ASX Announcement
12 August 2025

VTEM Survey Commences Across Entire Oonagalabi Project

Highlights:

- **VTEM™ Max & magnetic survey** underway across the entire Oonagalabi Project (NT).
- Survey designed to detect **conductive massive sulphide mineralisation** at depth.
- Targeting a potential **SEDEX or Skarn-style system** – both typically host massive sulphide zones, classically rich in copper, zinc, and gold.
- **1,015 line km** of coverage including 100m infill lines over high-priority areas.
- **21% of survey complete** – on track for full completion **by end of this week.**
- Results to guide drilling of high-priority conductors, **Bomb-Diggity intrusion**, and potential gold-bearing intrusions.



Figure 1 – VTEM being flown over Oonagalabi project location.

Litchfield Minerals Limited (ASX: LMS) ("Litchfield" or "the Company") is pleased to announce the commencement of a **Versatile Time Domain Electromagnetic (VTEM™ Max)** and magnetic geophysical survey covering the entirety of the Company's Oonagalabi Project in the Northern Territory.

As of the date of this announcement, the VTEM survey is **21% complete** and progressing well, with completion **on track for the end of this week**.

VTEM is a high-resolution airborne geophysical technique designed to detect accumulations of conductive massive sulphide mineralisation at depth. The system transmits a strong electromagnetic pulse into the ground and measures the returning signal, enabling the identification of conductive bodies that may represent significant copper-zinc mineralisation.

The VTEM survey is particularly well-suited to Oonagalabi because geological evidence to date suggests the deposit may represent either a **Sedimentary Exhalative (SEDEX)** or **Skarn-style** system. While the precise classification is still under investigation, both deposit types typically host massive sulphide zones rich in conductive minerals such as chalcopyrite and pyrrhotite. These zones often generate strong electromagnetic responses, making VTEM an effective method for mapping their size, geometry, and depth extent.

Previous drilling at Oonagalabi has confirmed **copper-zinc sulphide mineralisation over significant widths**, however, only a small portion of the known 3km mineralised trend has been tested[1]. The VTEM program will provide a project-wide view, capable of detecting untested zones along strike and at depth, while also refining structural and geological interpretations when integrated with the complete airborne magnetic coverage gathered during the same survey.

The survey, contracted to UTS Geophysics Pty Ltd, will cover a total of **1,015 line kilometres** over a single block, including:

- **EL32279** – 819 line km at 200m spacing, oriented 148°/328° with tie lines at 2,000m spacing (58°/238°).
- **Infill Oonagalabi** – 196 line km of 100m infill line spacing.

[1] ASX Announcement – 3rd June 2025 - Gold Emerges in High-Mag Zone at Oonagalabi – Bomb Diggity Now Priority Target

