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March 2023

# BRISBANE MINING CONFERENCE

*Exploring Australia for the Energy Metals of the Future*

ASX:BYH



# COMPETENT PERSON’S STATEMENT & DISCLAIMER

## Competent Persons Statement – Exploration Results

The information in this Presentation that relates to Exploration Results is based on information compiled by Mr Ashley Jones, an employee of Bryah Resources Limited (“the Company”). Mr Jones is a member of the Australasian Institute of Mining and Metallurgy (AusIMM). Ashley Jones 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’. Ashley Jones consents to the inclusion in this Presentation of the matters based on his information in the form and context in which it appears.

## Competent Person Statement — Mineral Resource Estimation

The information in this announcement that relates to Manganese Mineral Resources is based on and fairly represents information compiled by Mr Lauritz Barnes, (Consultant with Trepanier Pty Ltd), Dr Joe Drake-Brockman (Consultant with Drake-Brockman Geoinfo Pty Ltd) and Ms Gemma Lee (Principal Geologist with Bryah Resources). Mr Barnes, Dr Drake-Brockman and Ms Lee are members of the Australasian Institute of Mining and Metallurgy (AusIMM) and/or the Australian Institute of Geoscientists (AIG). All 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, Mr Barnes is the Competent Person for the estimation, Dr Drake-Brockman is the Competent Person for the geological model and site visits and Ms Lee is the Competent Person for the geological database. Mr Barnes, Dr Drake-Brockman 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 information in this presentation that relates to Gabanintha Base metals Mineral Resources (see BYH ASX announcement dated 1st June 2021) is based on and fairly represents information compiled by Mr Lauritz Barnes, (Consultant with Trepanier Pty Ltd) and Mr Brian Davis (Consultant with Geologica Pty Ltd). Mr Barnes and Mr Davis are both members of the Australasian Institute of Mining and Metallurgy (AusIMM) and 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, Mr Barnes is the Competent Person for the estimation and Mr Davis is the Competent Person for the database, geological model and site visits.

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The Company confirms that it is not aware of any new information or data that materially affects the information included in this presentation and all material assumptions and technical parameters underpinning the Mineral Resource estimates 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.

## Forward Looking Statements

This presentation is for information purposes only. Neither this document nor the information contained in it constitutes an offer, invitation, solicitation or recommendation in relation to the purchase or sale of shares in any jurisdiction. This Presentation may not be distributed in any jurisdiction except in accordance with the legal requirements applicable in such jurisdiction. Recipients should inform themselves of the restrictions that apply in their own jurisdiction. A failure to do so may result in a violation of securities laws in such jurisdiction. This document does not constitute investment advice and has been prepared without taking into account the recipient’s investment objectives, financial circumstances or particular needs and the opinions and recommendations in this representation are not intended to represent recommendations of particular investments to particular persons. Recipients should seek professional advice when deciding if an investment is appropriate. All securities transactions involve risks, which include (among others) the risk of adverse or unanticipated market, financial or political developments. No responsibility for any errors or omissions from this document arising out of negligence or otherwise is accepted.

The presentation contains “forward-looking information” within the meaning of applicable securities legislation. Forward-looking information may include, but is not limited to, information with respect to the future financial and operating performance of the Company, its affiliates and subsidiaries, potential investments, the estimation of mineral reserves and mineral resources, realization of mineral reserves and resource estimates, costs and timing of development of the Company’s projects, costs and timing of future exploration, timing and receipt of approvals, consents and permits under applicable legislation, results of future exploration and drilling and adequacy of financial resources.

Forward-looking information is based on the reasonable assumptions, estimates, analysis and opinions of management of the Company made in light of their experience and their perception of trends, current conditions and expected developments, as well as other factors that management believes to be relevant and reasonable in the circumstances at the date that such statements are made, but which may prove to be incorrect. The Company believes that the assumptions and expectations reflected in such forward-looking information are reasonable.

Although the Company has attempted to identify important factors that could cause actual results to differ materially from those contained in forward-looking information, there may be other factors that cause results not to be as anticipated, estimated or intended. There can be no assurance that such information will prove to be accurate, as actual results and future events could differ materially from those anticipated in such information. Accordingly, readers should not place undue reliance on forward-looking information. The Company does not undertake to update any forward-looking information, except in accordance with applicable securities laws.

# CORPORATE SNAPSHOT

## Capital Structure

ASX Code **BYH**

Total Shares on Issue 281,253,474

Options on Issue\* 2, 000,000

Market Capitalisation (@ \$0.022) ~\$6.2 million

Cash Balance (as at 31<sup>st</sup> December 22) \$0.8 million

- 2,000,000 Unlisted Options – ex. price \$0.054, expiry 12 Aug 2025.

## Active Shareholders - ~1,150

Top 20 Holders, includes: 50.4%

- Board and Management 3.7%

- Australian Vanadium Ltd (ASX:AVL) 4.9%



# BOARD AND MANAGEMENT



**Ian Stuart**

Non-Executive Chair

Mr Stuart is a geologist by profession with experience in both the finance and mining industries. He holds an Honours degree in Geology, is a Fellow of the Financial Services Institute of Australasia and a member of the Australian Institute of Company Directors. Ian has extensive experience in capital markets and is conversant with public company governance and management across international jurisdictions.

Mr Stuart is a Non-Executive Director of ASX-listed Star Minerals Ltd.



**Leslie Ingraham**

Non-Executive Director

Mr Ingraham has over 30 years of experience in business. He has performed the roles of Executive Director and Non-executive Director for ASX listed companies. He has extensive experience in capital raising and mineral prospecting and exploration. Core competencies are also in corporate advisory, investor relations and building long lasting relationships with high end investors in Australia and overseas.



**Brian Davis**

Non-Executive Director

Mr Davis is a 50-year veteran of the resources industry and has been principal of exploration and resource development consultancy group Geologica Pty Ltd for the past 20 years. During his extensive career he has worked in exploration and mining for small and large resource companies, focused on commodities including gold, base metals, vanadium, uranium, iron ore, coal and rare earths, both in Australia and overseas.



**Ashley Jones**

CEO

Mr Jones has been responsible for the technical direction of Bryah Resources Limited since 2019.

A geologist with over 20 years of experience in exploration, mine geology and management in Australia and Africa, Mr Jones brings significant project development expertise in feasibility level projects with a particular focus on resources and mine development, including manganese, gold and uranium.

Mr Jones is a Non-Executive Director of ASX-listed Star Minerals Ltd.



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# OUR PROJECTS

"OUR PROJECTS ARE QUALITY  
EXPLORATION ASSETS IN  
WESTERN AUSTRALIA, A TIER 1  
EXPLORATION JURISDICTION"





# PROJECTS COPPER FOCUSED

## Copper Projects

- **Bryah Basin**

- ☐ Windalah

- ☐ Olympus

- ☐ Aquarius

- **Gabanintha**

- ☐ Copper Hills South Drill Target

- ☐ Copper, Nickel and Cobalt Resource in tails of the AVL vanadium project.

- **Others**

- ☐ West Bryah Uranium and REEs

Goldman Sachs: The only way we'll meet copper demand by 2030 is if prices top US\$13,000

Mining

September 13, 2022 | Josh Chiat

Stockhead

“The vast majority of net-zero pathways imply a two to three-fold increase in global electricity demand by 2050, and copper is the best material to transport electricity, so net-zero pathways imply a significant structural uplift in world copper demand,” Shaw said. Sydney Morning Herald

Copper is widely used in modern life, from advanced electronics to electricity generation, and will play a critical role in the transition to a zero emissions economy.

