LITCHFIELD MINERALS LIMITED

LMS.ASX

ASX Announcement | 27th September 2024

INVESTOR WEBINAR PRESENTATION

Litchfield Minerals Limited ("Litchfield" or the "Company" or ASX: LMS), is pleased to announce its participation in the ShareCafe Small Cap "Hidden Gems" Webinar, to be held Friday 27th September 2024 from 12:30pm AEST.

Managing Director and CEO, Matthew Pustahya, will provide an overview of the Company, which is a pioneering copper exploration company using sustainable methods to unlock copper resources in the Northern Territory.

To access further details of the event and to register at no cost, please copy and paste the following link into your internet browser:

https://us02web.zoom.us/webinar/register/WN_GiJJRBNARRyFtm1ty4AzfQ

A recorded copy of the webinar will be made available following the event.

The announcement has been approved by the Board of Directors.

For further information please contact:

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INVESTOR PRESENTATION

LITCHFIELD

MINERALS LIMITED

SEARCHING THE ARUNTA REGION & GEORGINA BASIN FOR CRITICAL MINERALS

27 September 2024

DISCLAIMER

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LITCHFIELD OVERVIEW

Exploration Focused, with potential for major near-term discoveries in the Northern Territory, surrounded by high-quality critical minerals explorers and developers.

•Exploring Northern Territory's Arunta region and Georgina basin, specifically in historically underexplored areas.

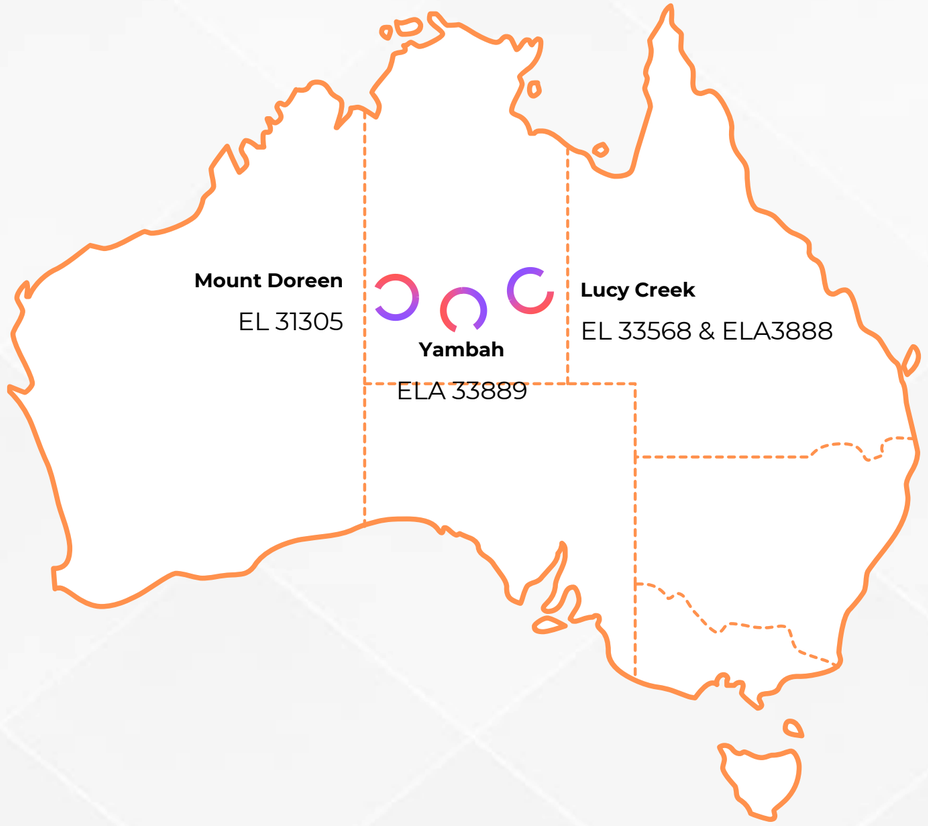
•Highly prospective areas for base & precious metals along with other critical minerals.

•Historical high-grade intercepts across the various tenements with strong exploration upside.

•Mount Doreen (EL 31305), located 350km's northwest of Alice Springs, offers high potential for economic concentrations of base and precious metals.

•Lucy Creek Located 400km's northeast of Alice Springs and covering nearly 1600km^2 under licenses EL33568 & ELA33888, Lucy Creek is a prime target for manganese, sedimentary base metals, and rare earth elements.

•Yambah - Adjacent to the Coles Hill deposit in the Central Arunta, the package spans approximately 600km^2. It encompasses three distinct copper areas which have seen limited historical exploration. Given this context, we believe the area holds significant potential for further exploration upside."



EXECUTIVE SUMMARY



TOP BOARD & MANAGEMENT TEAM

Our team brings a combined experience of over a century in mining, geoscience, and exploration. With global expertise, strong technical skills, and a proven track record, we are well-positioned to drive successful mineral discoveries and deliver value for shareholders.



EXPLORATION FOCUSED

At Litchfield Minerals, we focus on exploring and discovering high-value mineral deposits. Utilizing advanced geophysical techniques and precise drilling, we constantly refine our exploration models to maximize the potential of our tenements.



UNDEREXPLORED, MONSTER COUNTRY

The Georgina Basin and Arunta regions in the Northern Territory offer significant exploration potential. Rich in Manganese, phosphate and rare earth elements, the Georgina Basin complements the Arunta's promising gold, base metals, prospects in complex geological landscapes.

THE TEAM



DR. PETER EAGLEN
NON-EXECUTIVE CHAIRMAN

Peter brings more than 35 years of experience in the mining and metals sector working as site management leadership and, most recently, leading assurance activities for the Board of Rio Tinto Having previously worked across the globe on mining, refining and smelting projects and operations with Rio Tinto, Bechtel, Pasminco CRA and Mount Isa Mines Peter's roles have enabled extensive experience throughout health, safety, environmental, security and closure management matters Peter is highly recognised by Board members and Executive Directors for delivering assurance and advice that enhances and protects their organisation's value With a track record for assisting senior leaders and Board members with insights, due diligence matters for mergers, acquisitions, divestments and effective management.



