

## Significant Lithium Potential identified at DOM's Hill Project, East Pilbara WA

### Highlights

- Recent studies and a field reconnaissance exercise have identified significant pegmatite-hosted lithium mineralisation potential at Kalamazoo's 100% owned gold and base metals DOM's Hill Project, East Pilbara WA
- Kalamazoo considers this to be a major development with this East Pilbara region hosting two of the world's largest pegmatite-hosted lithium mines at Pilgangoora (Pilbara Minerals ASX: PLS) and Wodgina (Mineral Resources ASX: MIN)
- The DOM's Hill Project (122km<sup>2</sup>) covers highly prospective Archaean granite-greenstone terrane as shared by the nearby Pilgangoora and Wodgina lithium deposits and consists of four granted Exploration Licences (E45/4722, E45/4887, E45/4919 and E45/5146) and three Exploration Licence Applications (E45/5934, E45/5935 and E45/5943)
- The DOM's Hill Project includes >25km strike extent of prospective 1-10km wide Archaean granite-greenstone contact zone, otherwise known as the "Goldilocks Zone" which is highly prospective for pegmatite-hosted lithium mineralisation
- The excellent lithium prospectivity of DOM's Hill is supported by recent field reconnaissance that identified the presence of sparsely outcropping pegmatites located within the targeted granite-greenstone contact zone
- KZR has initiated a focused exploration program including first-pass soil sample analyses and further field exploration reconnaissance activities to fast-track to a drill-ready status

**Kalamazoo's Director Paul Adams said today,** "The identification of lithium potential at the DOM's Hill Project is a fantastic development for Kalamazoo, particularly as interest in lithium is at a heightened level due to strong long-range forecasts for lithium demand and price. Located within the sweet spot of one of the world's major hard-rock lithium regions, our DOM's Hill Project is 65km to the east of Pilbara Minerals' Pilgangoora Lithium Mine and Mineral Resources' Wodgina Lithium Mine and given the identification of its lithium potential, now demands a very focused exploration program.

*A well-designed lithium exploration program at DOM's Hill is now a key focus for the Company and is a terrific addition to our current exploration and development activities at our major Victorian and Western Australian gold projects."*

