

9 June 2023

## PHASE 1 DRILL CAMPAIGN UNDERWAY AT MORTIMER HILLS LITHIUM PROJECT



Figure 1 – Photo of drill rig at Mortimer Hills Lithium Project

### HIGHLIGHTS

**Phase 1 drill program has commenced at Mortimer Hills Lithium Project, Gascoyne Region, Western Australia.**

- The Phase 1 drilling program for about 1,700m has commenced (Figure 1) and will concentrate on drilling directly into the mapped pegmatites from surface as well as testing geochemical anomalies outlined using a hand-held pXRF.
- The mapped pegmatites are centrally located in E09/2147 and are found similarly across the granite greenstone contact, along strike from the Yinnietharra Lithium Project (<https://deltalithium.com.au/our-projects/yinnetharra-lithium/>) being developed by Delta Lithium Limited (ASX: DLI) to the northwest and the Ti Tree Lithium Project (<https://www.voltaicresources.com/site/projects/overview>) by Voltaic Strategic Resources Ltd (ASX:VSR) to the southeast (Figure 2).
- A large number of outcropping pegmatites and geochemical anomalies have been identified at the Pegmatite Creek Prospect area of the Mortimer Hills Project by previous field work. A soil geochemical carried out prior to the Phase 1 drilling program, and more pegmatite outcrops with tourmaline alteration were discovered in western part of E09/2147 which is closer to DLI's Yinnietharra Lithium Project.
- The Aboriginal Heritage Desktop Assessment of the Mortimer Hills Project covering the two planned phases of drilling over the extent of the pegmatite target area has been finalised.

- Phase 1 drilling program and the geochemical anomalies testing will provide important geological details to help the company better understand the regional pegmatite systems and guide further drilling activities toward prime lithium targets.
- All drilling targets are within “Volta Corridor” (Figure 2) – a major lithium-bearing pegmatite belt in which DLI is developing and enlarging the Yinnietharra Lithium Project on a neighbouring tenement.
- A Program of Work (PoW) for Phase 2 drilling has been approved to cover follow-up drilling on the interpreted extent of the prospective lithium ground on E09/2147, closer to the growing DLI’s Yinnietharra Lithium Project.
- Other companies in the region have achieved exciting exploration results recently. VSR intercepted widths of up to 58 m of continuous pegmatite from the surface at its Andrada Prospect, Ti Tree Project **(See VSR announcement dated 09 May 2023)**.

Zeus Resources Ltd (ACN 139 183 190) (ASX: **ZEU**) (“**Zeus**” or “the **Company**”) is pleased to announce that the Company has completed a geochemical anomaly testing program and commenced Phase 1 drilling program on 8 June 2023 at its Mortimer Hills Lithium Project (E09/2147), approximately 130 km northeast of Gascoyne Junction in Western Australia.

*“This is the first drilling campaign since the Company successfully got reinstated to official trading in February 2023. The Board of the Company is extremely excited about the commencement of Phase 1 drilling program.” said Mr Jian (Daniel) Liu, Executive Director of Zeus.*

## **MORTIMER HILLS LITHIUM PROJECT (E09/2147, E09/2791 & E09/2798)**

### **GEOLOGY**

The Mortimer Hills Project sits along the northern edge of the Thirty-Three supersuite, a belt of primarily of foliated metamonzogranite, monzogranite and granodiorite plutons in contact with the Pooranoo Metamorphics.

Rare-earth and lithium bearing pegmatites have been identified on the Mortimer Hill Project and in particular at the nearby Yinnietharra Lithium Project being developed by DLI, in the vicinity of the Thirty Three supersuite granites in the area (Figure 3).

DLI’s Yinnietharra Project immediately to the west of Zeus’ E09/2147 tenement has identified the Thirty-Three Supersuite as a fertile parent granitoid with the potential to generate LCT Pegmatite swarms up to 500 to 3,000 m out from the parent granitoid.