PROF. MARK NOPPE
NON-EXECUTIVE DIRECTOR

Mark has over 35 years of experience applying geoscience knowledge in the assessment of developing resource projects and operating mines As a leading advisor in geoscience and the mining industry, Mark provides advice, training and mentoring in all aspects of orebody knowledge, from exploration reporting, data assessment, resources definition and reporting, mine geology and grade control through to inputs to reserving Mark's clients include the technical leads, management and boards of Resource project owners, as well as the investors, lenders and legal advisors to these projects He has worked in South Africa, Western Australia and Queensland, and consulted on a variety of projects and commodities in a range of geological, mining and geographic settings.



MATTHEW PUSTAHYA
MANAGING DIRECTOR

Matthew has dedicated many years to exploring Australia's most promising metalliferous terrains. With extensive experience in both private and public mineral exploration, he has successfully initiated and executed numerous exploration projects, consistently meeting timelines and budgets. Over his career, Matthew has developed a vast network of industry connections, from engineers and drillers to earth movers and pastoralists, which has been instrumental in the success of his projects. He further enhanced his commercial acumen by completing an MBA at the Macquarie Graduate School of Management (MGSM).



RUSSEL DOW
EXPLORATION MANAGER

A motivated and pragmatic geoscientist with 20+ years of global experience across various commodities and deposit types. Continuously updating knowledge to apply the latest exploration strategies and technologies.
Strong technical expertise in deposit types like porphyry Cu-Au, epithermal Au-Ag, iron oxide Cu-Au-REE, Skilled in GIS, database management, data analysis.
Experienced in regional exploration, project generation, and team leadership, with a proven ability to design and manage exploration programs. Key contributor to the discovery of the Lindero Au porphyry mine in Argentina
(2.5Moz resource).
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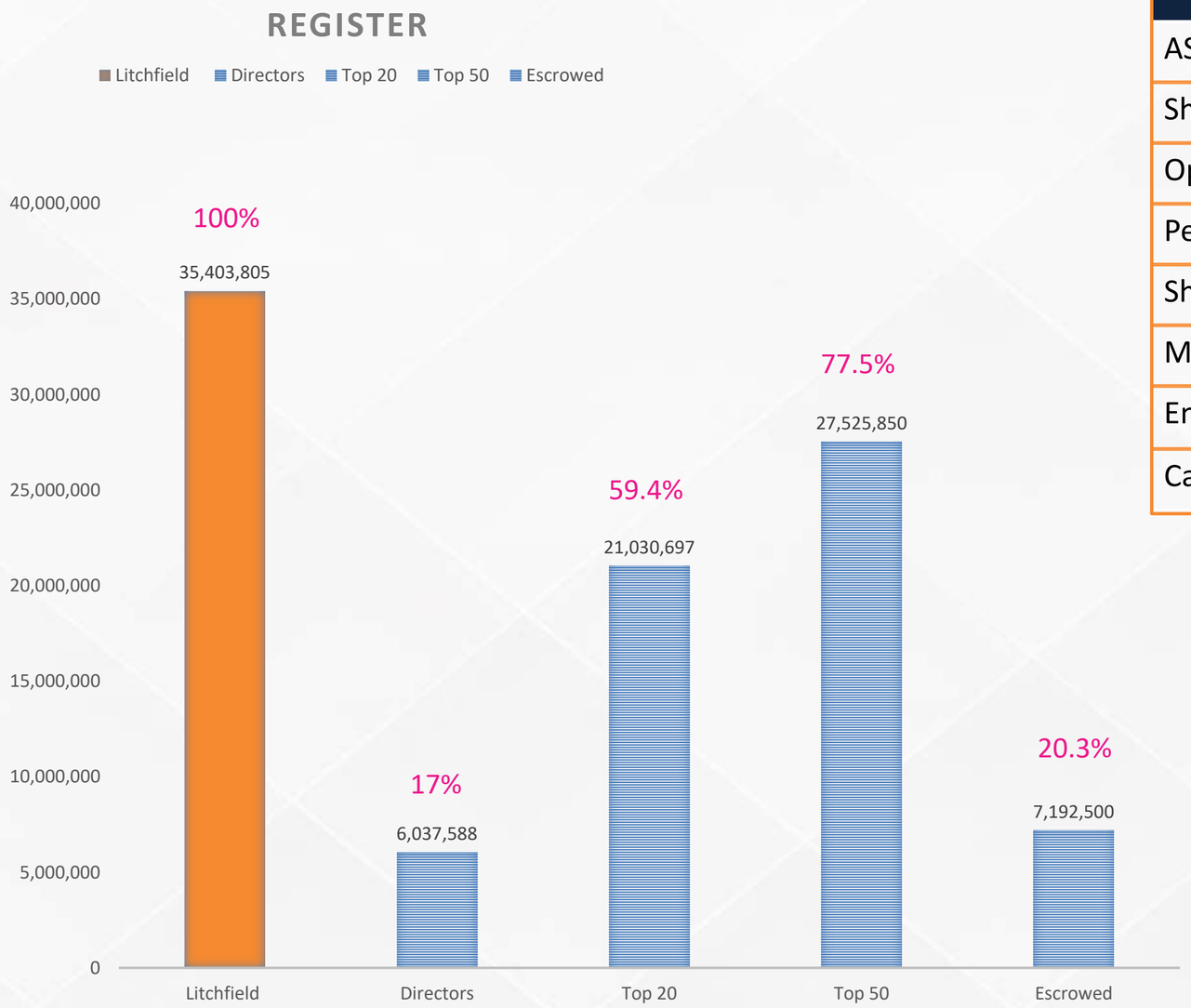
CAPITAL STRUCTURE



Capital Structure	
ASX Code	LMS
Shares (ordinary)(includes escrowed)	35.4m
Options (unlisted)	8.2m
Performance Rights (unlisted)	7.0m
Share Price:	12.5 cents (1)
Market Capitalisation:	A$4.4m
Enterprise Value:	A$0.6m
Cash:	A3.8m (2)

(1) As at 09/09/2024

(2) As at 30/06/2024 Audited

MOUNT DOREEN & EXPLORATION SINCE IPO

MOUNT DOREEN – EL31305

MONSTER COUNTRY

Sits in the heart of the West Arunta, which is home to WA1's recent Luni Discovery It also sits on the contact of the Ngalia basin, adjacent to one of Northern Territory's best Uranium deposit (Bigryli).

