

30 April 2024

# ANT GEOPHYSICAL SURVEY COMMENCES AT SPUR PROJECT

## HIGHLIGHTS

- Ambient Noise Tomography (ANT) geophysical survey with Fleet Space Technologies commences at Spur
- Survey being conducted under a Research and Development arrangement at no cost to Waratah and greatly compliments our targeting and exploration strategy
- Survey designed to provide target definition of priority epithermal-porphyry targets, porphyry intrusions and alteration zones at Spur and Spur South Prospects
- RC Drilling beneath and adjacent shallow gold mineralisation, including 8m @ 6.9g/t Au (JG91) and 22m @ 1.92g/t Au (SPD001) will commence in early May 2024

Waratah Minerals Limited (**ASX: WTM**) ('Company' or 'Waratah') is pleased to announce the commencement of an Ambient Noise Tomography (ANT) geophysical survey at the Spur Project, located in the Lachlan Fold Belt, New South Wales. The Spur Project (**EL5238**) is located 5km west from Newmont Corporation's Cadia Valley Project (>50Moz Au, 9.5Mt Cu<sup>1</sup>), and is hosted in equivalent Late Ordovician aged geology of the Molong Belt within the wider Macquarie Arc.

The surveying activity is being conducted using Exosphere technology by Fleet Space Technologies' (<https://www.fleetspace.com>), under a Research and Development Study at no cost to Waratah. Exosphere ANT technology is a passive seismic exploration technique that utilises seismic noise derived from natural and anthropogenic sources to visualise the three-dimensional subsurface using changes in seismic velocity and integrated by Fleets satellite network.

The survey is designed to map the distribution of subsurface intrusive bodies and alteration zones in 3D and greatly complements Waratah's exploration strategy at Spur.



Figure 1: ANT survey underway at the Spur Prospect

<sup>1</sup> Total metal endowment, Newmont 2023, Harris et al 2020



**Figure 2:** Field activity photos of Exosphere by FLEET ANT Survey (Fleet Space Technologies)

### **SPUR PROJECT TARGETING RATIONALE**

The Spur Project encompasses the wider Cargo gold-copper porphyry field where much of the historical exploration focus has been within the main Cargo Intrusive Complex for 'intrusion-hosted' porphyry-style copper-gold mineralisation.

A subset of East Lachlan porphyry-epithermal deposits are positioned outside and at the margins of the major intrusive complexes. These systems tend to be higher grade and include 1) 'Intrusion-centered' porphyry gold-copper deposits (e.g. Ridgeway, 6Moz Au/1Mt Cu, Cadia East, 38Moz Au/7.5Mt Cu) and 2) Epithermal-porphyry gold-copper deposits (e.g. Cowal, 9.6Moz Au, Evolution 2023, Boda, 6.4Moz Au/1Mt Cu, ASX ALK 15 August 2017).

The equivalent position at the margin of and outside the main Cargo Intrusive Complex is therefore a key exploration criteria for Waratah in the Spur district, and marks a zone characterised by widespread epithermal sulphide stringer/lode mineralisation and alkalic porphyry alteration including 86m @ 1.56g/t Au, 536ppm Cu (SD010, ASX WTM 17 October 2023).

Waratah's exploration model and targeting strategy is also guided by an interpretation that the epithermal sulphide stringers represent the upper levels of a porphyry system as evident at several major East Lachlan deposits e.g. Cowal (9.6Moz Au, Evolution 2023) and Boda (ASX ALK 15 August 2017, 6.4Moz Au/1Mt Cu). There appears to be increasing evidence for this link at the Spur Project, given the recent identification of K-feldspar + albite + tourmaline (alkalic lithocap), pervasive albite-silica-hematite (Inner-propylitic) and skarn porphyry alteration associated with gold-copper mineralisation (Figure 3).

