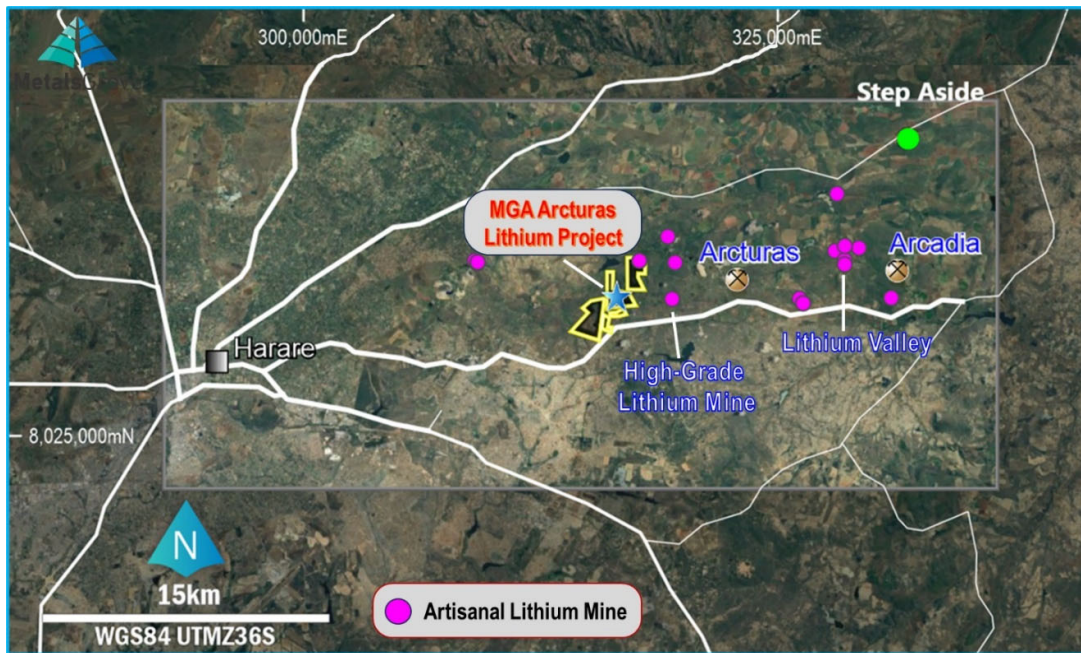
An extensive exploration and mining review was carried out within the project area. Based on the Company's review of existing publicly available information (including historic exploration, trenching and production history), MGA believes that there may be the potential for a large open cut mine to be established, subject to positive exploration results.



*Figure 1: Project Location (Arcturas and Beatrice Projects).*

The Arcturas Lithium Project could be developed independently, depending on the results of exploration and mineral resource delineation. The project contains a significant number of pegmatite outcrops that extend up to 1000m on strike within a 50m wide lithium corridor with thick flat laying beds of mineralised pegmatite and are host to artisanal mine workings for lithium.





*Figure 2: Arcturas Lithium Prospect Location Plan*

Recent rock chip sample assay results for **Arcturas** returned up to **2.5% Li<sub>2</sub>O**. These samples are from a surface outcrop of the pegmatite (Table 1).

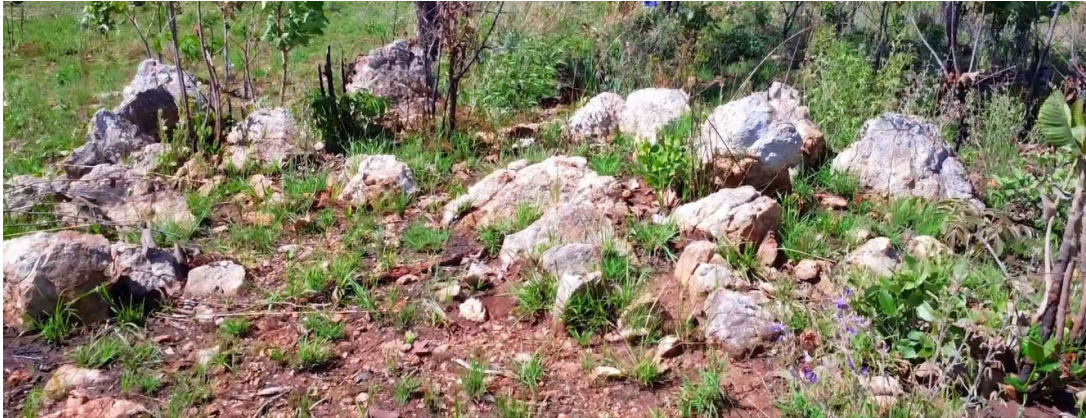


*Figure 3: Exploration Team at the Arcturas Lithium Project.*



## FIELD PHOTOS OF THE SPODUMENE AND LEPIDOLITE PEGMATITE OUTCROPS

The project contains a significant number of pegmatite outcrops that extend up to 1000m on strike and with 50m corridor, flat laying beds of mineralised lithium pegmatite.



*Figure 4: Spodumene/Lepidolite Pegmatite Outcrop at Arcturas (Zone 36 S 316114mE, 8030581mN).*



*Figure 5: large Pegmatite outcrop with historical trench at Arcturas (zone 36 S 316461mE, 8031383mN).*





*Figure 6: Pegmatite Outcrop with Historical Trench at Arcturas (Zone 36 S 315090mE, 8031178mN).*



*Figure 7: 1000m Long Pegmatite Outcrop Cut Through Goromonzi Greenstone belt at Arcturas (Zone 36 S 316031mE, 8032002mN).*





*Figure 8: Flat Lying Known Pegmatite Outcrop at Arcturas (Zone 36 S 316046mE, 8032014mN).*



*Figure 9: Large Pegmatite Outcrop with Historical Trench at Arcturas (Zone 36 S 316862mE, 8031460mN).*

| Sample ID  | East   | North   | Li <sub>2</sub> O (%) |
|------------|--------|---------|-----------------------|
| 2023/LRAC  | 315192 | 8031495 | 2.50                  |
| 2023/MICAH | 316500 | 8031700 | 0.05                  |

*Table 1: Surface Rock Chip Sample Assay Result - Arcturas Project.*

**-ENDS-**

Authorised for release by the MetalsGrove Mining Limited Board of Directors.

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## About MetalsGrove

MetalsGrove Mining Limited (ASX: MGA) is an Australian-based exploration and development company, focused on the exploration and development of its portfolio of high-quality lithium, rare earth, copper-gold, manganese and base metal projects in Western Australia and the Northern Territory.

The expanding market for lithium concentrates has compelled MGA to broaden its geographical strategy to review opportunities for exploration in developing LCT pegmatite belts across the globe.

MGA is committed to green metal exploration and development to meet the growing demand from the battery storage and renewable energy markets in the transition to a de-carbonised world.

## Competent Person Statement – Exploration Strategy

The information in this announcement that relates to exploration strategy has been developed by Sean Sivasamy. All assay results have been compiled by Mr Sivasamy who is a member of Australasian Institute of Mining and Metallurgy. Mr Sivasamy is Managing Director and CEO of MetalsGrove Mining Limited.

Mr Sivasamy has sufficient experience which is relevant to the style of mineralisation and exploration processes as reported herein 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 Sivasamy consents to the inclusion in this announcement of the information contained herein, in the form and context in which it appears.

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