MULTIPLE MINERALISED AREAS

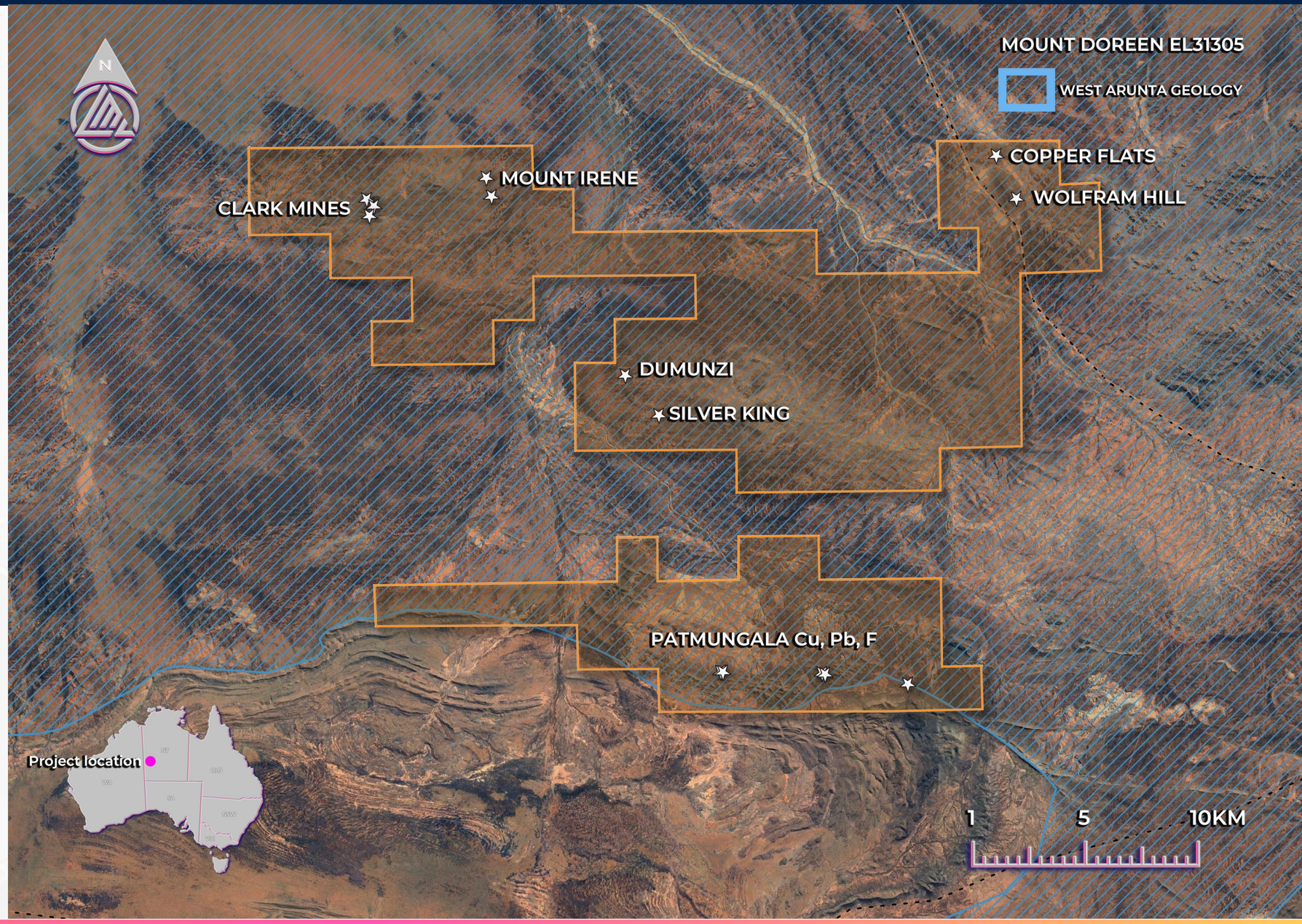
Comprising five mineralized prospects—Silver King, Mount Irene, Wolfram Hill, Clark Mines, and Patmungula—this tenement showcases a variety of polymetallic deposits. Each prospect features a rich blend of copper, lead, zinc, silver, gold, linked by their association with **intrusive-related veins, pegmatites, and breccias.**

GOOD INFRASTRUCTURE

The Mount Doreen tenement is only 350 km north - northwest of Alice Springs. The tenement is accessible by the newly sealed Tanami road.

ROAD TO DISCOVERY

Good exploration database including historical and modern geochemical, geological and geophysical data. With 6 walk up target areas to explore and three drilled, we are well on our way to understanding the mineralised systems better.