The Thirty-Three Supersuite and Morrissey Metamorphic Suite extend east-southeast from the Yinnietharra Project (DLI) into Zeus’ tenement. Zeus therefore considers that E09/2147 has substantial potential LCT pegmatite mineralisation. Extensive tourmaline alteration of the country-

rock found within the tenement also suggests the Thirty-Three Supersuite is highly fractionated and has the potential to generate LCT pegmatites.

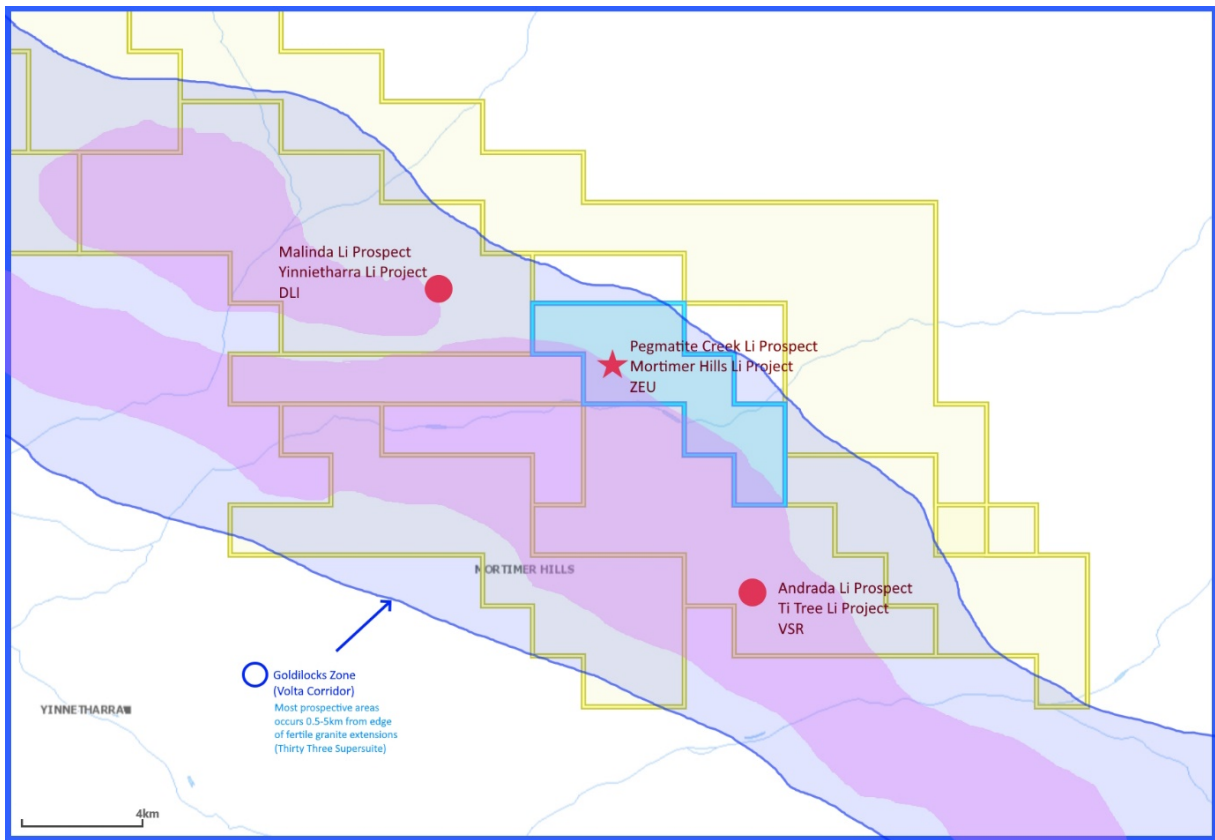


Figure 2: Locations of Mortimer Hills Project (ZEU), Yinnietharra Li Project (DLI) and Ti Tree Project (VSR)