Indeed the epithermal (ISE) sulphide stringer/lode mineralisation can represent a compelling target in its own right, as demonstrated by the resources and mining operations at Brucejack - 22.5Mt @ 10g/t Au, 67.5g/t Ag (7.2Moz Au, 48.8Moz Ag, Newcrest 2021), Fruta del Norte – 18Mt @ 8.68g/t Au, 11.4g/t Ag (5Moz Au, 6.6Moz Ag, Lundin Gold 2022) and Cowal – 305Mt @ 0.98g/t Au (9.6Moz, Evolution 2023).

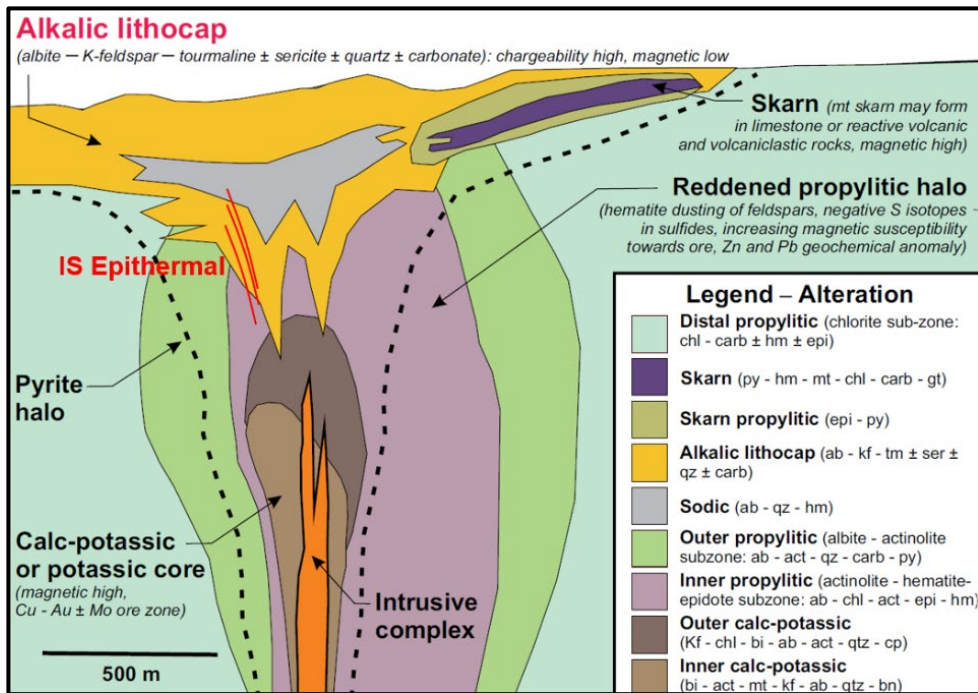


Figure 3: Exploration Model for alkalic porphyry-epithermal mineralisation (Intrusion – centered, Cadia East/Ridgeway-style) modified from Harris et al 2020