EXPLORATION SINCE MARCH IPO

Drilling Overview

- Silver King: A total of six holes were completed, comprising four diamond holes (619 meters) and two RC holes (442 meters), totaling 1,061 meters[1]. The drilling intersected multiple sulphide zones, ranging from disseminated to semi-massive and massive sulphides, primarily composed of sph-gal-cpy-pyr-po. Best intercept 17m @ 2.5% Pb, 1% Zn & 33m @ 0.6% Zn & 0.3% Pb

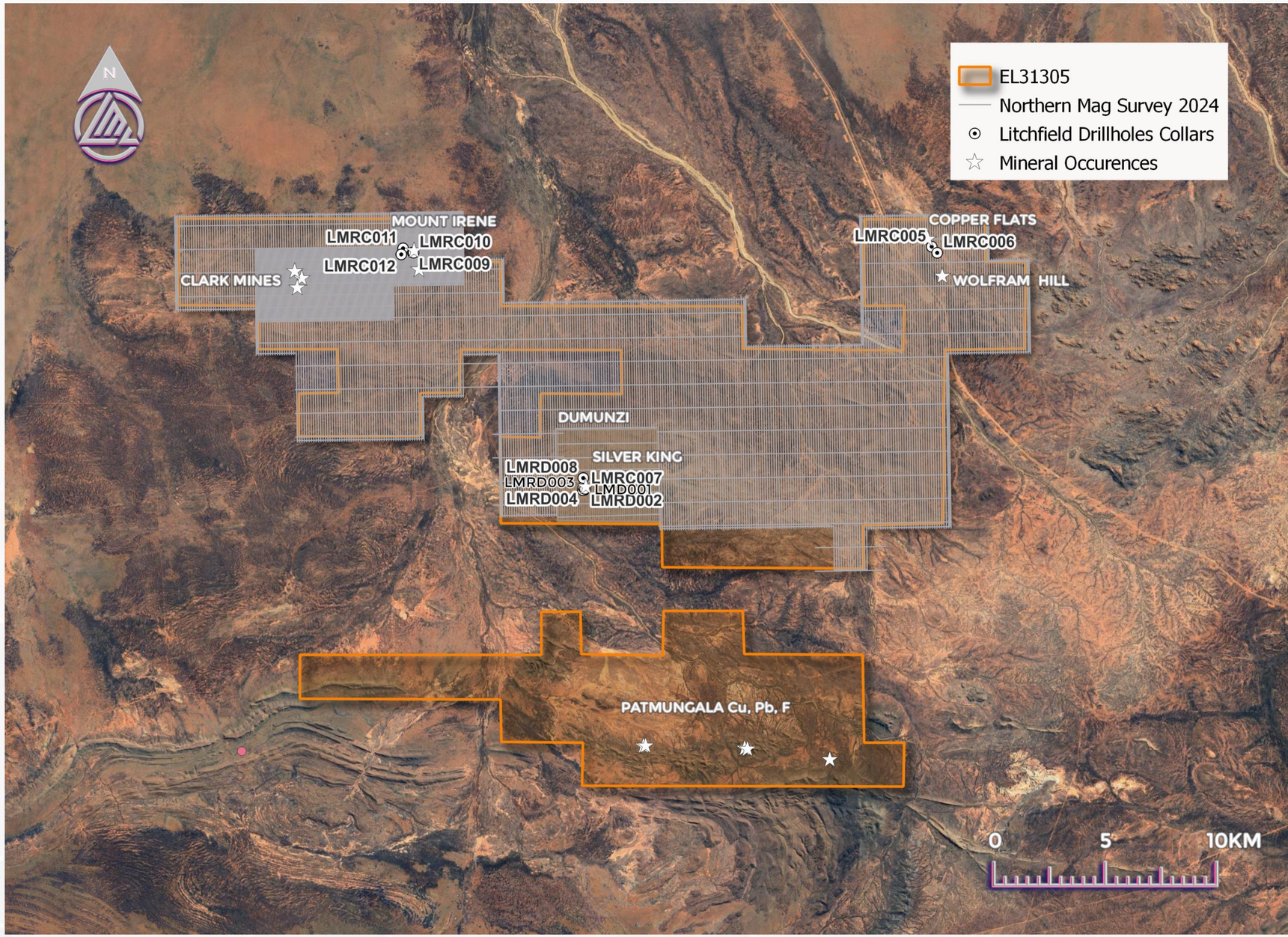
- Copper Flats: The drilling technically succeeded in intercepting the targeted structure; however, no mineralisation was encountered.

- Mount Irene: The drilling yielded an interesting result; however, the RC hole was terminated early due to water ingress. The primary target remains untested and is still under consideration.

Aeromagnetic

- Completed a survey covering 4,222-line kilometers, primarily at 100m spacing, with infill at 50m spacing across the Clark, Mount Irene, and Silver King areas[2].

- Reinterpreted both historical and newly acquired data, integrating Rio Tinto's Annie Springs magnetic data with our recent survey results. This integration has allowed for a comprehensive and highly refined interpretation of the entire tenement package.



1. Refer ASX Announcement – 15/08/2024 – Drilling confirms massive base metal sulphides,Refer ASX Announcement - 11/04/2024 – Chargeable trends identified at Mount Irene

EXPLORATION CONTINUED

VTEM

- We've recently completed a survey of 2,254-line kilometers at 200-meter spacing, specifically designed to detect potential massive sulphide conductors(1). We are currently awaiting further interpretation of the data.

Induced Polarisation

- Copper Flats - 17 Lines of gradient array - 4 Lines of pole-dipole induced polarisation completing a 1,100m L x 1,500m W grid
- Mount Irene - 10 lines of gradient array induced Polarisation 1,500m L x 800m W.(2).

