



# Manganese update- Ground Penetrating Radar Trial and OMM Farm-in to 60%

## HIGHLIGHTS

- Ground Penetrating Radar (GPR) used for trial delineation of channel type manganese
- OMM earns into 60% by spending \$1.8 million
- Environmental field surveys commencing soon on Mining Licences

Bryah Resources Limited (ASX: BYH, “Bryah” or “the Company”) in conjunction with OM (Manganese) Ltd (OMM) is pleased to announce that a trial of Ground Penetrating Radar (GPR) has been completed and assessed. The GPR survey targeted areas of manganese at the Bryah Basin manganese project. The GPR was utilised in areas of known mineralisation to assess its suitability in future exploration. The trial was part of the commitment to find ways to delineate the manganese channel deposits.

OMM also has completed a \$1.8M earn-in as part of the JV Farm-in agreement and now owns 60% of the project. OMM is a wholly owned subsidiary of OM Holdings Limited (ASX: OMH), one of the world’s leading suppliers of manganese ores. Bryah confirmed that it would not contribute to the JV and that the earn-in would continue from 60% - 70% as per the JV agreement<sup>1</sup>.

Commenting on the trial, Bryah CEO Ashley Jones said: *“We are still evaluating more efficient ways to locate manganese channel mineralisation at depth. This trial has opened another possible solution to delineating these Mn channel deposits. Environmental studies on the mining licences has been scheduled for 2025 and will include flora and fauna studies.”*

The Bryah Basin project area is located approximately 100km north of the town of Meekatharra in Western Australia. The Company’s tenements and manganese mineral rights cover 1,135km<sup>2</sup> over parts of the western Bryah Basin. Figure 2 shows the Manganese Joint Venture tenement package, with prospects and an existing manganese Mineral Resource of 3.06 MT at 20.1% Mn.<sup>2</sup>