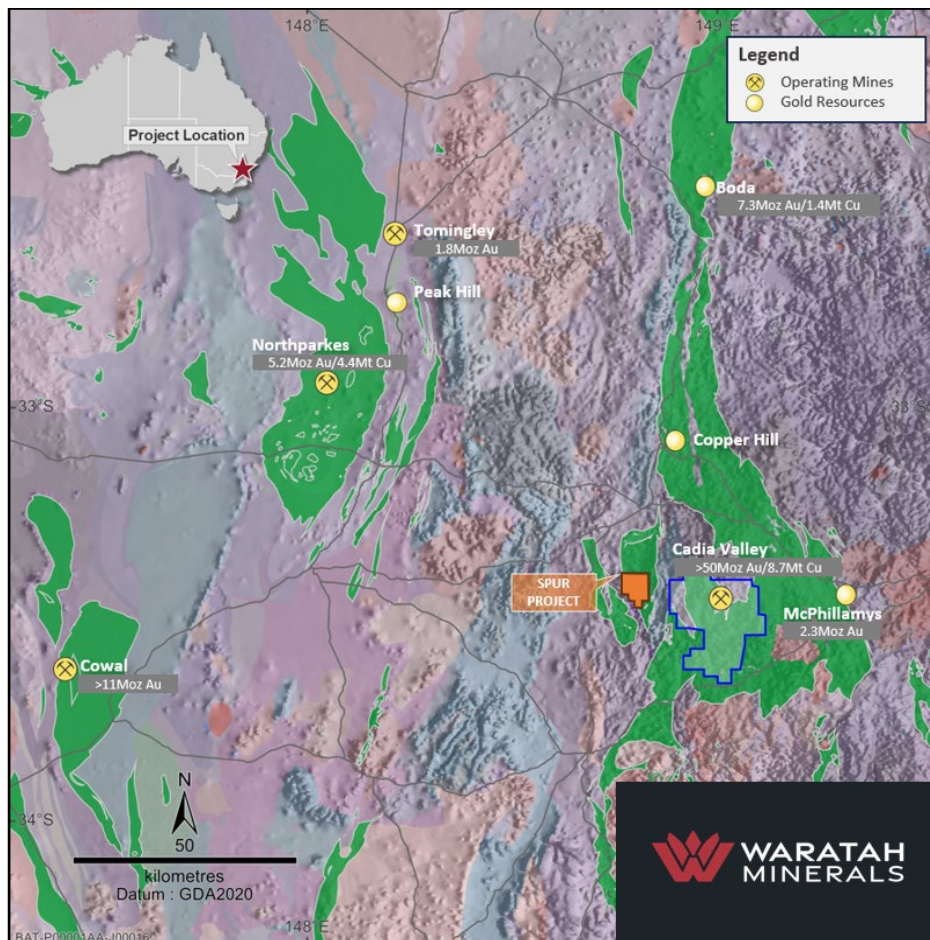


Figure 4: Spur Project, total metal endowment from Phillips 2017, Newmont 2023, CMOG 2023, Evolution 2023, Alkane 2023, Regis 2023