Two Gravity Surveys

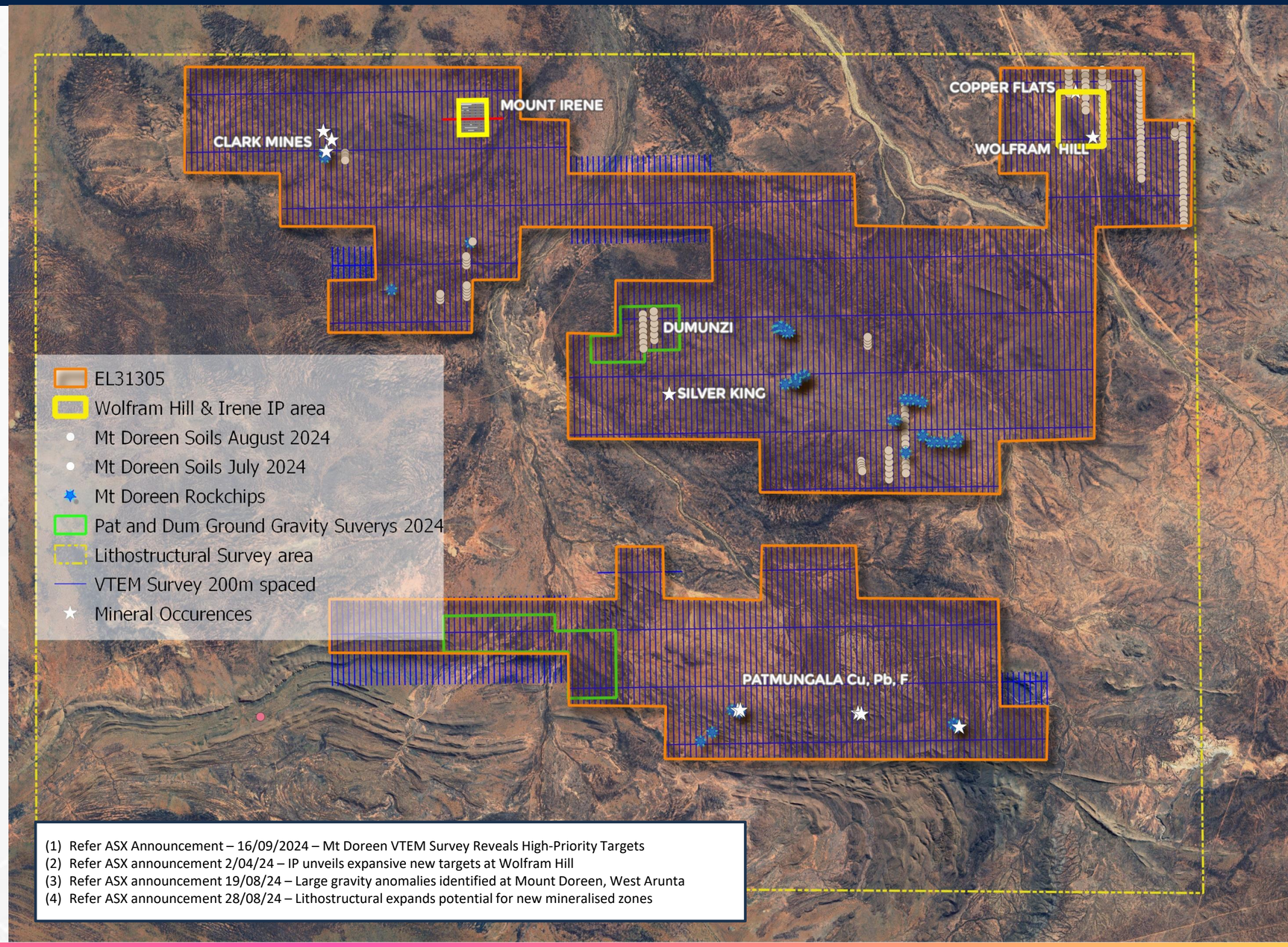
- Gravity was completed over two areas (Dumunzi & Patmungala) In July 2024, a ground gravity survey was carried out by Planetary Geophysics, covering 344 stations at 200m spacing in a grid formation.(3)

Lithostructural Interpretation

- Tenement wide lithostructural survey using all available magnetic, gravity, radiometric and mapping data.(4)

Rock Chip & Soils Sampling

- 75 Rock chip samples testing for rare earth and uranium fertility.
- 134 Soil samples to test again for areas of rare earth and uranium fertility. (4)



(1) Refer ASX Announcement – 16/09/2024 – Mt Doreen VTEM Survey Reveals High-Priority Targets
(2) Refer ASX announcement 2/04/24 – IP unveils expansive new targets at Wolfram Hill
(3) Refer ASX announcement 19/08/24 – Large gravity anomalies identified at Mount Doreen, West Arunta
(4) Refer ASX announcement 28/08/24 – Lithostructural expands potential for new mineralised zones

SILVER KING RESULTS

- All diamond drill holes intersected varying degrees of mineralisation from stringer to massive sulphides. (1)(2)

- In Hole 4 (LMRD004), a more substantial zone of base and precious metals was encountered, providing promising indications that this target could be open to further exploration.

- Currently we are awaiting interpretation of the VTEM survey to guide subsequent exploration efforts.

Best intercepts at Silver King were in LMRD004 (2)

- **17m @ 2.5% Pb, 1.0% Zn, 16 g/t Ag from 49m,** including 3m @ 11.84% Pb, 5.62% Zn, 57.1 g/t Ag from 51m
- **33m @ 0.6% Zn, 0.3% Pb, 2 g/t Ag from 0m,** including 7m @ 1.48% Zn, 0.6% Pb, 3.0 g/t Ag from 25m.