#### Perth

16 Douro Place  
West Perth WA 6005  
1300 782 988

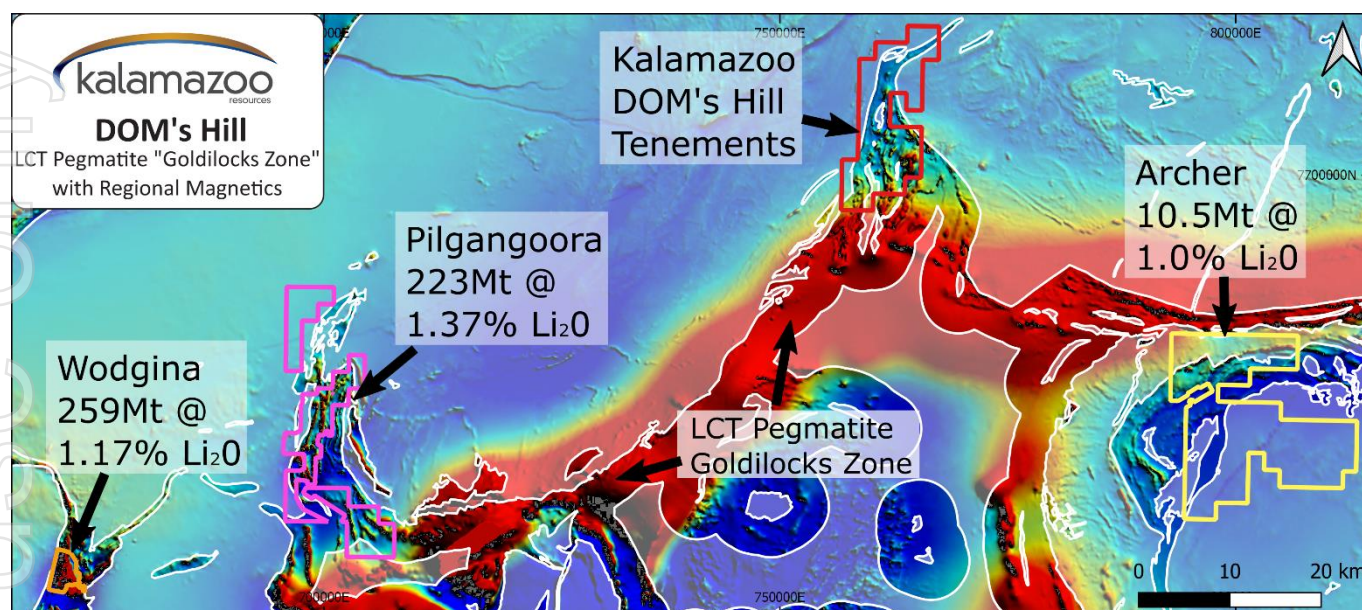
#### ASX: KZR

ACN: 150 026 850  
admin@kzr.com.au  
[www.kzr.com.au](http://www.kzr.com.au)

#### Melbourne

Unit 3, 328 Reserve Road  
Cheltenham VIC 3192  
+61 3 9988 7796

Kalamazoo Resources Limited (**ASX: KZR**) (“Kalamazoo” or the “Company”) is pleased to advise that recent studies and a field reconnaissance exercise have identified significant pegmatite-hosted lithium (Li) potential at its 100% owned DOM's Hill Project, East Pilbara WA. Significantly, the project contains a similar geological setting and target host rocks strongly analogous to that of the nearby world class Pilgangoora and Wodgina pegmatite-hosted lithium deposits (Figure 1).



**Figure 1:** Location of the DOM's Hill Project with respect to the Pilgangoora and Wodgina lithium mines and the Archer lithium deposit on a background WA regional-scale aeromagnetic image<sup>1</sup>. The interpreted “Goldilocks Zone” is defined as a 4km wide zone located along the Archaean granite-greenstone contact area.

The Li mineralisation potential of the DOM's Hill Project was initially highlighted during a recent project technical review completed by Dr Nigel Brand, a noted WA-based lithium geochemistry expert. Dr Brand concluded that the project area geology was analogous to that of the nearby Pilgangoora and Wodgina Li deposits. The project geology for the region, and in particular the granite-greenstone contact zone, or “Goldilocks Zone”, is clearly shown in the WA regional scale aeromagnetic image (Figure 1).

A key component of Dr Brand's review included an evaluation of the large amount of historical soil samples that exist across the project which concluded that the bulk of the samples were either not assayed for Li and its pathfinder elements or were analysed using sub-optimal aqua regia digestion (Figure 2).

