



ASX ANNOUNCEMENT

18 August 2022

## Phase 2 diamond drilling underway at Helios targeting IOCG-style mineralisation

### Highlights:

- Second diamond drill hole underway at Helios Project in WA as NMR continues to target IOCG-style mineralisation in the Nullarbor region of WA
- Drilling will target the center of a gravity high identified in ground-based gravity survey
- Drilling is co-funded via a \$220,000 grant awarded by the Western Australian Department of Mines, Industry Regulation and Safety (DMIRS) as part of its Exploration Incentive Scheme (EIS)
- Maiden diamond hole at Helios intersected IOCG-style hematite- and magnetite-dominated alteration – similar to other large Australian IOCG deposits
- Recently completed diamond hole at NMR's Central IOCG target located 110km south of Helios has returned encouraging initial observations including multiphase hydrothermal alteration

Native Mineral Resources Holdings Limited (ASX: NMR), or ("NMR" the "Company"), is pleased to announce that a second diamond drill hole has commenced targeting of IOCG-style mineralisation at its 100%-owned Helios Project, located in the Nullarbor region of Western Australia.

Drill hole HELIOS\_DD002 will be completed to a target depth of ~800m and will follow-up the identification of IOCG-style hematite and magnetite alteration in drill hole HELIOS\_DD001 reported in May. NMR is also utilising the \$220,000 grant received from the Western Australian Exploration Incentive Scheme (EIS) (refer to announcement 2 May 2022) to complete this important phase of drilling.

### Management Commentary

**NMR's Managing Director, Blake Cannavo, commented:** "We are thrilled to be drilling our second diamond hole at Helios which has been specifically designed to target the alteration identified in our maiden drill hole which has strong similarities to large IOCG systems such as the Ernest Henry deposit.

NMR is one of the only explorers to have completed diamond drilling in this part of the Nullarbor region, so the fact that we are generating such positive outcomes from our initial drill holes is highly encouraging and points to the significant potential of this region. We have an aggressive exploration pipeline mapped out for our entire project suite over the coming months and I look forward to providing progress updates at regular intervals."



*Figure 1. Photo of Rig19 getting ready for action at NMR's Helios drill site.*



*Figure 2. Image of the first samples of HQ diamond drill core from Helios\_DD002. The drill core is HQ diameter and shows pervasive alteration of the host granite.*

## Helios Gravity Survey Summary

NMR have already obtained positive results from forward modelling of its high-resolution drone-based magnetics data and, based on these findings, has completed a single diamond drill hole to a depth of 500m. Following the completion of Helios\_DD001, NMR undertook a detailed ground gravity survey (refer to announcement 23<sup>rd</sup> May, 2022). The results revealed a gravity high to the west of the magnetic high. Consequently, the current drill hole is aimed at testing the composition of the rocks triggering the gravity high response. The planned diamond drill hole is an EIS co-funded hole specifically designed to follow up on current results (refer to announcement 2<sup>nd</sup> May, 2022).

The Helios\_DD002 drill hole has been oriented to target a modelled gravity anomaly located at approximately 300-350m below the surface and structurally above the C1 magnetic unit (Figure 3).