Best intercept in LMD001 was

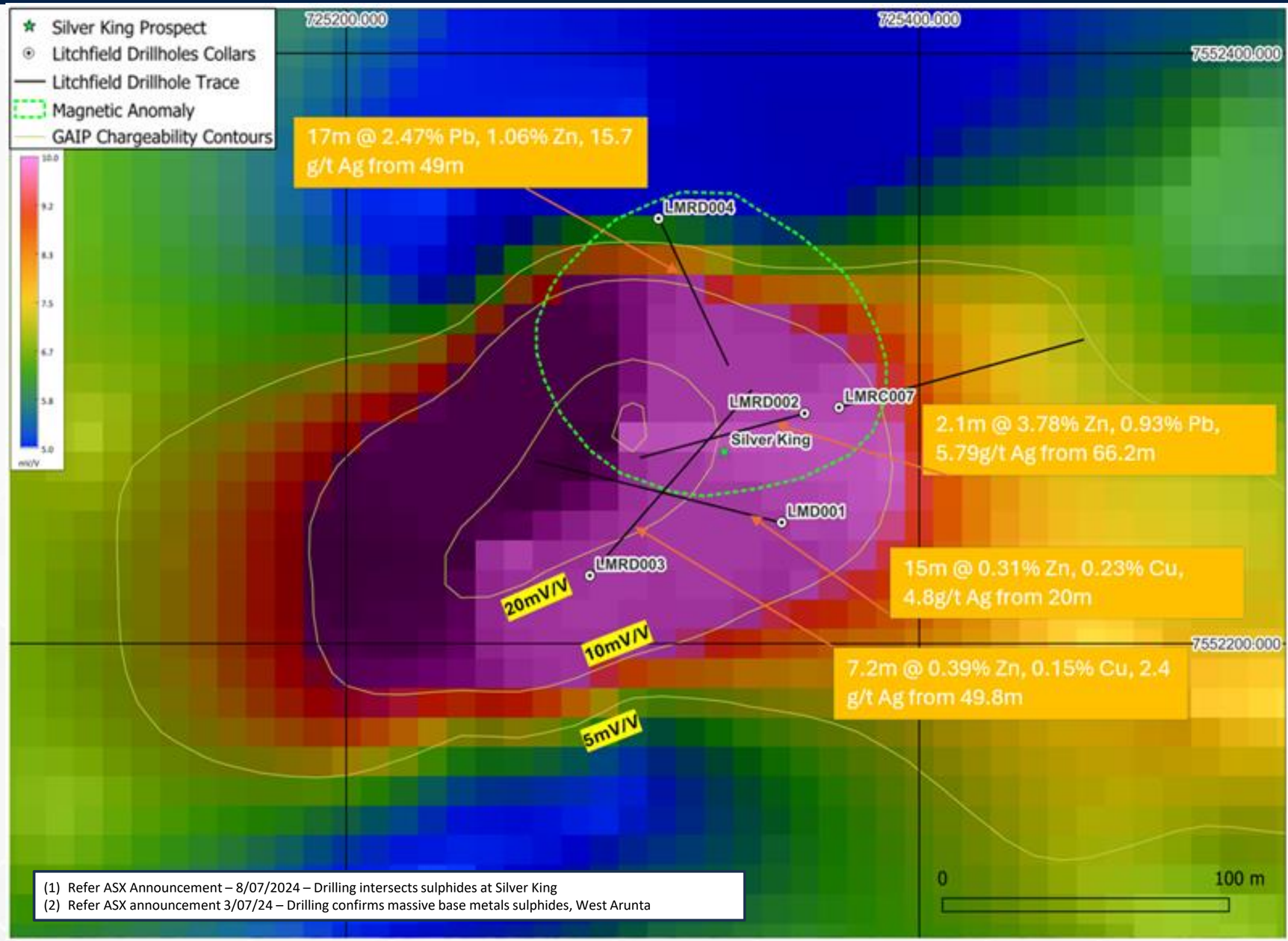
- 15m @ 0.23% Cu, 0.31% Zn, 4.8g/t Ag, from 20m, including 2.25m @ 0.49% Cu, 0.35%Zn, 0.14% Pb, 16.7g/t Ag, 0.08 g/t Au from 20.75m.

Best intercept in LMRD002 was

- 3.9m @ 0.11% Cu, 0.28% Zn, 363ppm Pb, 1.27 g/t Ag from 25

Best Intercepts in LMRD003, were

- 5.2m @ 0.14% Cu, 0.18% Pb, 0.21% Zn, 14.1 g/t Ag from 22.8m.
- 7.2m @ 0.15% Cu, 0.39% Zn, 2.4 g/t Ag from 49.8m.



(1) Refer ASX Announcement – 8/07/2024 – Drilling intersects sulphides at Silver King
(2) Refer ASX announcement 3/07/24 – Drilling confirms massive base metals sulphides, West Arunta

MOUNT IRENE DRILL RESULTS

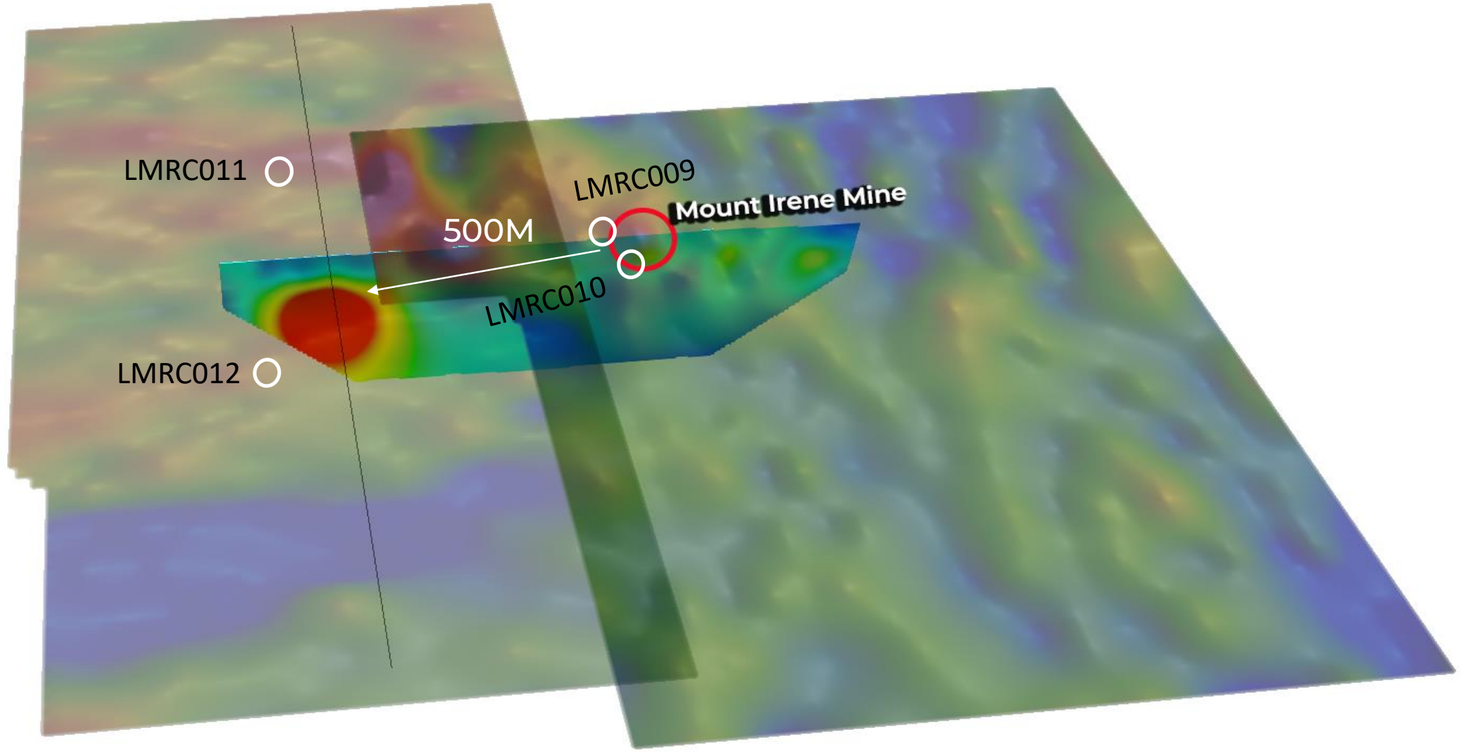
A total of four RC holes were drilled for 408m. Two RC holes were designed to test the known mineralised outcrop (LMRC009 & LMRC010). (1)