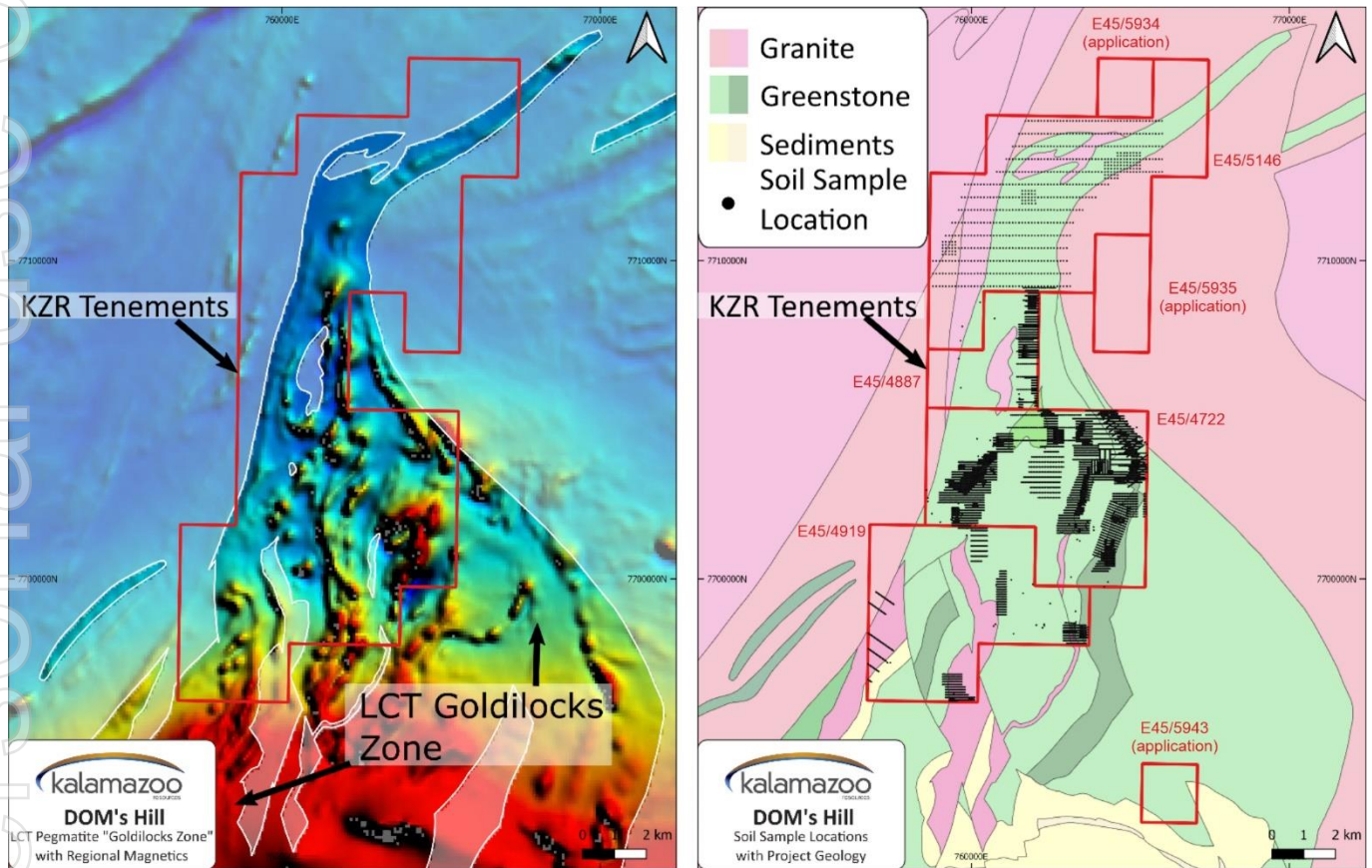
A subsequent field reconnaissance exercise completed in early July 2021 at DOM's Hill by experienced WA-based lithium geologist Brian Richardson has now identified localised outcrops of pegmatites within some target prospect areas. Rock chip samples collected from these outcropping pegmatite samples will soon be submitted for laboratory assay analysis.

Based on this early work and its regional setting, Kalamazoo now considers that the DOM's Hill Project area is highly prospective for rare-element granitic pegmatites of the Lithium-Caesium-Tantalum (LCT) geochemical group. The DOM's Hill Project hosts a significant strike extent of granite and greenstone contact, which is recognised as a prime Goldilocks Zone for LCT style pegmatites. Furthermore, the known presence of relatively ‘younger’ granites of the Sisters Supersuite, nearby to the south of the DOM's Hill Project, is encouraging as they are inferred to possibly be the ultimate source for the significant lithium, tantalum and tin mineralisation of the East Pilbara Region.

<sup>1</sup> Refer to the Western Australian Department of Mines, Industry Regulation and Safety website: Lithium in Western Australia poster – June 2021

The project area overlies the Warralong Doolena Gap and Marble Bar Greenstone Belts as well as the unconformably overlying Gorge Range Group, the younger Lallah Rookh Synclinorium and the overlying Fortescue Group. The tenements cover the major domain bounding Gorge Range, Muccan South and Bamboo Creek Shear Zones, as well as numerous second order shear zones including the DOM's Hill Shear Zone and the North-East Fault.

The project area is and has historically been considered prospective for a range of gold, nickel, cobalt and base metal deposits. Past exploration has highlighted the potential for shear hosted lode gold mineralisation with a number of advanced targets identified. Numerous gold nuggets have been discovered in the area<sup>2</sup>, however despite its close proximity to two of the world's largest hard-rock lithium mines, there has been no previous exploration for lithium ever undertaken at the DOM's Hill Project. This may be partly explained by some of the project area being overlain by a thin veneer of younger sedimentary cover.