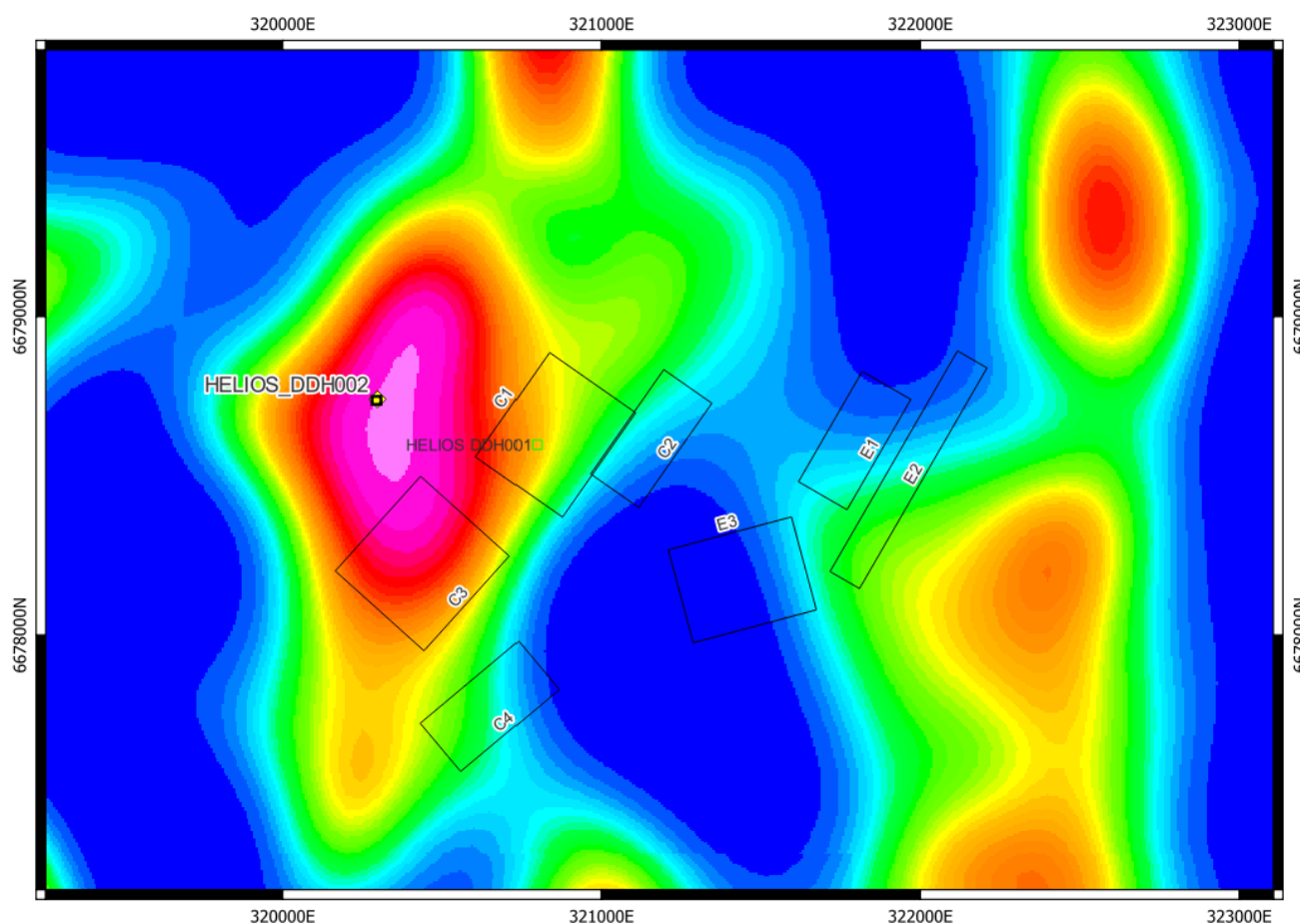


Figure 3. Map showing the location of drill collar Helios\_DD002 superimposed on gravity inversion -400m RL level depth slices. Also shown are the modelled magnetic bodies C1 and C2 with the drill hole aimed at the center of the gravity high. Grid is UTM Z52J.



## NORTHERN NULLARBOR - HELIOS IOCG TARGET, WA (E69-3852)

NMR has been granted three tenements in the Nullarbor region of SE Western Australia (E69/3849, E69/3850 and E69/3852) (Figure 4). The three tenements are located over potential iron-oxide copper-gold (IOCG)- and Porphyry-style mineralisation.