Minerals Council Of Australia & Commodity Insights  
Commodity Demand Outlook 2030



# PROJECTS WITH PRODUCTION POTENTIAL



**Manganese** Resource **1.8 Mt @21% Mn** with potential to grow - 49% JV with OMM, subsidiary of manganese producer OM Holdings



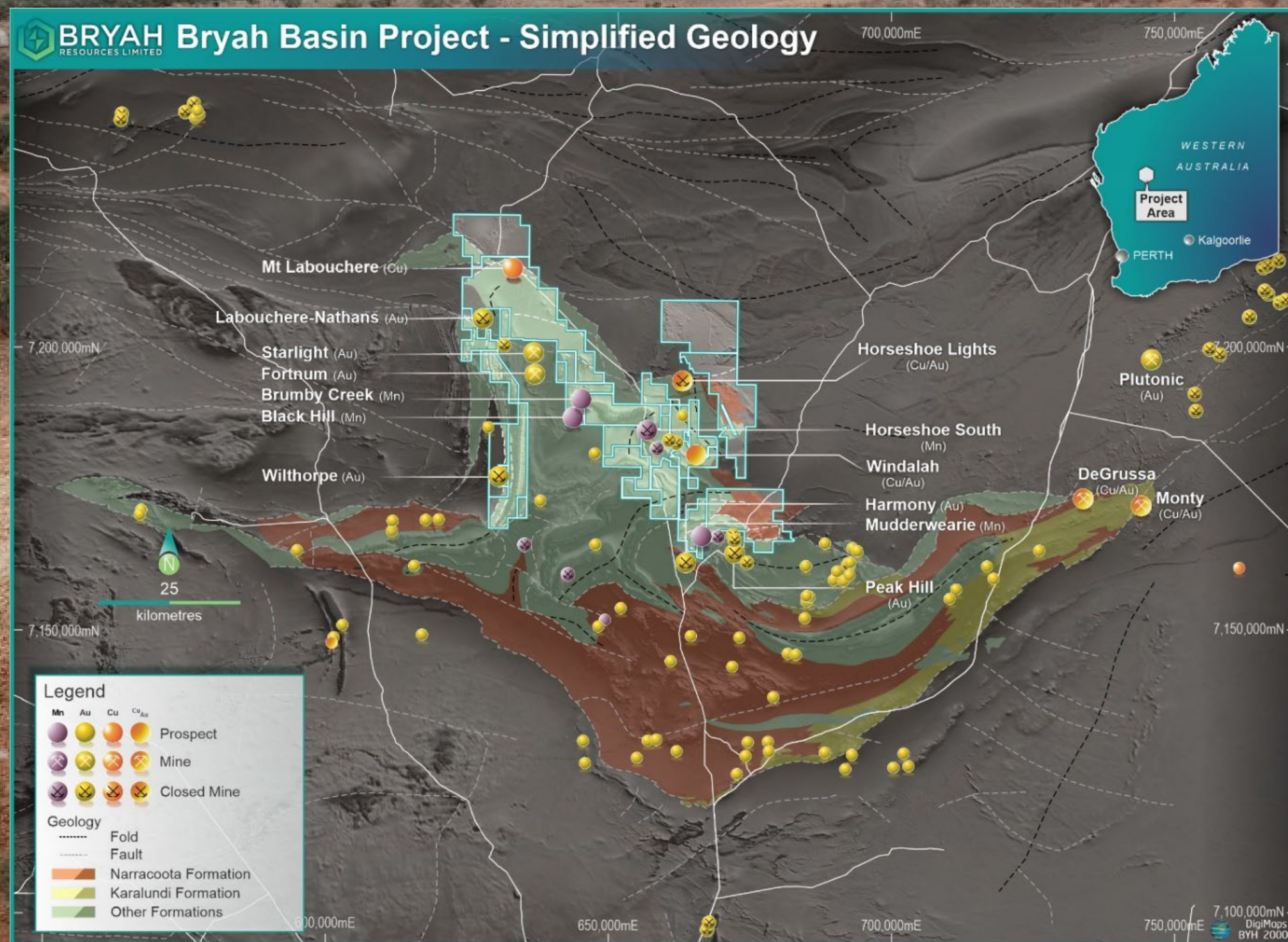
**Copper, Nickel** and **Cobalt** Resource in tails of the AVL vanadium project. 36.0 Million Tonnes at 766 ppm Ni, 212ppm Cu and 231 ppm Co



**20%** holding in Star Minerals - aggressive development of the Tumblegum South **Gold** Resource – performance shares vest on Measured Resource and mining commencement



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# BRYAH BASIN COPPER-GOLD PROSPECT

BRYAH'S DISCOVERY OF A VMS  
COPPER-GOLD TARGET AT  
WINDALAH IN THE BRYAH  
BASIN CONFIRMS POTENTIAL  
FOR A NEW COPPER-GOLD  
DISCOVERY ON THIS HIGHLY  
PROSPECTIVE LAND PACKAGE.



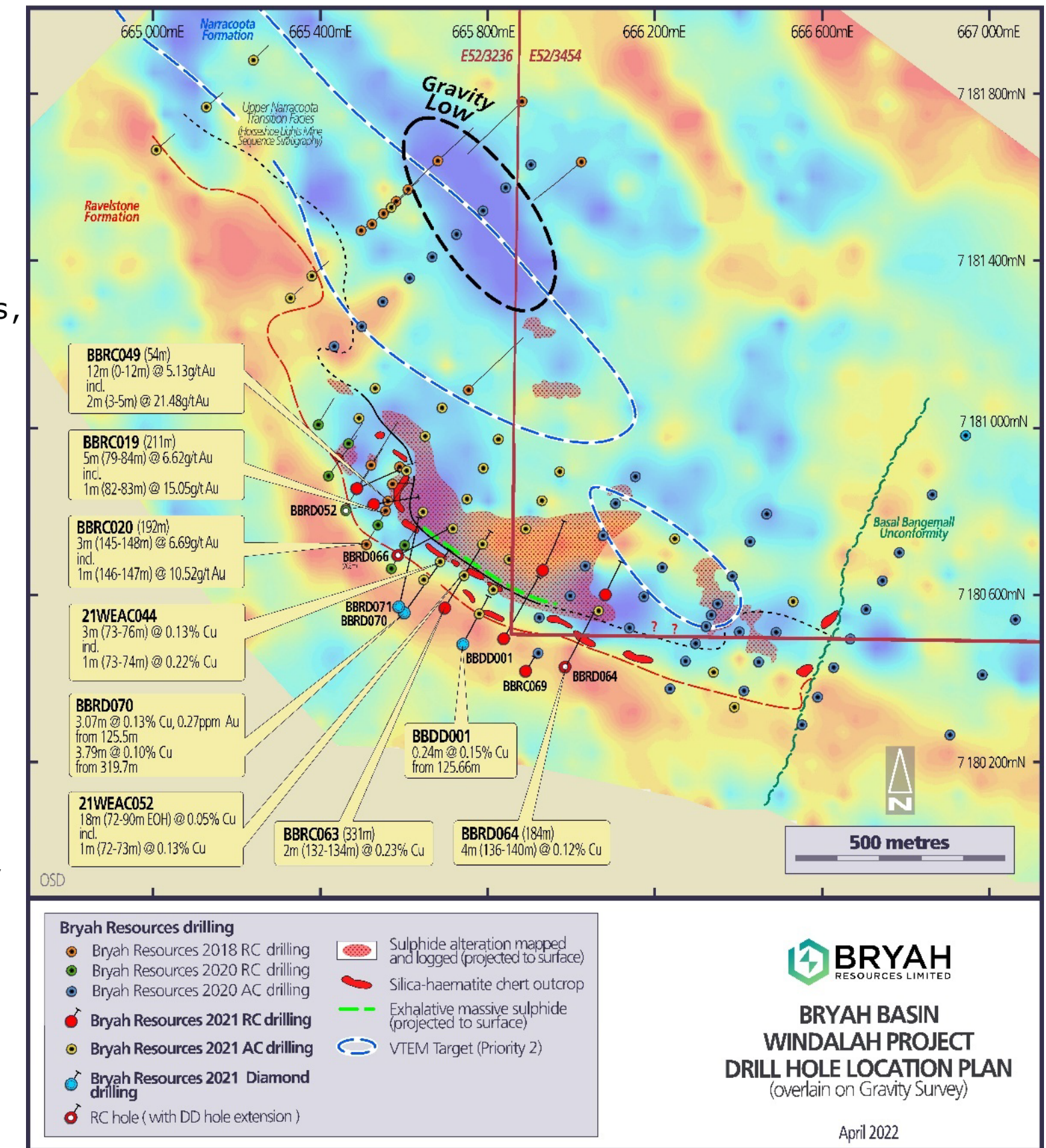
# WINDALAH PROSPECT

## EMERGING VMS COPPER-GOLD TARGET

- Geology displays textbook high sulphidation VMS geological features and textures, confirming a syngenetic hydrothermal volcanogenic massive sulphide (VMS) system.
- Broad sulphide-rich zone with copper mineralisation and VMS pathfinder element enrichment intersected. Large intersections of significantly sulphide enriched rocks include:
  - 146m** @ ~15.7 weight percentages (wt%) sulphide stringer zone from 182m in BBDD0011 (includes 3.12m massive sulphide zone)
  - 89m** @ ~19.4 wt% sulphide stringer zone from 176m in BBRD0701 (includes 5.95m massive sulphide zone)
- Supergene upgrade and visual identification of copper minerals including Bornite, Chalcopyrite and Malachite. Best assays include:
  - 3.07m @ 0.13% Cu and 0.27ppm Au from 125.5m in hole BBRD070**
  - 3.79m @ 0.1% Cu from 319.7m in hole BBRD070**
  - 0.24m @ 0.15% Cu from 125.66m in hole BBDD001**

wt% pyrite estimates are based upon sulphur assays. The accepted estimation is pyrite wt% = S% x 1.87 (assuming all sulphur is in pyrite)