<sup>1</sup> See ASX announcement dated 26<sup>th</sup> August 2019

<sup>2</sup> See ASX announcement dated 24<sup>th</sup> August 2023





*Figure 1: Bryah geologist collecting GPR data*

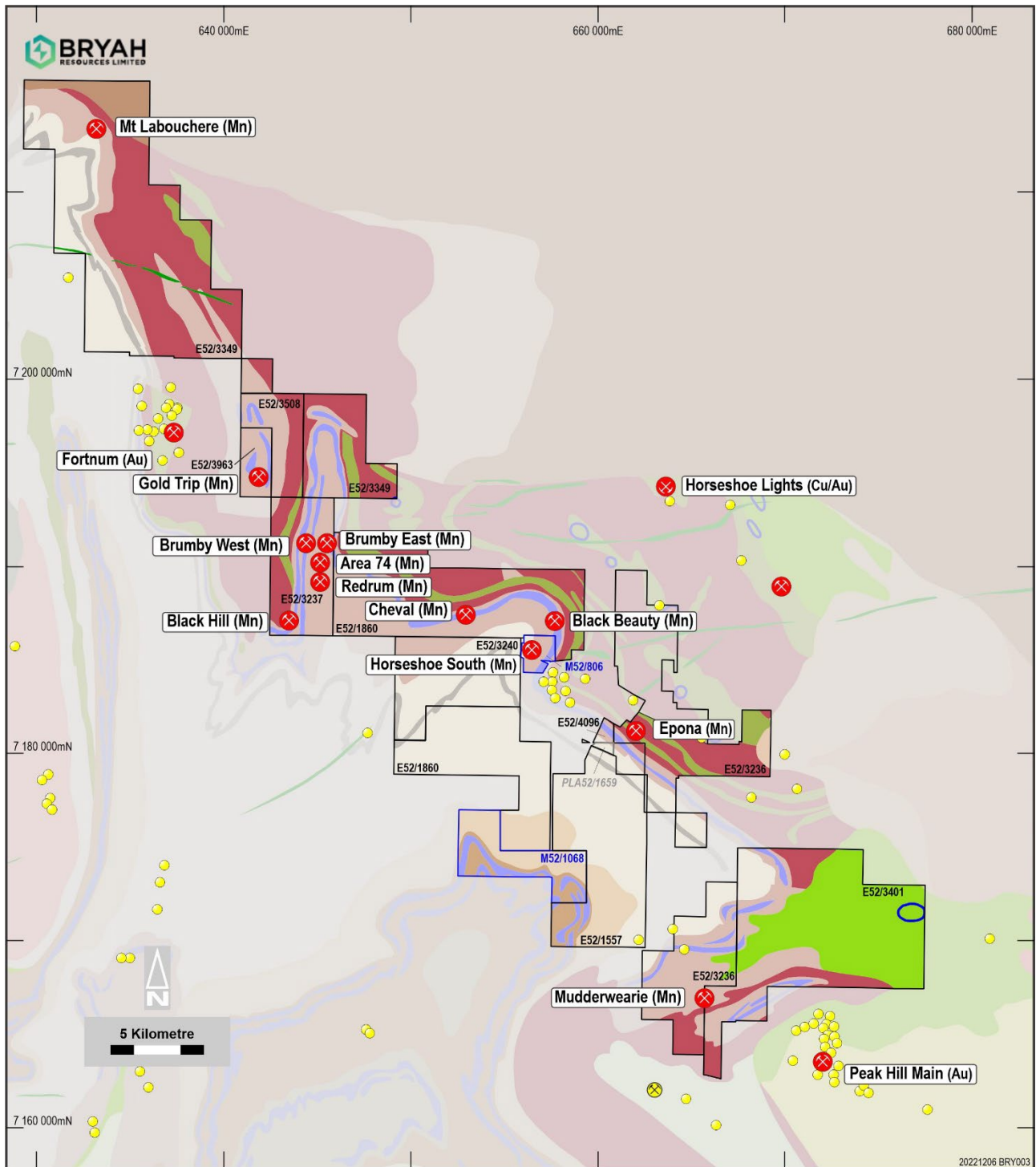


Figure 2: Prospect locations with geology map showing the Horseshoe Formation

The GPR trial was variable finding the top of the known manganese channel deposit in some trial lines but failed to delineate it in other lines. Due to the lithology immediately above the Mn channel changing, it is likely the cause of the differing results as some conductive overlying lithologies dissipates the signal from the GPR.



## **FUTURE WORK**

Environmental studies will progress on the granted Mining Licences during 2025.

*For further information, please contact:*

**Ashley Jones, CEO +61 8 9321 0001**

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*This announcement has been produced in accordance with the Company's published continuous disclosure policy and has been approved by the Board.*



## ABOUT BRYAH RESOURCES

Bryah's assets are all located in Western Australia, a Tier One global mining and exploration jurisdiction. Strategically the Projects are energy metals focused, or able to exploit synergies of geological knowledge, locality and exploration.

The prospective Bryah Basin licences cover 1,048km<sup>2</sup> and have a potential new Volcanogenic Massive Sulphide (VMS) 'Horseshoe Lights type' mine analogue at the Windalah prospect, and multiple other similar untested targets. The area also contains extensive outcroppings of manganese, the subject of a substantial \$7M joint venture with ASX listed OM Holdings Limited (ASX: OMH). OMH is a vertically integrated manganese producer and refiner with a market capitalisation of over \$350m. Bryah and OMH have an excellent working relationship, with OMH having already spent over \$4.5 million to earn-in to the Manganese Rights of the Project.

Gabanintha, near Meekatharra, has a JORC 2012 Mineral Resource for Cu, Ni, Co<sup>3</sup> and additional structural gold potential. The copper nickel resource and recently identified gold mineralisation at Gabanintha will be the subject of further drill definition and a prefeasibility study to integrate the project with the Australian Vanadium Project (ASX: AVL). The resource has been defined by the drilling efforts of AVL in the development of its vanadium project and enabled Bryah to define a base metal resources inventory.

Bryah's base metals inventory at Gabanintha and manganese JV in the Bryah Basin have a clear pathway to production, which will be significantly advanced in 2023 by the commencement and completion of metallurgical feasibility studies at both projects.