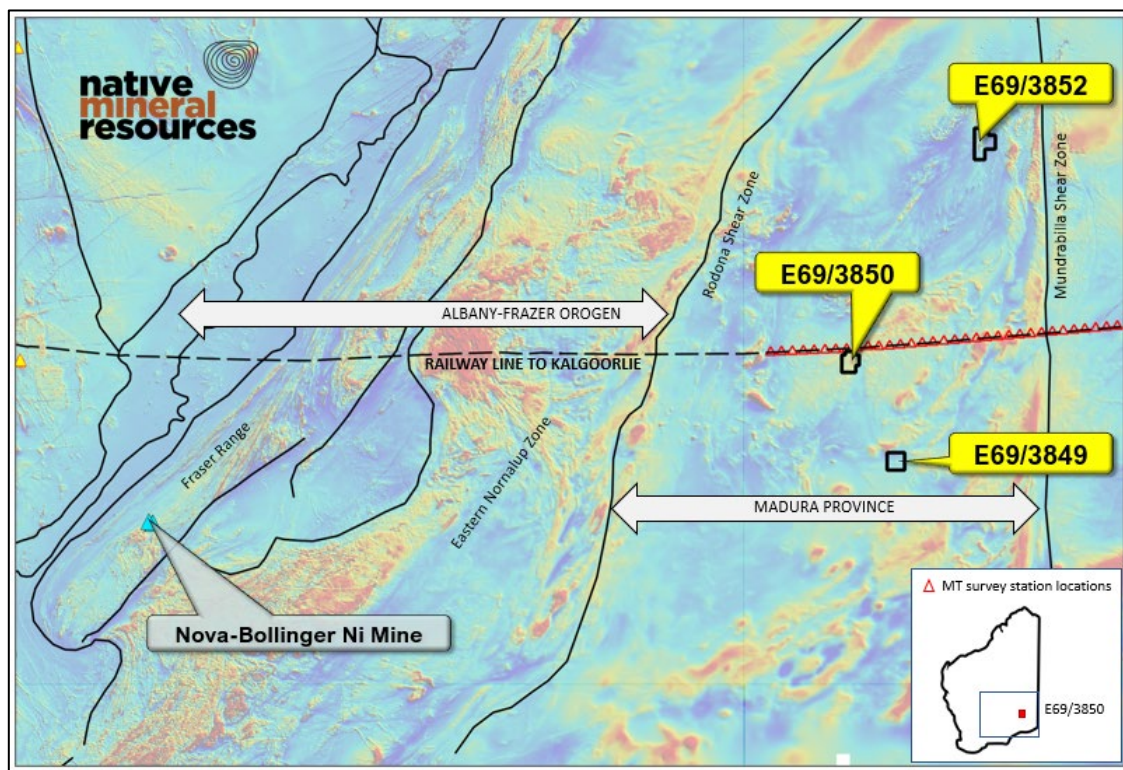


Figure 4. Map of the three IOCG target tenements managed and currently being explored by NMR in the underexplored Madura Province.

As reported on 16th May 2022, NMR completed its maiden diamond drilling program at the Helios Project and intersected what the company considers to be significant IOCG-style alteration including felsic breccias with hematite, magnetite, and pervasive hematite alteration of host granites.

A common signature or “fingerprint” of IOCG systems is the close association between magnetic highs and gravity highs. Deposits such as Ernest Henry, Prominent Hill, and Brumby are examples where this correlation is observed. As described above, NMR is targeting the central gravity high derived from inversion of a ground-based gravity survey over the Helios project area.

NMR are currently drilling the gravity anomaly and will release the results from the drilling once completed near the end of August or early September. Presented here are just a few of the first photos of the drill core being recovered from HELIOS\_DD002.



*Figure 5. Intrusive breccia with hematite stained porphyritic potassic intrusive.*

**-Ends-**

The Board of Native Mineral Resources Holdings Ltd authorised this announcement to be lodged with the ASX.