The other two holes (LMRC011 & LMRC012) were designed to test a gradient array anomaly, and a pole-dipole induced polarisation anomaly.

RC Drilling Outcrop results
LMRC009: 3m @ 0.14% Cu, 0.15% Pb, 2g/t Ag
LMRC010: 14m @ 0.4% Zn, 0.2% Cu, 1g/t Ag, including 1m @ 1.2% Zn, 1.2% Cu, 6.6g/t Ag

LMRC011
We encountered a quartz structure, but it showed minimal mineralisation. Additionally, sample recovery was poor due to water inflow.

LMRC012
A large, highly chargeable body located 500m west of the Mount Irene outcrop, likely associated with known mineralisation, was drilled by our team. However, we were unable to reach the target depth of 220m, stopping at 160m due to excessive water inflow and poor sample recovery.



(1) Refer ASX announcement 3/07/24 – Drilling confirms massive base metals sulphides, West Arunta

NEW TARGETS – MOUNT DOREEN

DUMUNZI TARGET

•Dumunzi is a key magnetic target identified north of the Silver King prospect during our recent aeromagnetic survey (1).

•High mags are located within a potential dilational zone at the intersection of significant geological structures.

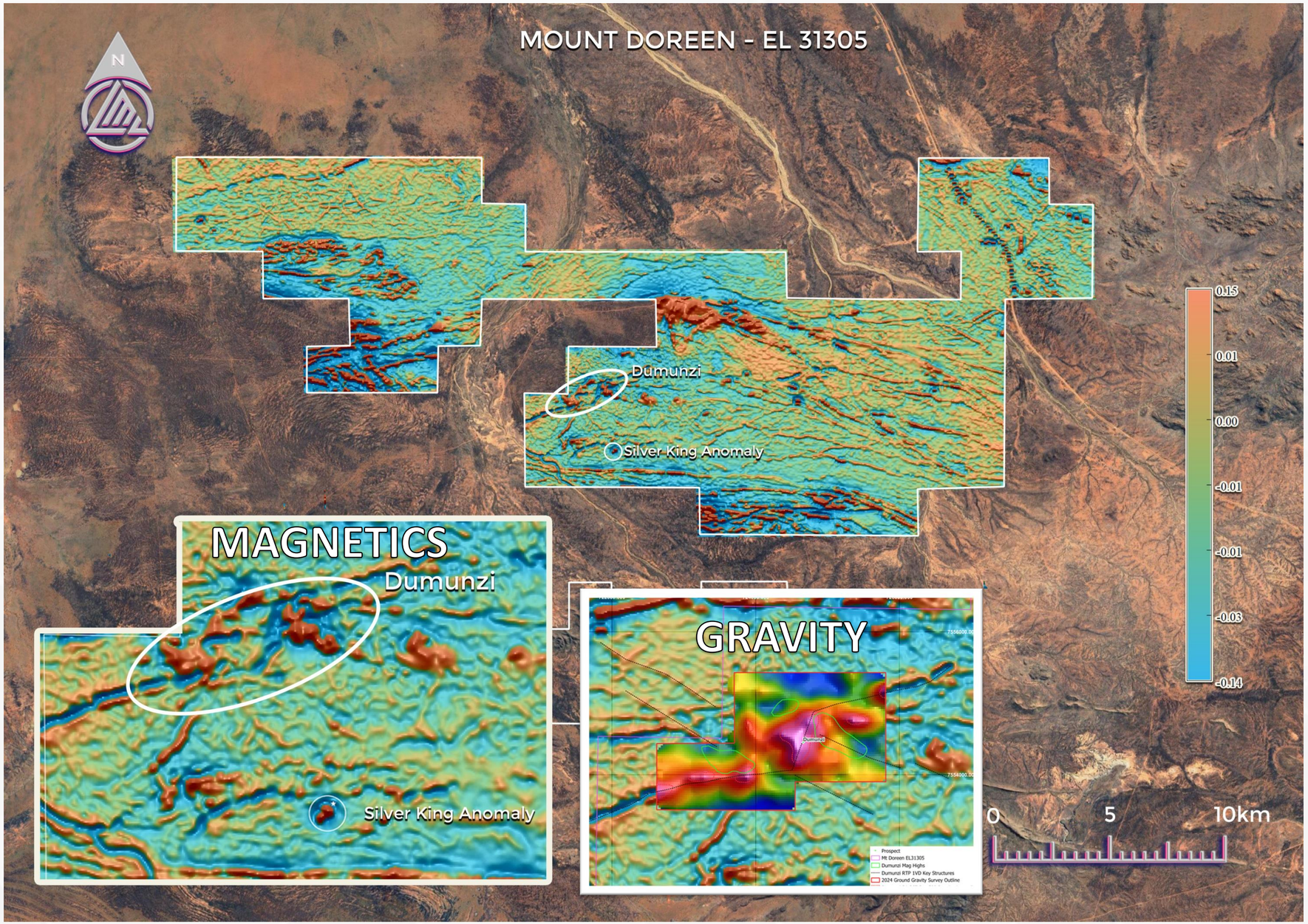
•Gravity over the area uncovered several promising features sitting within the reversely magnitised structures.