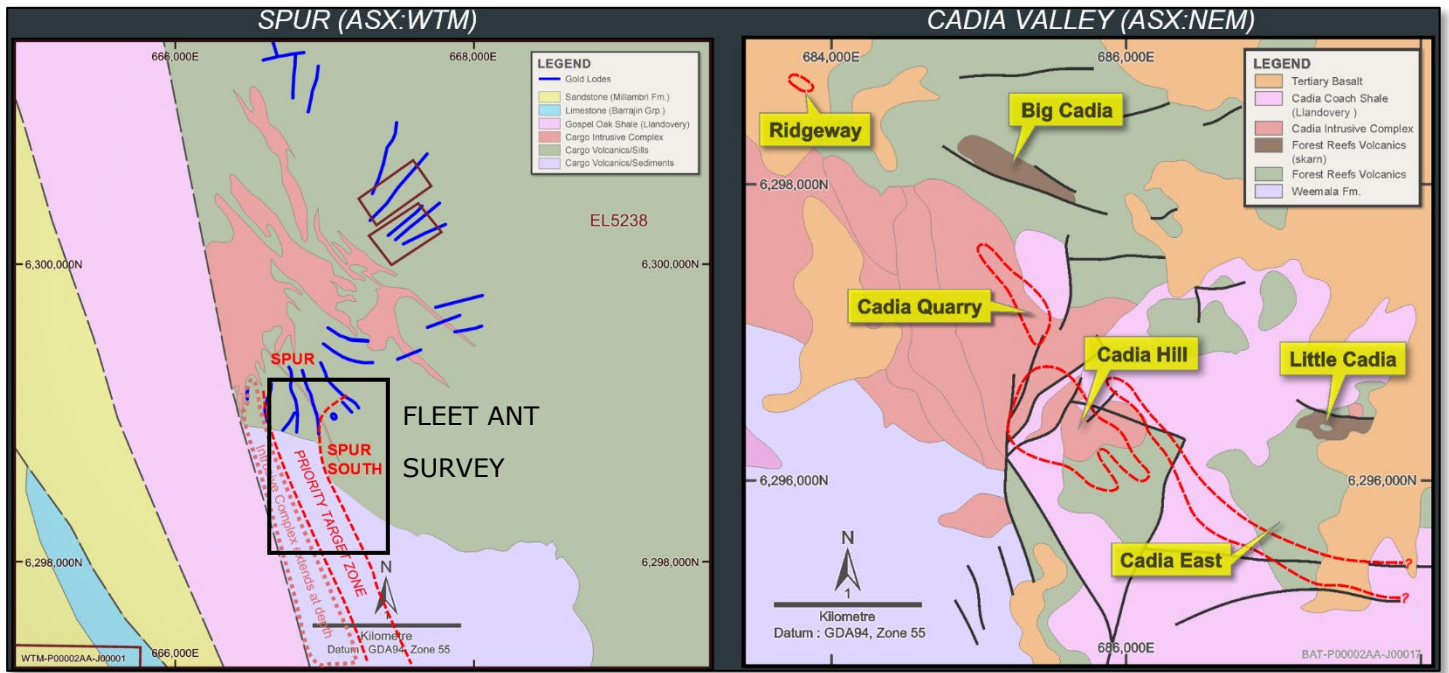


Figure 5: Summary geology comparison between Cadia Valley District, Cadia map modified from Holliday et al 2002

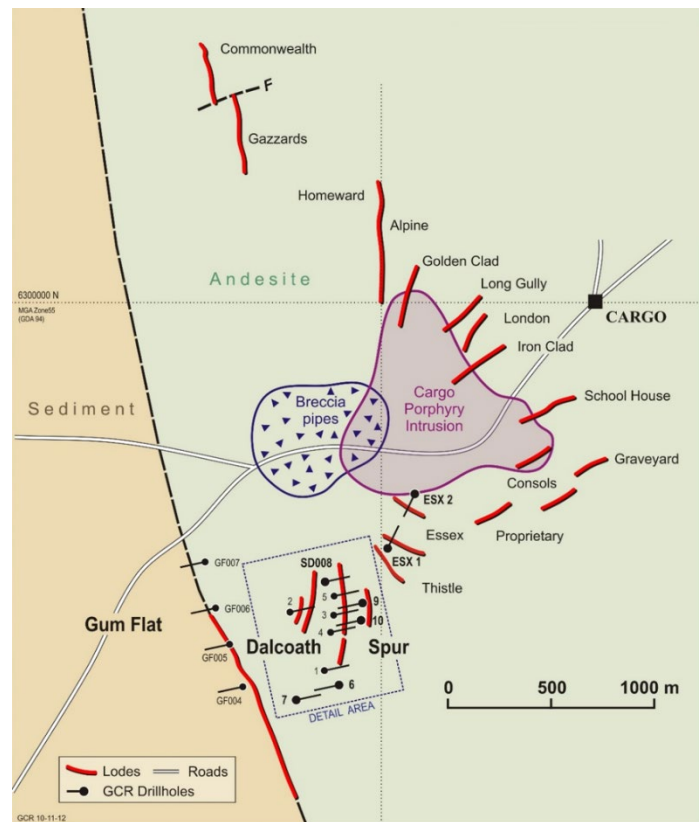
## ABOUT WARATAH MINERALS (ASX:WTM)

Waratah Minerals is an ASX listed public company (**ASX:WTM**) focused on the discovery and development of high-value mineral resources in Australia. In addition, the Company retains exposure to the graphite market via its interest in emerging major producer Tirupati Graphite (TGR: LSE).