This announcement refers to information contained within previous ASX announcements

2<sup>nd</sup> May, 2022 - **NMR awarded a \$220,000 EIS grant to drill a follow-up hole at its Helios project.**

16<sup>th</sup> May, 2022 **Iron-Oxide Copper Gold (IOCG) style alteration intercepted in frontier drilling at Helios**

23<sup>rd</sup> May, 2022 – **Gravity survey to begin at Helios following the identification of Iron Oxide Copper-Gold (IOCG)-style alteration**



For more information, please visit [www.nmresources.com.au](http://www.nmresources.com.au) or contact:

**Blake Cannavo**  
**Managing Director and Chief Executive Officer**  
**Native Mineral Resources Holdings Limited**  
T: +61 2 6583 7833  
E: [blake@nmresources.com.au](mailto:blake@nmresources.com.au)

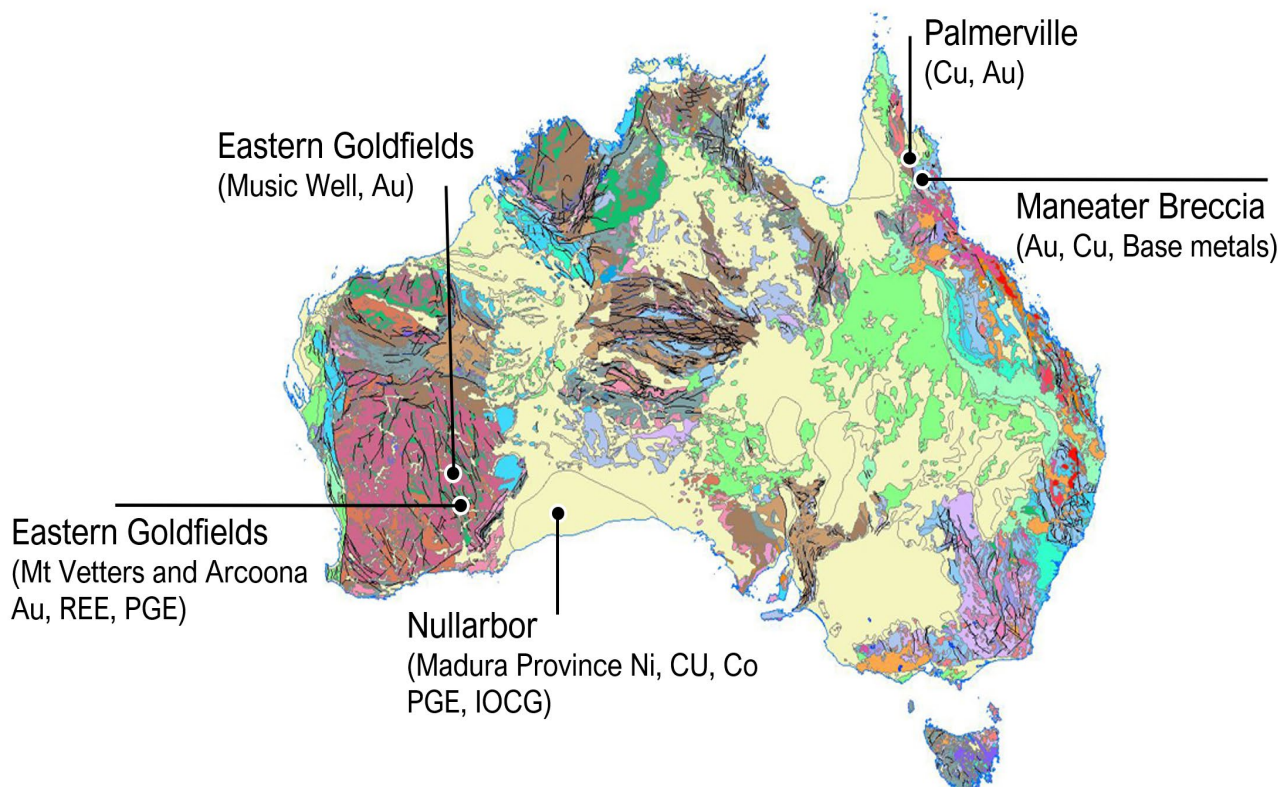
**Sam Burns**  
**Media & Investor Relations**  
**Six Degrees**  
T: +61 400 164 067  
E: [sam.burns@mdir.com.au](mailto:sam.burns@mdir.com.au)