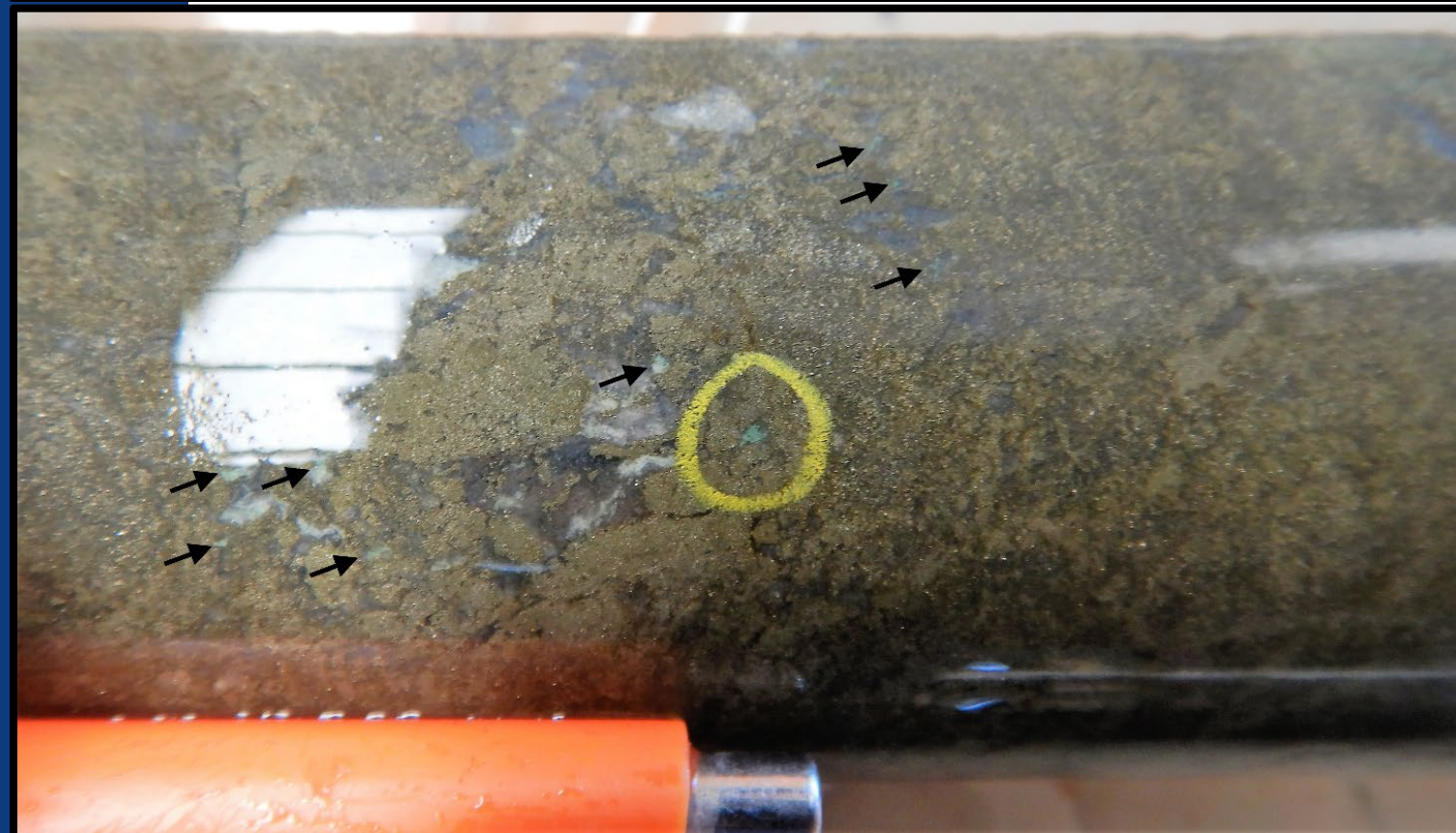
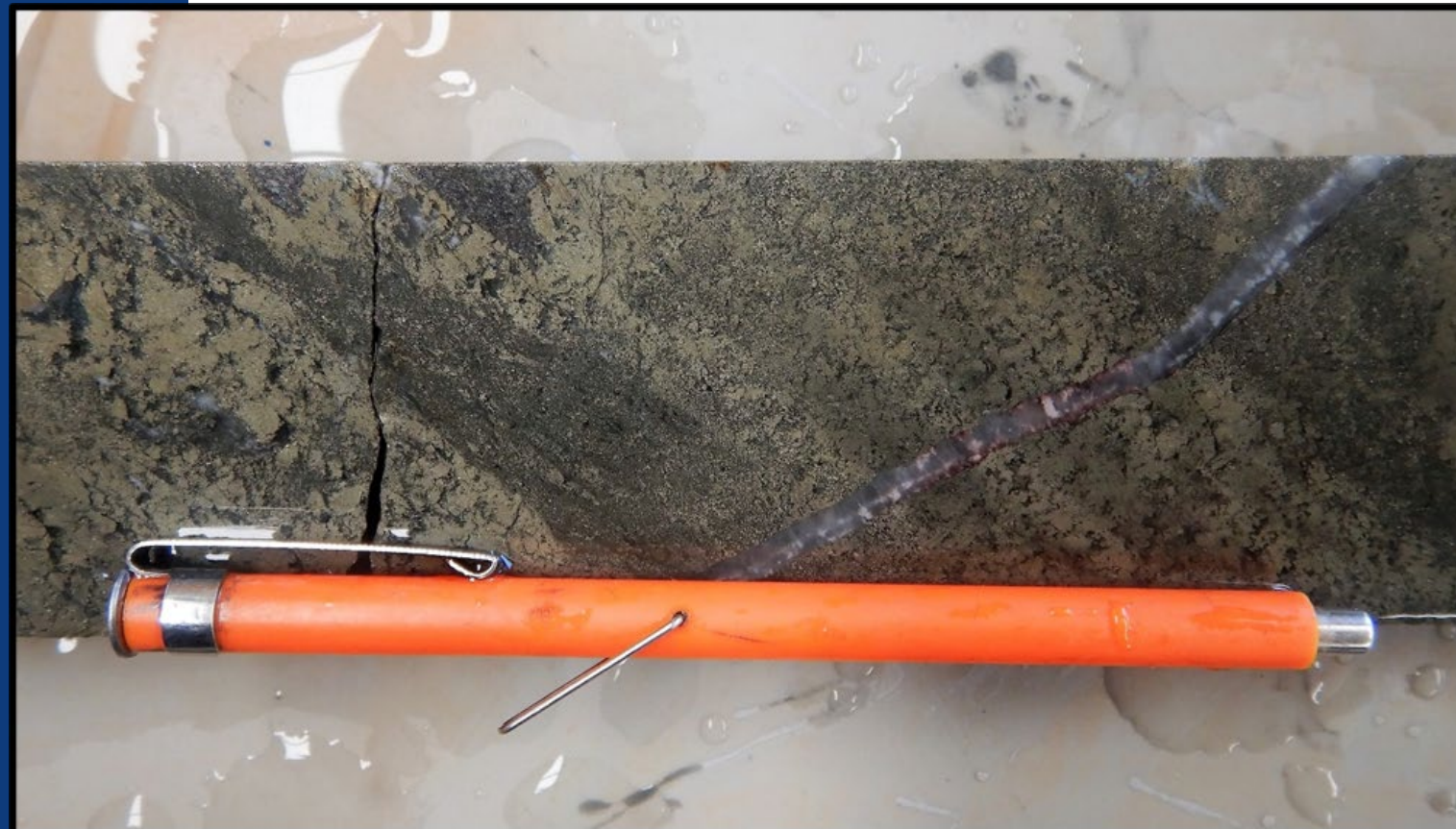
<sup>2</sup>Cautionary Note: In relation to disclosure of visual mineralisation, the Company cautions that visual estimates of mineralisation content/intensity should not be considered a proxy or substitute for laboratory analyses, which are required to determine the widths and grade of the mineralisation.