### SPUR PROJECT (Au-Cu)

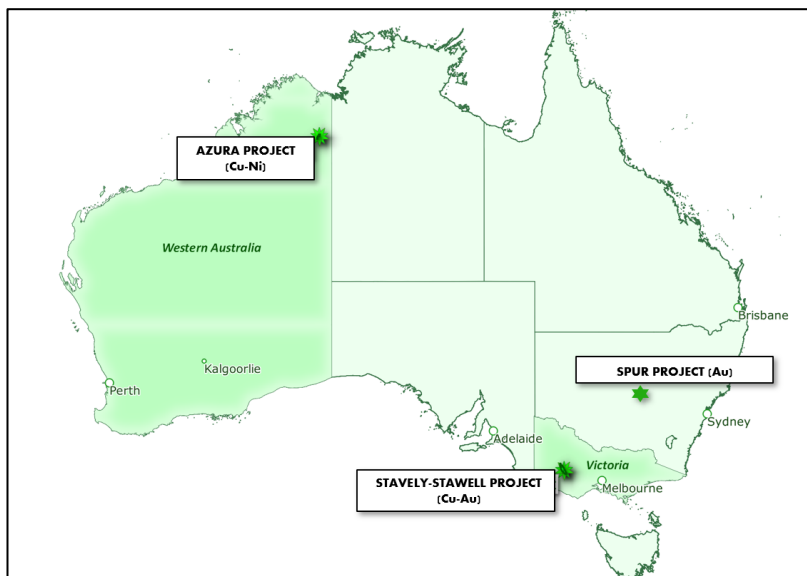
The Spur Project (EL5238) is located 5km west from Newmont Mining's Cadia Valley Project tenure (>50Moz Au, >9.5Mt Cu<sup>1</sup>) in central western New South Wales.

The Project encompasses the wider Cargo Gold-Copper Porphyry Field (covering >20km<sup>2</sup>) where much of the historical exploration focus has been for intrusion-hosted porphyry-style copper mineralisation within the main Cargo Intrusive Complex. Waratah's exploration focus will be outside the main Intrusive Complex, where many important East Lachlan mineral systems are positioned, for 'Intrusion-centred' porphyry /epithermal gold-copper mineralisation and where at the Spur Prospect, historical drilling has intercepted shallow wide zones of gold-copper mineralisation with epithermal-porphyry affinities, including 86m @ 1.56g/t Au, 536ppm Cu (SD010, ASX WTM 17 October 2023).



### STAVELY-STAWELL PROJECT (Cu-Au)

Comprises a single exploration licence (EL6871) covering a 65km strike of the Stawell Gold Corridor and northern extents of the Stavely-Dryden Belt in western Victoria. This large project is considered highly prospective for gold, as evidenced by the nearby multimillion ounce Stawell Gold Mine (Stawell Gold Mines Pty Ltd). Recent drilling has identified wide zones of Intrusion-related gold (IRG) alteration coincident with chargeability anomalism and wide zones of gold anomalism at Coxs Find and Frankfurt (ASX BAT 21 August 2023).



### AZURA PROJECT (Cu-Ni-Co-PGE)

Comprises three exploration licences (E80/4944, E80/5347, E80/5348) covering 258km<sup>2</sup> of the Halls Creek Mobile Zone within the East Kimberley region of WA. The area includes widespread zones of strong surface copper anomalism, up to 29.9% Cu in rock chips, with several VTEM conductors also defining drill targets.

### MOZAMBIQUE (GRAPHITE)

Waratah Minerals holds a company investment and interest in Tirupati

Graphite (TGR:LSE), an emerging producer of flake graphite having recently achieved 30,000tpa production capacity, guidance of 84,000tpa by the end of 2024 and a longer-term goal of producing circa 8% of the global flake graphite market or 400,000tpa by 2030 (LSE TGR 23 September 2022). The company's listed investment in TGR has a current value of approximately \$750k.