### Competent Person Statement:

The information in this report relating to Exploration Results is based on information provided to Dr Simon Richards, a Competent Person who is a Member of the Australian Institute of Geoscientists and the Australasian Institute of Mining and Metallurgy. Dr Simon Richards is a full-time employee of Native Mineral Resources. Dr Richards has sufficient experience that is relevant to the styles 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'. Dr Richards has no potential conflict of interest in accepting Competent Person responsibility for the information presented in this report and consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

### About Native Mineral Resources:

**Native Mineral Resources** (ASX: NMR) is an Australian publicly listed minerals exploration company established to explore for copper and gold deposits in the Palmerville region in North Queensland and for gold, Ni and IOCG deposits in the Eastern Goldfields and Nullarbor region in Western Australia.



*Figure 6. Native Mineral Resources' exploration portfolio focussed on Cu, Au, Ni and PGE in key geological provinces of Australia*

**Native Mineral Resources Holdings Limited** | ABN 93 643 293 716

ASX: NMR

Suite 10, 6-14 Clarence Street, Port Macquarie NSW 2444

T: +61 2 6583 7833 | [info@nmresources.com.au](mailto:info@nmresources.com.au) | [www.nmresources.com.au](http://www.nmresources.com.au)

### **Palmerville Project**

The Palmerville Project is the Company's principal exploration asset and covers a near continuous strike length of 130km over an area of ~1,820km<sup>2</sup> centred 200km west-northwest of Cairns in North Queensland. The Project is considered prospective for the following deposit styles:

- Copper-zinc-gold volcanic massive Sulfide or vein-style mineralisation.
- Porphyry- and skarn-associated copper-zinc-gold mineralisation in Chillagoe Formation limestone-dominant strata.
- Porphyry-related copper-gold mineralisation in non-carbonate lithologies.
- Orogenic-style gold-antimony mineralisation.
- Epithermal gold mineralisation distal to porphyry intrusions
- Alluvial gold akin to the historic Palmerville Goldfield.

Exploration results released in May 2021 (see ASX release "High-grade Copper confirmed within NMR's Palmerville project" 04 May 2021)

### **Eastern Goldfield Project**

The Yilgarn Craton is one of Australia's premier mineral provinces and host to major deposits of gold, nickel, zinc, silver, tantalum and iron ore and other commodities. Recent exploration success has discovered new gold deposits that are intrusion-related gold systems (IRGS), which has led to a greater exploration focus in areas that have received little exploration focus.

NMR has a landholding of 540km<sup>2</sup> in the Eastern Goldfields between Kalgoorlie and Leonora, in areas of prospective intrusive rocks, close to operating gold mines. The tenements are underexplored and offer opportunities to discover relatively new concepts of gold mineralisation.

### **Nullarbor Greenfields Ni and IOCG exploration**

NMR have completed its first diamond drill hole on tenement E69/3852 announced the discovery of significant IOCG-style hematite, magnetite, sericite alteration. NMR was awarded an EIS government co-funded grant of up to \$220,000 to complete a second hole at the Helios target which will begin Q3-Q4 CY 2022.

The Central Target has been derived using the geophysical criteria that have led to the discovery of other IOCG-style deposits, particularly those in South Australia. NMR's drone-based magnetic survey has confirmed the presence of a significant anomaly – 1,200m long and 400m wide - with a relative peak of over 760nT.