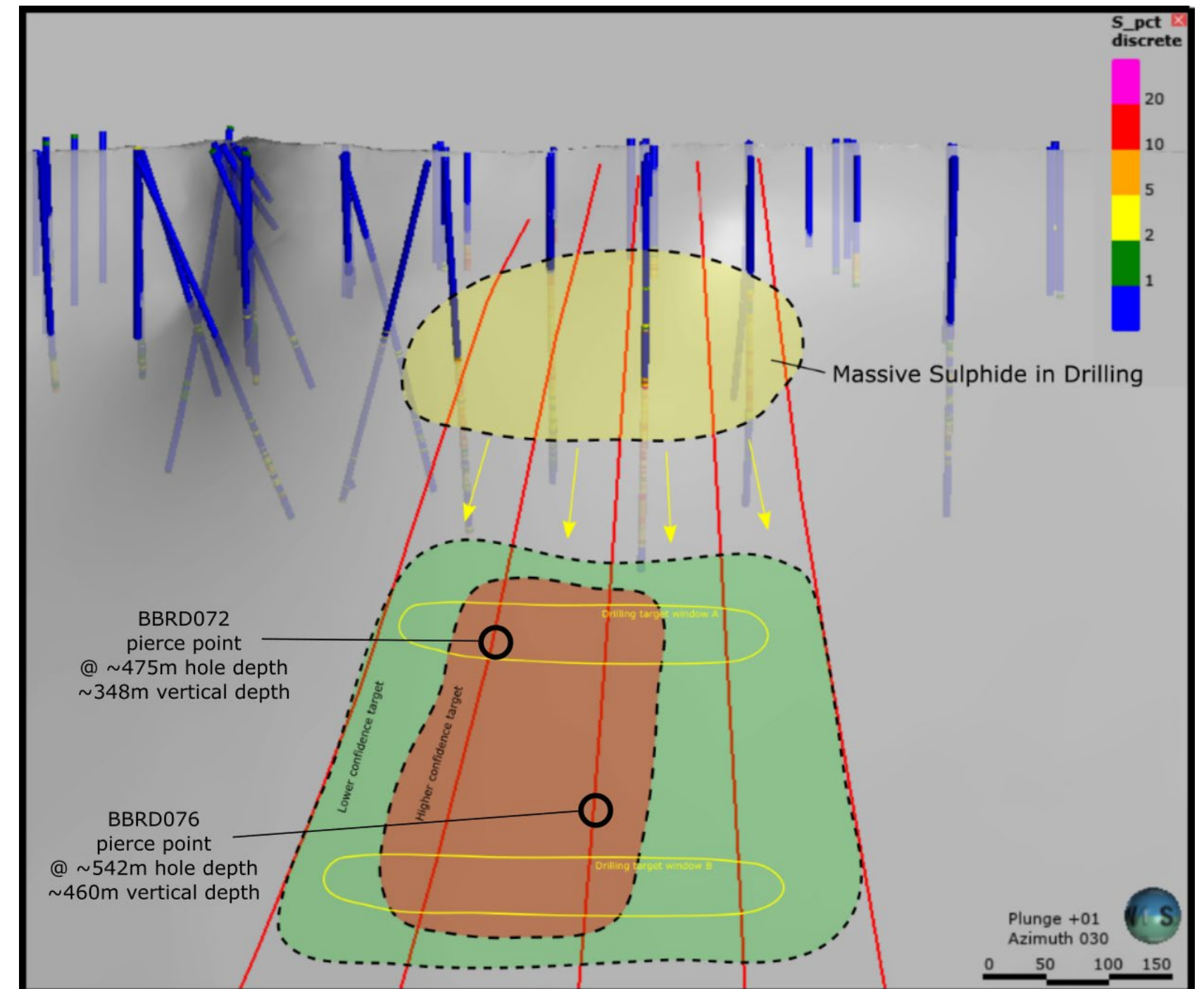
# WINDALAH PROSPECT

## Diamond Drilling to test target at depth



The next steps for the Windalah copper-gold project are:

- Geological interpretation
- Geochemical assays
- Downhole Electromagnetic Surveys (DHEM)