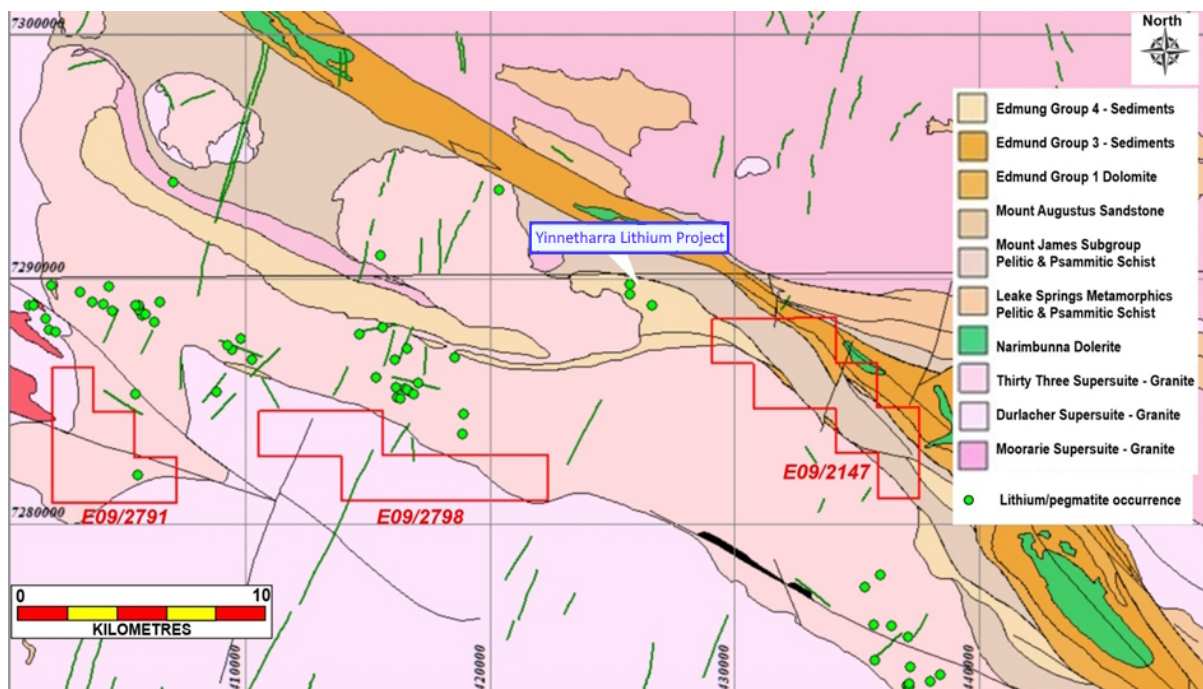


Figure 3: Regional geology at Mortimer Hills Lithium Project

## RECENT EXPLORATION

At the Pegmatite Creek Prospect numerous pegmatites have been exposed by erosion along the flanks of the intrusive granite.

Earlier this month Zeus' geologists commenced a reconnaissance gridded soil geochemical survey using a hand-held portable XRF (pXRF) over the extent of the planned Phase 1 and Phase 2 drilling to determine if the pXRF provided sufficient geochemical data to identify pegmatites buried below surficial soils. Lithium, being a light element with an atomic mass of just 6.9, cannot be detected by an XRF so other indicator elements associated with lithium bearing pegmatites including rubidium (Rb), cerium (Ce), tantalum (Ta) and tin (Sn) are used as proxies for lithium. Several anomalous Sn and Ce zones were identified during this pXRF survey, some of which will be tested in this first phase of drilling. Several new pegmatite outcrops with anomalous geochemistry and extensive tourmaline float at the surface were also found during this survey (Figure 4). This pXRF survey is ongoing.



Figure 4 – Testing large tourmaline boulder with pXRF at newly discovered pegmatite outcrop.

## PHASE 1 DRILLING PROGRAM

The Company commenced the Phase 1 drilling in Mortimer Hills Project on 8 June 2023. Zeus intends to progressively RC drill on an appropriate grid, along strike of the Yinnietharra Lithium Project (**DLI**) pegmatites, along the contact between the Thirty Three supersuite granites and the Pooranoo Metamorphics.