## REFERENCES

Alkane 2023., ASX Announcement, Boda Resource Update Increases Gold and Copper Grades, 14 December 2023

Evolution 2023., Mining Annual Mineral Resources and Ore Reserves Statement

Harris, Cooke, Cuisson, Groome, Wilson, Fox, Holliday, Tosdal., 2020. Geologic Evolution of Late Ordovician to Early Silurian Alkalic Porphyry Au-Cu Deposits at Cadia, New South Wales, Australia, SEG Special Publication 23

Holliday and Cooke 2007., Advances in Geological Models and Exploration Methods for Copper + Gold Porphyry Deposits "Proceedings of Exploration 07: Fifth Decennial International Conference on Mineral Exploration"

Holliday, Wilson, Blevin, Tedder, Dunham, Pfitzner, 2002., Porphyry gold-copper mineralisation in the Cadia District, eastern Lachlan Fold belt, New South Wales, and its relationship to shoshonitic magmatism, Mineralium Deposita (2002) 37: 100–116

Newmont 2023, Mining Annual Mineral Resources and Ore Reserves Statement, <https://operations.newmont.com/reserves-and-resources>

Phillips, G N (Ed), 2017. Australian Ore Deposits (The Australasian Institute of Mining and Metallurgy: Melbourne)

Regis Resources 2023., Annual Mineral Resource and Ore Reserve Statement 8 June 2023

This release has been approved by the Board. For further information visit [www.waratahminerals.com](http://www.waratahminerals.com) or contact:

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**Waratah Minerals' Competent Person's Statement**

The information in this announcement that relates to Exploration Targets, Exploration Results or Mineral Resources is based on information compiled by Mr Peter Duerden who is a Registered Professional Geoscientist (RPGeo) and member of the Australian Institute of Geoscientists. Mr Duerden is a full-time employee of Waratah Minerals Limited 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". Mr Duerden consents to the inclusion in this presentation of the matters based on his information in the form and context in which it appears. The information in this report on the Spur Project that relates to Waratah Minerals' prior Exploration Results is a compilation of previously released to ASX by the Company (see ASX announcements dated: 17 October 2023, 5 December 2023, 10 April 2024). Mr Duerden consents to the inclusion of these Results in this report. Mr Duerden has advised that this consent remains in place for subsequent releases by the Company of the same information in the same form and context, until the consent is withdrawn or replaced by a subsequent report and accompanying consent. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and that all material assumptions and technical parameters in the market announcements continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.

**Important Notice**

This ASX Announcement does not constitute an offer to acquire or sell or a solicitation of an offer to sell or purchase any securities in any jurisdiction. In particular, this ASX Announcement does not constitute an offer, solicitation or sale to any U.S. person or in the United States or any state or jurisdiction in which such an offer, tender offer, solicitation or sale would be unlawful. The securities referred to herein have not been and will not be registered under the United States Securities Act of 1933, as amended (the "Securities Act"), and neither such securities nor any interest or participation therein may not be offered, or sold, pledged or otherwise transferred, directly or indirectly, in the United States or to any U.S. person absent registration or an available exemption from, or a transaction not subject to, registration under the United States Securities Act of 1933.

**Forward-Looking Statements**

This announcement contains "forward-looking statements" within the meaning of securities laws of applicable jurisdictions. Forward-looking statements can generally be identified by the use of forward-looking words such as "may", "will", "expect", "intend", "plan", "estimate", "anticipate", "believe", "continue", "objectives", "outlook", "guidance" or other similar words, and include statements regarding certain plans, strategies and objectives of management and expected financial performance. These forward-looking statements involve known and unknown risks, uncertainties and other factors, many of which are outside the control of Waratah Minerals and any of its officers, employees, agents or associates. Actual results, performance or achievements may vary materially from any projections and forward-looking statements and the assumptions on which those statements are based. Exploration potential is conceptual in nature, there has been insufficient exploration to define a Mineral Resource and it is uncertain if further exploration will result in the determination of a Mineral Resource. Readers are cautioned not to place undue reliance on forward-looking statements and Gippsland Prospecting assumes no obligation to update such information.