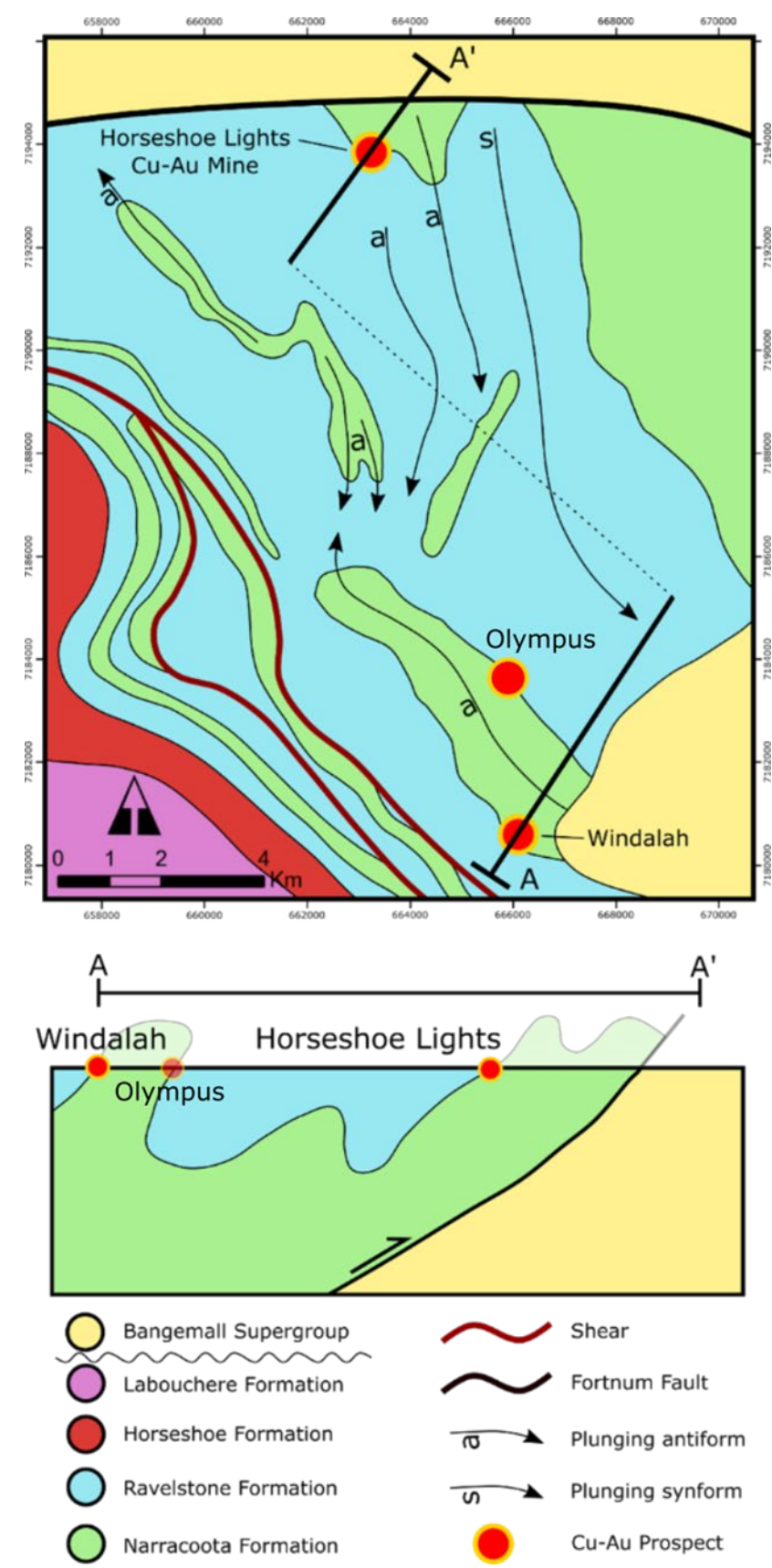
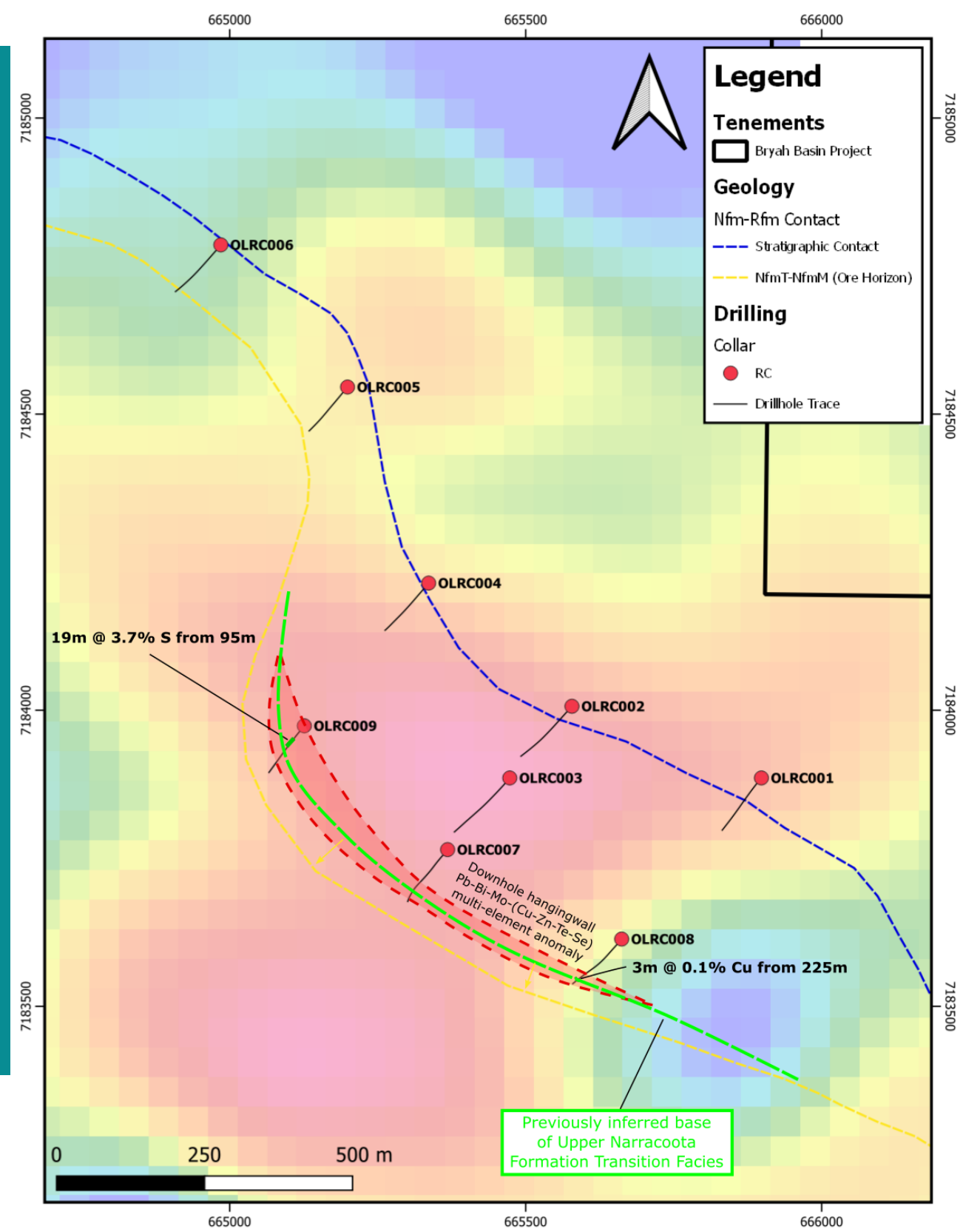




# OLYMPUS PROSPECT

## Cu targets

- 4km north of Windalah
- EIS funded to \$130K
- Completed 9 holes for 2148m
- Similar anomalous elements
- Higher Bi, Te and Se may indicate it's closer to hotter fluids
- Identification of a spatially coherent Pb-Bi-Mo-(Cu-Zn-Te-Se) anomaly approaching the hanging wall contact to mineralised stratigraphic horizon. RC Chips to Hyperspectral analysis
- Downhole EM Survey