The Lake Johnston tenements are prospective for battery metals lithium and nickel. The corridor near Lake Johnston contains significant mines and discoveries of nickel and lithium, the historical Maggie Hays/Emily Ann nickel deposits.

Bryah holds 9.03% of gold focused Star Minerals (ASX:SMS). Star has a Mineral Resource at Tumblegum South and exploration prospects in the West Bryah Basin.

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<sup>3</sup> See ASX announcement dated 25th May 2022 '*36.0 MT Ni-Cu-Co Mineral Resource at Gabanintha*'.



## **Forward Looking Statements**

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This report may contain certain “forward-looking statements” which may not have been based solely on historical facts, but rather may be based on the Company’s current expectations about future events and results. Where the Company expresses or implies an expectation or belief as to future events or results, such expectation or belief is expressed in good faith and believed to have a reasonable basis. However, forward looking statements are subject to risks, uncertainties, assumptions and other factors which could cause actual results to differ materially from future results expressed, projected or implied by such forward-looking statements. Readers should not place undue reliance on forward looking information. The Company does not undertake any obligation to release publicly any revisions to any “forward looking statement” to reflect events or circumstances after the date of this report, or to reflect the occurrence of unanticipated events, except as may be required under applicable securities laws.

### **COMPETENT PERSON STATEMENT – EXPLORATION RESULTS AND EXPLORATION TARGETS**

The information in this report that relates to Exploration Results and Exploration Targets is based on and fairly represents information and supporting documentation prepared by Ashley Jones. Mr Jones is a member of the Australasian Institute of Mining and Metallurgy (AusIMM) and has sufficient experience of relevance to the styles of mineralisation and types of deposits under consideration, and to the activities undertaken to qualify as Competent Persons as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Jones consents to the inclusion in this announcement of the matters based on his information in the form and context in which it appears.

Where the Company refers to Exploration Results in this announcement (referencing previous releases made to the ASX), the Company is not aware of any new information or data that materially affects the information included in the relevant market announcements.

### **COMPETENT PERSON STATEMENT — MINERAL RESOURCE ESTIMATION**

The information in this announcement that relates to Mineral Resources is based on and fairly represents information compiled by Mr Lauritz Barnes, (Consultant with Trepanier Pty Ltd), and Ms Gemma Lee (Principal Geologist with Bryah Resources). Mr Barnes and Ms Lee are members of the Australasian Institute of Mining and Metallurgy (AusIMM) and/or the Australian Institute of Geoscientists (AIG). Both have sufficient experience of relevance to the styles of mineralisation and types of deposits under consideration, and to the activities undertaken to qualify as Competent Persons as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Specifically, Ms Lee is the Competent Person for the geological model and site visits and for the geological database. Mr Barnes is the Competent Person for the estimation. Mr Barnes, and Ms Lee consent to the inclusion in this announcement of the matters based on their information in the form and context in which they appear.

The Company confirms that it is not aware of any new information or data that materially affects the information included in announcements referred to and all material assumptions and technical parameters underpinning the Mineral Resource estimates within those announcements continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Persons findings are presented have not materially changed from the original announcement.



## Appendix 2

Table 1 August 2023 Manganese Mineral Resource at 15% Mn Cut-off<sup>1</sup>

Prospect	Category	2023 Estimate		
		kt	Mn %	Fe %
Area 74	Indicated	286	24.1	21.1
Brumby Creek		1,038	20.6	20.5
Horseshoe		295	20.5	23.6
Redrum		429	19.2	22.7
Black Hill		24	29.7	20.2
<b>Total Indicated</b>		<b>2,072</b>	<b>20.9</b>	<b>21.5</b>
Area 74	Inferred	16	18.0	23.5
Brumby Creek		276	18.5	24.4
Horseshoe		351	19.5	29.9
Redrum		351	18.0	23.8
<b>Total Inferred</b>		<b>994</b>	<b>18.6</b>	<b>26.1</b>
<b>Total Mineral Resource</b>		<b>3,066</b>	<b>20.2</b>	<b>23.0</b>

Note: Appropriate rounding applied. kt = 1,000 tonnes

<sup>1</sup> See ASX announcement dated 24<sup>th</sup> August 2023