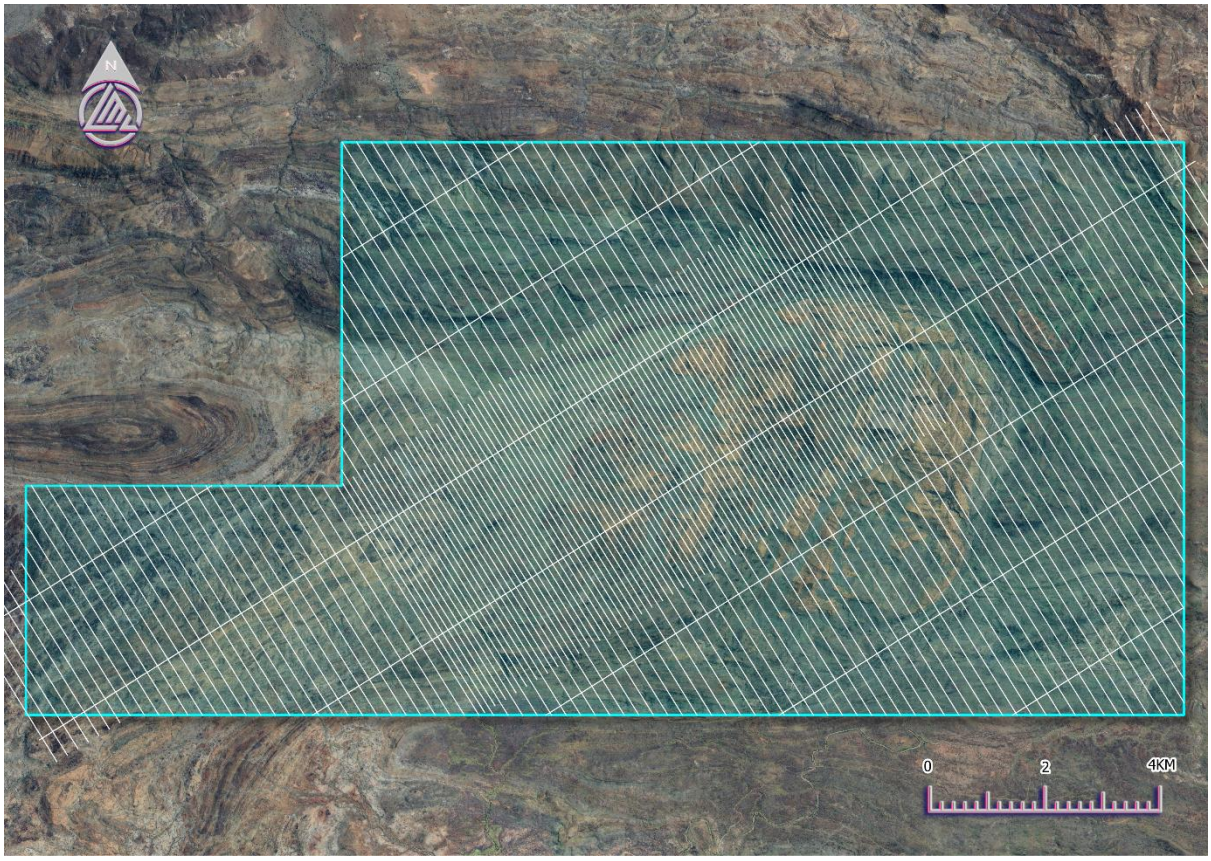

Figure 1 – Flightline coverage at Oonagalabi will comprise 100m line spacing over the Central Zone and 200m line spacing across the remainder of the tenement.

Litchfield's Managing Director, Matthew Pustahya, commented:

"The VTEM survey is a major step forward for Oonagalabi. We already know from drilling that we have copper-zinc sulphides in the system and VTEM gives us the ability to see the bigger picture — both laterally and at depth. The potential for Oonagalabi to be either a SEDEX or Skarn system is exciting as both are known to host high-grade massive sulphide zones, which VTEM is ideally suited to detect. Importantly, the survey will also deliver full airborne magnetic coverage, sharpen our geological models and enable us to target the most prospective zones with greater confidence."

Operational Progress:

- 5 August 2025: VTEM crew arrived on site to erect the VTEM loop, which attaches to the helicopter.
- 9 August 2025: Survey helicopter arrived at Mt Riddock Station.
- 10 August 2025: Survey flying commenced, with an expected duration of 4–5 days.
- Two weeks post-survey: Final VTEM data will be delivered by UTS Geophysics.

- **Following 7–10 days:** Mitre Geophysics will complete target interpretation and provide drill-ready recommendations.

Upcoming Catalysts

• VTEM results to define high-priority conductors
• Drilling at Bomb Diggity and suspected gold-bearing intrusions
• Further drilling on any priority VTEM conductors identified

Cautionary Statement

This announcement contains forward-looking statements that involve known and unknown risks, uncertainties, and other factors that may cause actual results, performance, or achievements to differ materially from those expressed or implied. Such statements include but are not limited to, interpretations of geophysical data, planned exploration activities, and potential mineralisation outcomes. Forward-looking statements are based on Litchfield Minerals Limited's current expectations, beliefs, and assumptions, which are subject to change in light of new information, future events, and market conditions. While the Company believes that such expectations and assumptions are reasonable, they are inherently subject to business, geological, regulatory, and operational risks. Further work, including drilling, is required to determine the economic significance of any anomalies identified. Investors should not place undue reliance on forward-looking statements. Litchfield Minerals Limited disclaims any obligation to update or revise any forward-looking statements to reflect events or circumstances after the date of this announcement, except as required by law.

About Litchfield Minerals

Litchfield Minerals is a critical mineral explorer, primarily searching for base metals and uranium out of the Northern Territory of Australia. Our mission is to be a pioneering copper exploration company committed to delivering cost-effective, innovative and sustainable exploration solutions. We aim to unlock the full potential of copper and other mineral resources while minimising environmental impact, ensuring the longevity and affordability of this essential metal for future generations. We are dedicated to involving cutting-edge technology, responsible practices and stakeholder collaboration drives us to continuously redefine the industry standards and deliver value to our investors, communities and the world.

The announcement has been approved by the Board of Directors.

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Competent Person's Statement

The information in this Presentation that relates to Exploration Results is based on, and fairly represents, information and supporting documentation compiled by Mr Russell Dow (MSc, BScHons Geology), a Competent Person who is a Member of the Australian Institute of Mining and Metallurgy (AUSIMM) and is a full-time employee of Litchfield Minerals Limited. Mr Dow has sufficient experience that is relevant to the style of mineralisation and types of deposits 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" (JORC Code). Mr Dow consents to the inclusion in the report of the matters based on his information in the form and context in which it appears. With regard to the Company's ASX Announcements referenced in the above Announcement, the Company is not aware of any new information or data that materially affects the information included in the Announcements.