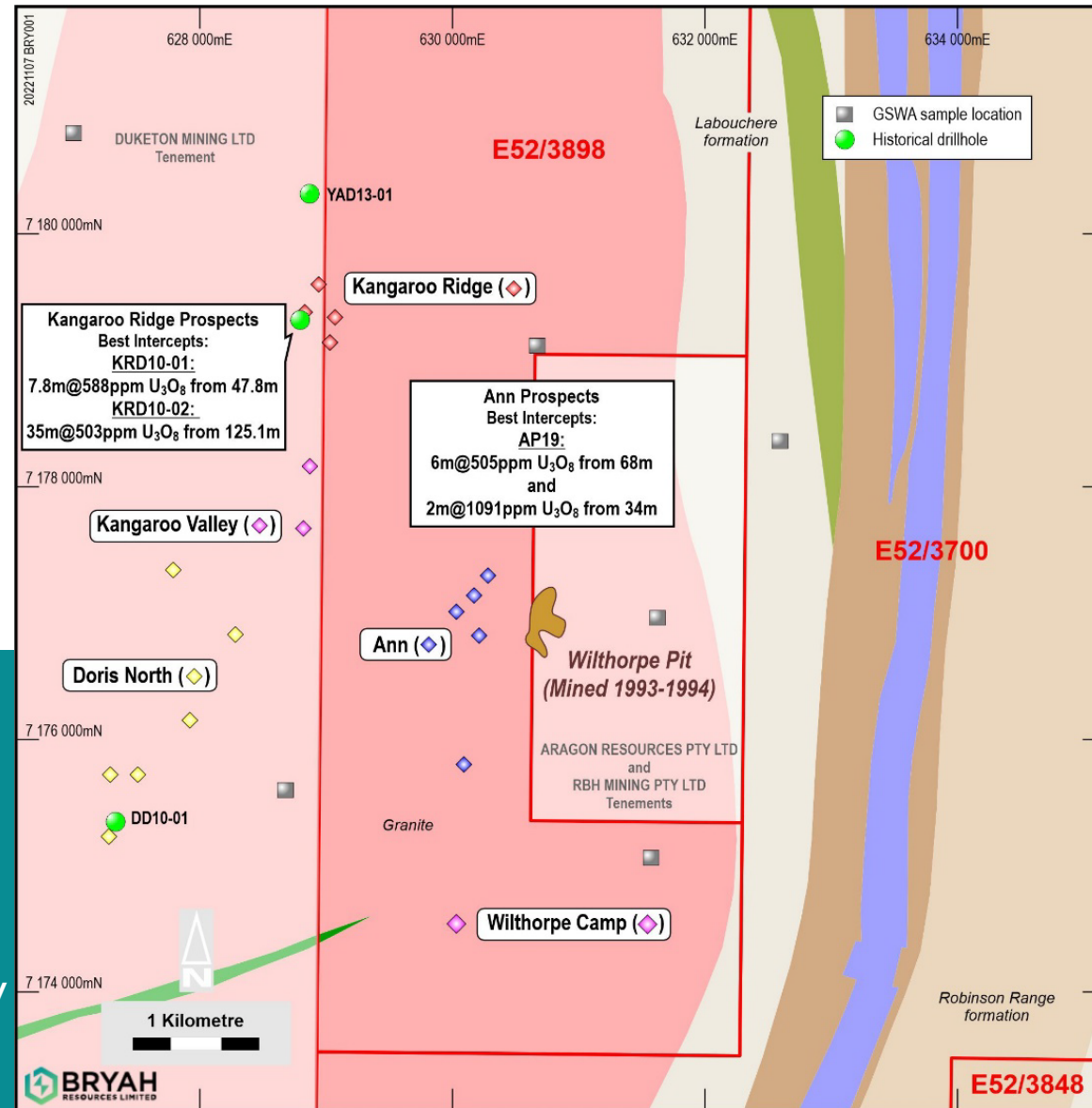


# BRYAH BASIN TENEMENT HOLDING

## ADDITIONAL TARGETS

### Uranium and REE Targets

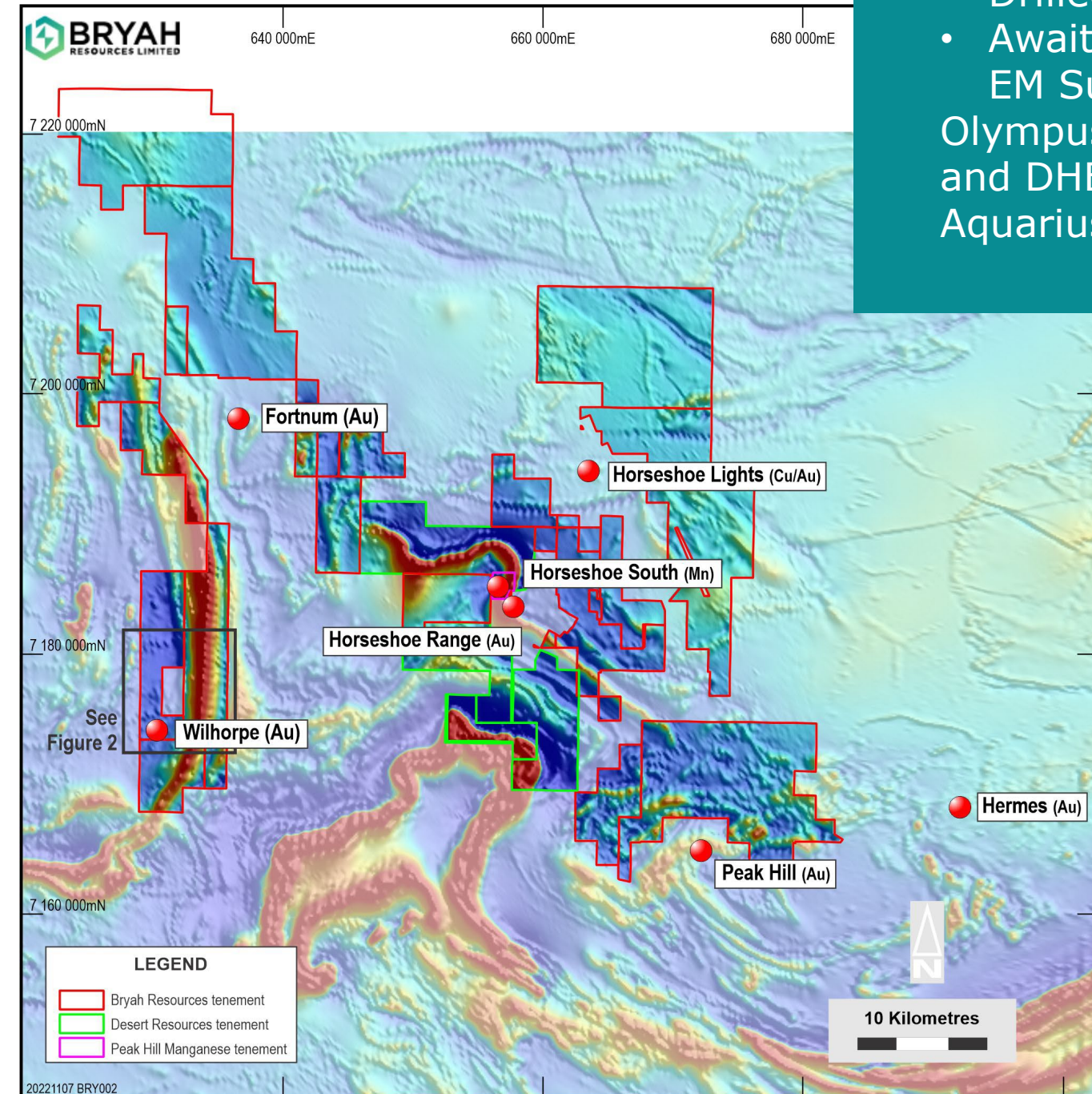
- Kangaroo Ridge
  - 35m at 503ppm  $U_3O_8$
  - Pegmatites historically reported
  - Anomalous Lanthanum values



### Copper - Gold VMS Targets

Windalah

- Drilled 2 deep holes
- Awaiting Downhole EM Survey (DHEM)
- Olympus Hyperspectral and DHEM
- Aquarius 165k EIS Grant





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# **GABANINTHA COPPER NICKEL GOLD PROJECT**

BRYAH HOLDS 100% RIGHTS TO COPPER  
NICKEL AND GOLD

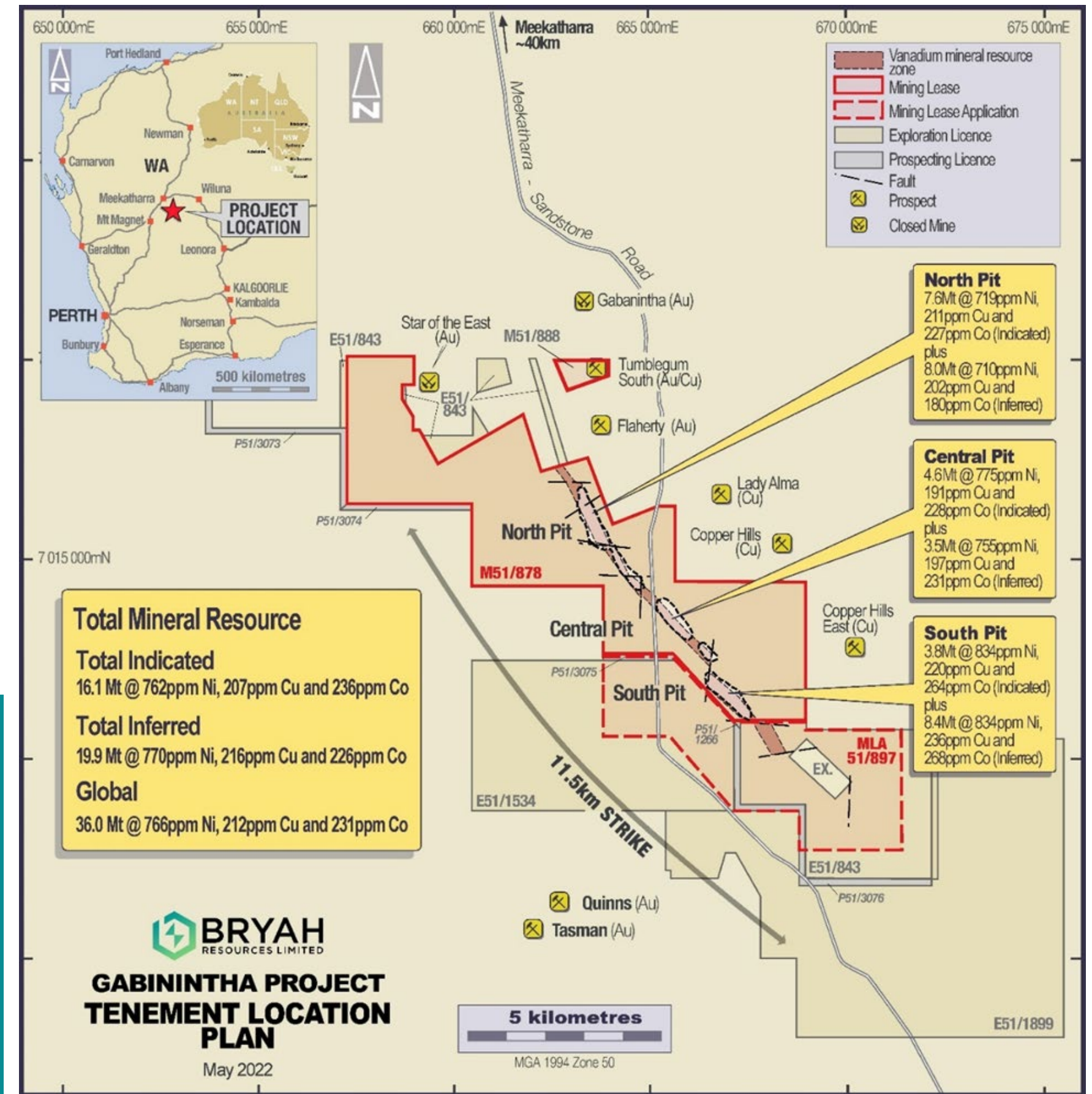
*Australian Vanadium Limited retains 100% rights to  
Vanadium, Uranium, Cobalt, Chromium, Titanium,  
Manganese and Iron Ore*