**Figure 2: (LHS)** Location of Kalamazoo's DOM's Hill Exploration Licences with respect to the interpreted "Goldilocks Zone" for LCT pegmatite mineralization on a background regional aeromagnetic image; and **(RHS)** distribution of Kalamazoo and historical soil and rock chip sampling across the DOM's Hill Project. Note that the recent soil samples collected by Kalamazoo in the northern Exploration Licence E45/5146 are currently the subject of re-assaying whilst the remaining historical surface samples are deemed ineffective/non-existent for Li exploration.

<sup>2</sup> ASX: KZR 6 October 2017, ASX: KZR 2 December 2019



## Next Steps

Kalamazoo's priority at DOM's Hill is to now focus on advancing towards a drill-ready status, which will include the following:

- Re-assaying of the 732 Ultrafine soil sample pulps from E45/5146 for lithium and associated pathfinder elements
- Locating historical soil sample pulps for potential re-assaying
- Where required, conduct new soil sampling programs across the interpreted Goldilocks Target Zone, which may involve the use of auger drilling in areas of thin cover
- Further field reconnaissance and mapping campaigns

**For further information, please contact:**

**Luke Reinehr**  
Chairman/CEO  
[luke.reinehr@kzr.com.au](mailto:luke.reinehr@kzr.com.au)

Media & Investor Relations (Australia)  
**Victoria Humphries**  
[victoria@nwrcommunications.com.au](mailto:victoria@nwrcommunications.com.au)

Media & Investor Relations (Canada)  
**Leo Karabelas:** [leo@fcr.ca](mailto:leo@fcr.ca)  
**Tom Panoulis:** [tom@fcr.ca](mailto:tom@fcr.ca)

## Previously Released ASX Material References

For further details relating to information in this announcement please refer to the following ASX announcements:

ASX: KZR 6 October 2017  
ASX: KZR 2 December 2019

## **Cautionary Statement**

It should be noted that the information in this announcement is based only on visual field observations and soil geochemistry analyses that were less than optimal. Assay results for the rock chip samples collected from the outcropping pegmatites and the re-assaying of the Kalamazoo soil samples are yet to be received. The Company has not yet confirmed whether lithium mineralisation is present, given that this can only be determined through laboratory analysis.

## **Response to COVID-19**

Kalamazoo has been proactively managing the potential impact of COVID-19 and has developed systems and policies to ensure the health and safety of its employees and contractors, and of limiting risk to its operations. These systems and policies have been developed in line with the formal guidance of State and Federal health authorities and with the assistance of its contractors and will be updated should the formal guidance change. Kalamazoo's first and foremost priority is the health and wellbeing of its employees and contractors.

To ensure the health and wellbeing of its employees and contractors, Kalamazoo has implemented a range of measures to minimise the risk of infection and rate of transmission to COVID-19 whilst continuing to operate. All operations and activities have been minimised only to what is deemed essential. Implemented measures include employees and contractors completing COVID-19 risk monitoring, increased hygiene practices, the banning of non-essential travel for the foreseeable future, establishing strong infection control systems and protocols across the business and facilitating remote working arrangements, where practicable and requested. Kalamazoo will continue to monitor the formal requirements and guidance of State and Federal health authorities and act accordingly.

## **Competent Persons Statement**

The information for the DOM's Hill Project is based on information compiled by Dr Luke Mortimer, a competent person who is a Member of The Australian Institute of Geoscientists. Dr Mortimer is an employee engaged as the Exploration Manager Eastern Australia for the Company and 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'. Dr Mortimer consents to the inclusion in this document of the matters based on his information in the form and context in which it appears.

## **Forward Looking Statements**

Statements regarding Kalamazoo's plans with respect to its mineral properties and programs are forward-looking statements. There can be no assurance that Kalamazoo's plans for development of its mineral properties will proceed as currently expected. There can also be no assurance that Kalamazoo will be able to confirm the presence of additional mineral resources/reserves, that any mineralisation will prove to be economic or that a mine will successfully be developed on any of Kalamazoo's mineral properties. The performance of Kalamazoo may be influenced by a number of factors which are outside the control of the Company and its Directors, staff and contractors.