The initial drilling will concentrate directly on the mapped pegmatites centrally located in E09/2147 as well as the new outcrops with geochemical anomalies identified during the hand-held pXRF survey across the granite greenstone contact in the northwest of E09/2147, close to DLI's Yinnietharra tenement (Figure 5). The number of holes drilled at each of the four main target areas,

and therefore the total metres drilled in the program, will depend on the quantity and quality of any pegmatites intersected during the drilling but the current expectation is that approximately 1,700 m will be drilled during this first phase.

This drilling will allow Zeus' geologists gain a better understanding of the continuity, chemical zoning, and structural controls of the pegmatites within the tenement and provide all the necessary data required to target the next phase of drilling.

All the drilling will be Reverse Circulation (RC) with the holes inclined at 60 degrees to the west. The hole depths and spacing along the section lines is designed to have 100% horizontal coverage such that the base of a hole is directly below the collar of the next hole along the section line. This configuration ensures that any vertical pegmatites or dipping towards the east (as indicated by the field mapping) will be intersected by this drilling.

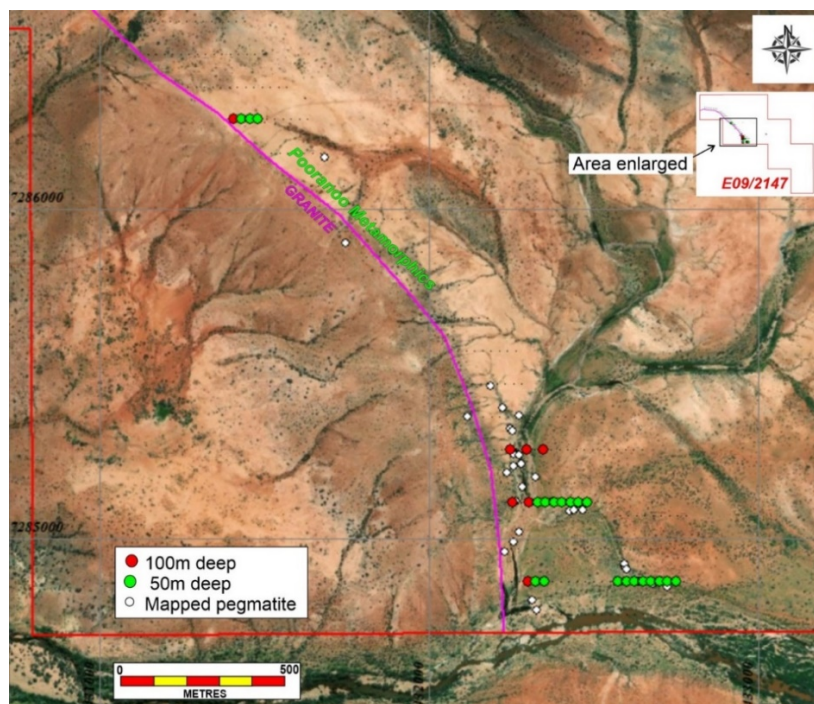


Figure 5: Planned RC drilling at Mortimer Hills Project – Phase 1

## PHASE 2 DRILLING

Phase 2 drilling will cover more prospective areas closer to the Yinnietharra Lithium Project (DLI). The PoW for Phase 2 drilling has been approved.

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**Competent Person Statement:**

*The information in this announcement that relates to the Exploration Results is based on information compiled by Mr Phil Jones, who is a Member of the Australian Institute of Geologists (AIG) and Australian Institute of Mining and Metallurgy (AusIMM). Mr Jones is an independent geological consultancy. Mr Jones does not nor has had previously, any material interest in Zeus or the mineral properties in which Zeus has an interest. Phil Jones's relationship with Zeus is solely one of professional association between client and independent consultant. Mr Jones has experience in exploration, prospect evaluation, project development, open pit and underground mining and management roles. Mr Jones has worked in a wide variety of commodities including gold, lithium, iron ore, phosphate, copper, lead, zinc, silver, nickel and silica in Australia, China, Kyrgyzstan, Indonesia, New Zealand, Malaysia, Papua New Guinea, and Africa. Mr Jones has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken 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 Jones consents to the inclusion in this release of the matters based on his information in the form and context in which it appears.*

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This announcement was authorised for release to the ASX by the Board of the Company.

ENDS

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