# VANADIUM DEPOSIT - INCLUDES NICKEL, COPPER AND GOLD POTENTIAL

- AVL completed BFS
- Tailing (waste) of the vanadium process contains Cu, Ni and Co
- Sulphide concentrates from flotation contained up to 6.3% base metals including up to, 2.58% Nickel, 1.70% Copper and 2.02% cobalt plus gold

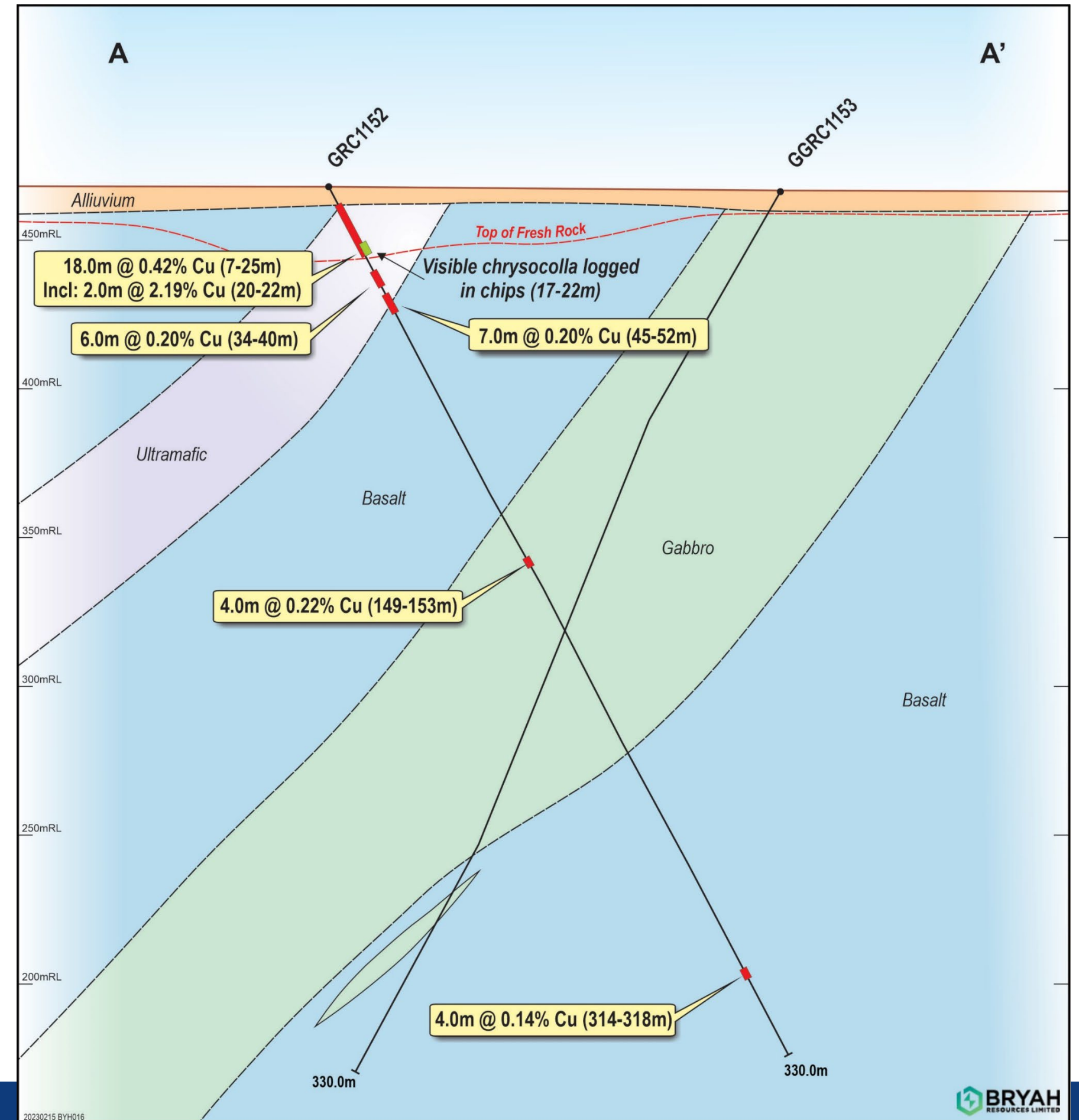
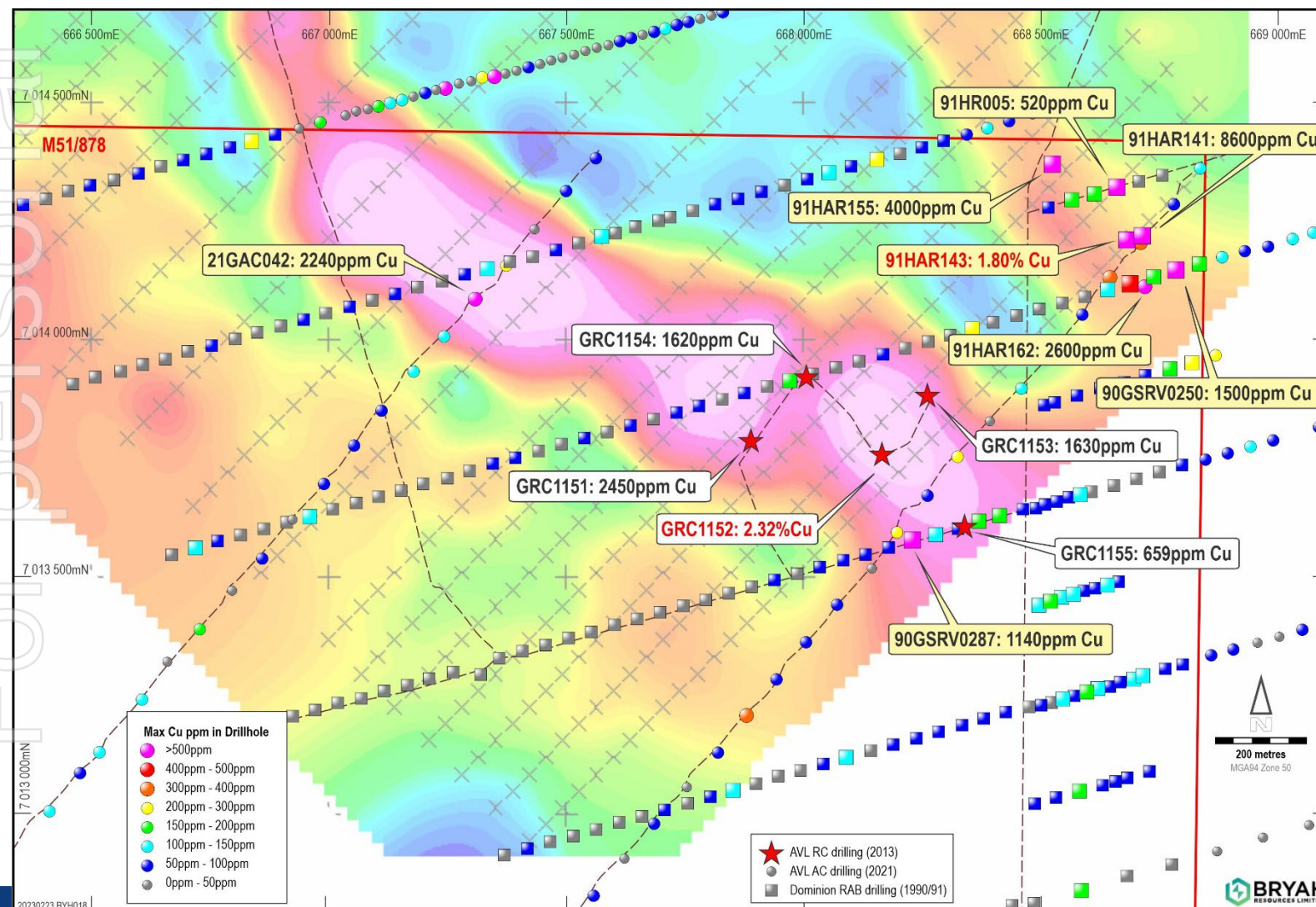
- Updated Base Metals Indicated and Inferred Mineral Resource, increased to 36.0 Mt @ 762 ppm (27,527 t) Nickel, 212 ppm (7,606t) Copper and 231 ppm (8,276 t) Cobalt





# Copper Hills South

- New ground magnetics acquired over target area
- Best intersection reported in 2013 was:
  - GRC1152 - 18 metres (7-25m) @ 0.42% Cu, including **2m @ 2.19% Cu** (20-22m)
  - Untested down dip
  - Historical RAB data Cu highs correspond to IP anomalies.





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# BRYAH BASIN MANGANESE

*THE COMPANY HAS AN OPPORTUNITY TO  
DEVELOP LOW-COST MANGANESE MINING  
OPERATIONS IN THE BRYAH BASIN.  
BRYAH HAS MADE NEW DISCOVERIES AND  
ATTRACTED A QUALITY GLOBAL MANGANESE  
BUSINESS JOINT VENTURE PARTNER.*

***Manganese is considered a critical mineral  
for its use in steel and batteries***



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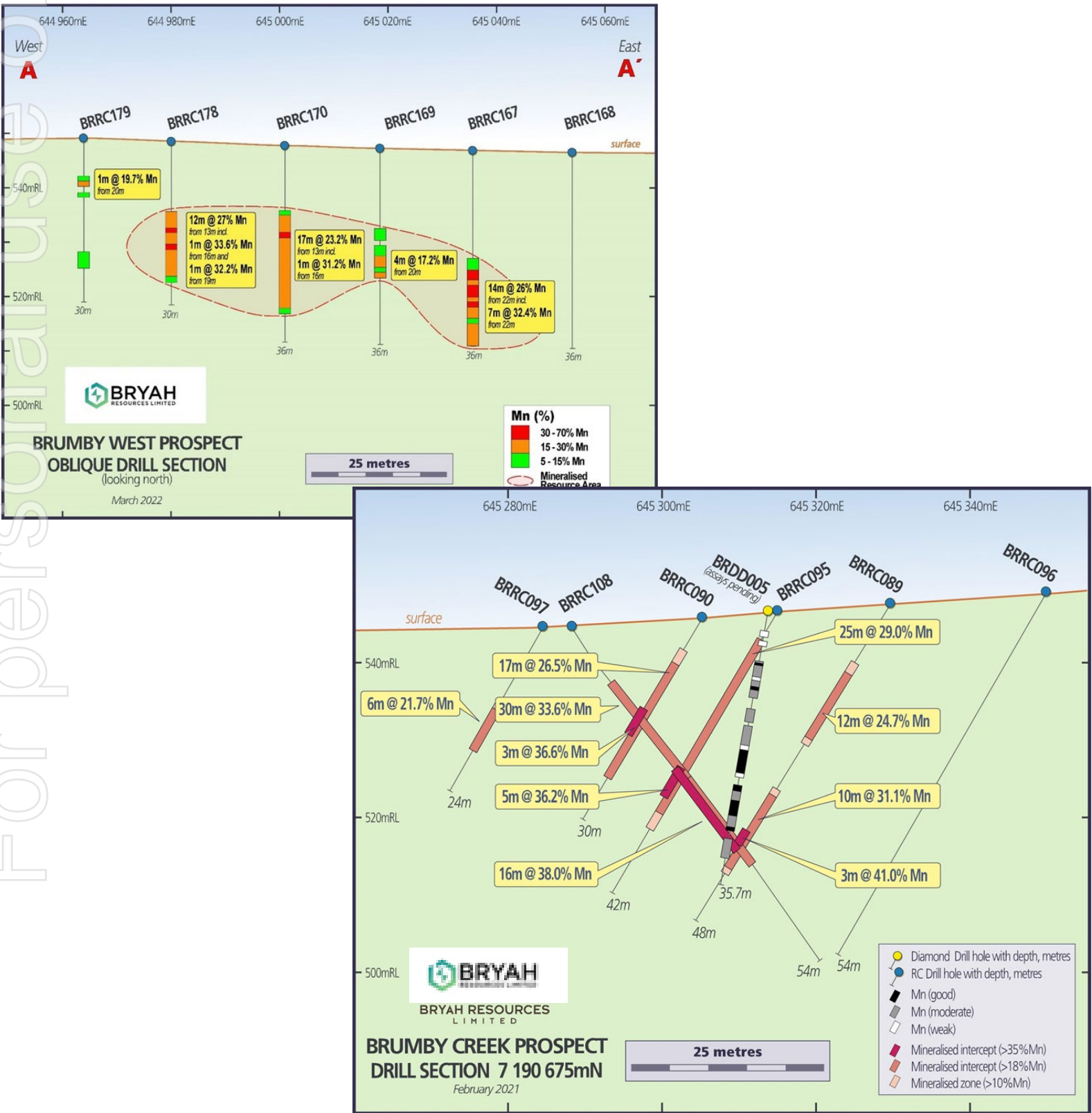
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# MANGANESE MINERAL RESOURCE

TOTAL MINERAL RESOURCE 1.836  
MILLION TONNES (MT) AT 21.0% MN



TOTAL MINERAL  
RESOURCE 1.836 MILLION  
TONNES (MT) AT 21.0%  
MN

Over 6 prospects  
0.65 MT on granted ML

JV partner Funding  
Exploration – Currently  
49% BYH

GAIP ground Geophysics  
identifying new prospect  
areas  
Drilling in November  
6000m for the year

Targeting 3-5 million  
Tonnes in resource to get  
the scale to recommence  
production



# VALUE

## LOCATION

- Tenements have prospective geology
- Bryah Basin well endowed with minerals; Cu, Au, U, REE's Mn, Fe
- JORC Resource – Ni, Cu with AVL
- JORC Resource – Mn with OMH

## TENEMENT LOCATIONS AND PROSPECTIVITY

## GEOLOGICAL TEAM

## TEAM

- Advanced targeting techniques
- Successful EIS grants
- Implementation – bigger group
- Leverage through AVL and SMS associations

## BOARD

- Geologically focused board
- Deals completed to 'Lock in Value'
- Deals maintain upside for shareholders
- Discovery upside risk/reward balance

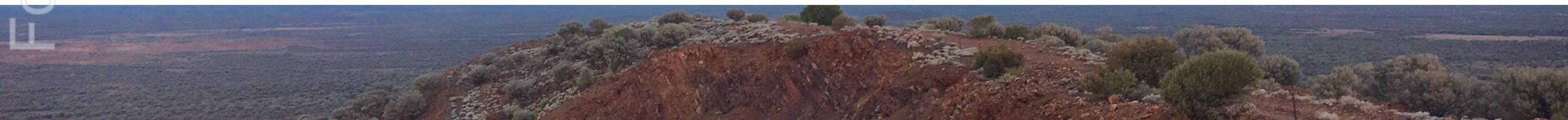
## BOARD AND MANAGEMENT

## COMPANY VALUE ADD

## VALUE

- JV with OM Holdings on Manganese
- Star Minerals 20.75% with Performance rights on resource update and start of mining
- Mining Green Metals Option Agreement– Lake Johnston

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# SUMMARY

**Manganese** JV interest – early  
pathway to significant cashflow with  
guaranteed offtake partner

**Gold** resource at Tumblegum South  
– exposure through 20% equity in  
Star Minerals

Quality exploration targets –  
potential for the next high-  
grade VMS **copper-gold**  
discovery in the Bryah Basin

Gabanintha Project –  
evolving **Nickel, Copper**  
JORC Resource with AVL  
and Copper Hills South  
targets

Lake Johnston **Lithium** and  
**Nickel** potential **Option**  
**Agreement** signed  
\$2 million transaction value  
at IPO of MG1





## Contact Us

+61 (08) 9321 0001 [info@bryah.com.au](mailto:info@bryah.com.au)

Level 2, 50 Kings Park Road, West Perth, Western Australia 6005

[bryah.com.au](http://bryah.com.au)