•The Gravity anomalies also sit between and are offset to the magnetic anomalies making this target even more compelling.

•Our team has undertaken preliminary soil sampling aimed at evaluating base metal and rare earth element fertility in the area as we believe this feature maybe of an alkaline/ carbonatite affinity

•We await our VTEM & Geochemistry results before planning any holes for the end of the year drilling campaign.

(1) Refer ASX announcement 19/08/24 Large gravity anomalies identified at Mt Doreen, West Arunta



PRELIMINARY VTEM RESULT

- The tenement-wide (VTEM™ Max) survey is now complete, having collected 2,254-line kilometers of data[1].

- The identified priority targets are strategically situated near clearly defined geological structures or contacts, as determined from prior lithostructural interpretation.

- The survey revealed 7 high-priority rank 1 VTEM conductors with strong late-time responses, five of which are new discoveries.

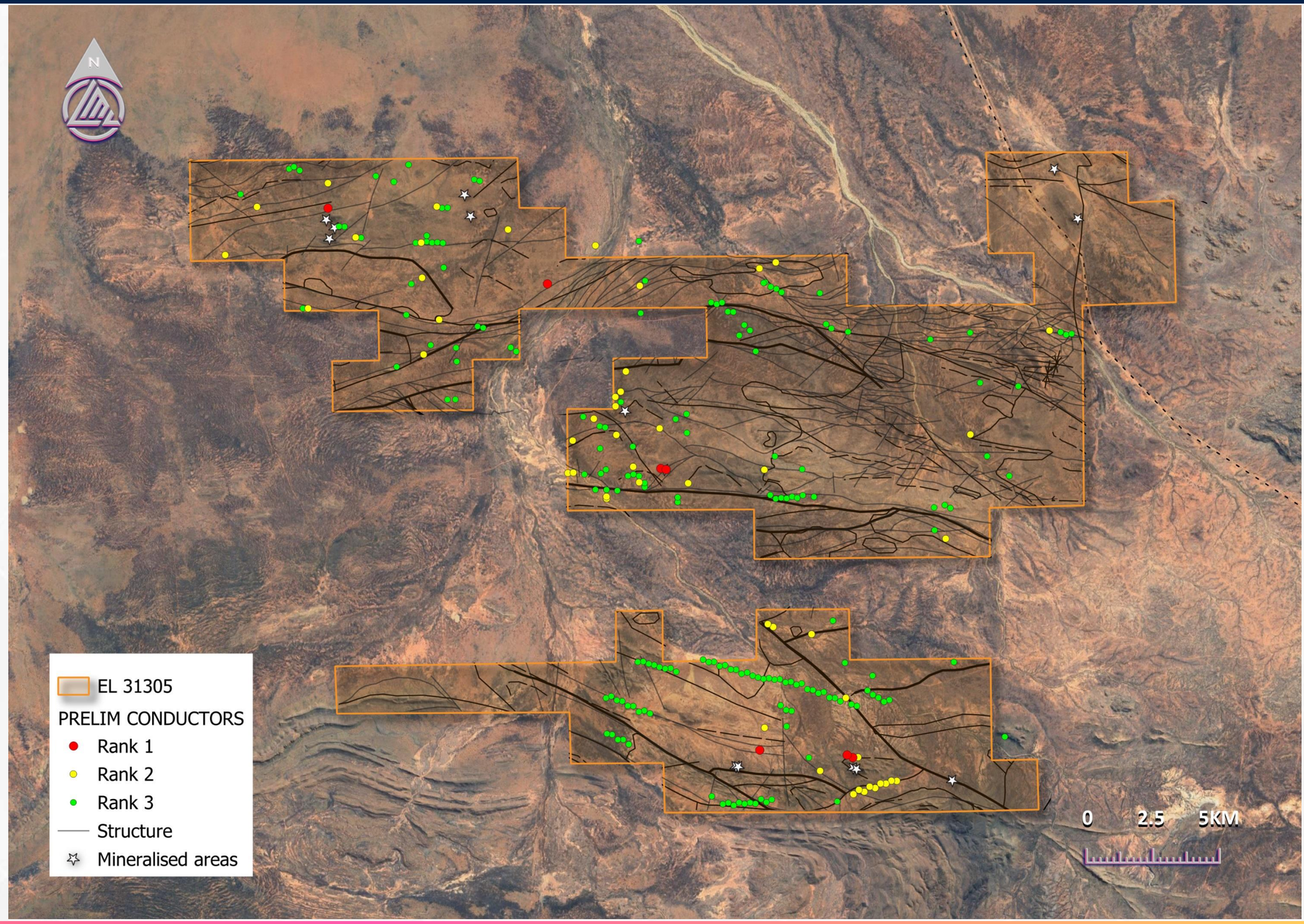
- An additional 50 anomalies were classified as medium priority, displaying mid- to late-time conductive responses.

- These priority VTEM targets are typically indicative of semi-massive or massive sulphide deposits.

- Detailed anomaly identification and modeling are forthcoming, with the final dataset expected within the next month.

- What's Next? Ground MLEM in October and Drilling into the close of the year.

(1) Refer ASX Announcement – 16/09/2024 – Mt Doreen VTEM Survey Reveals High-Priority Targets



LUCY CREEK – EL33568 & ELA33888

LUCY CREEK – MANGANESE

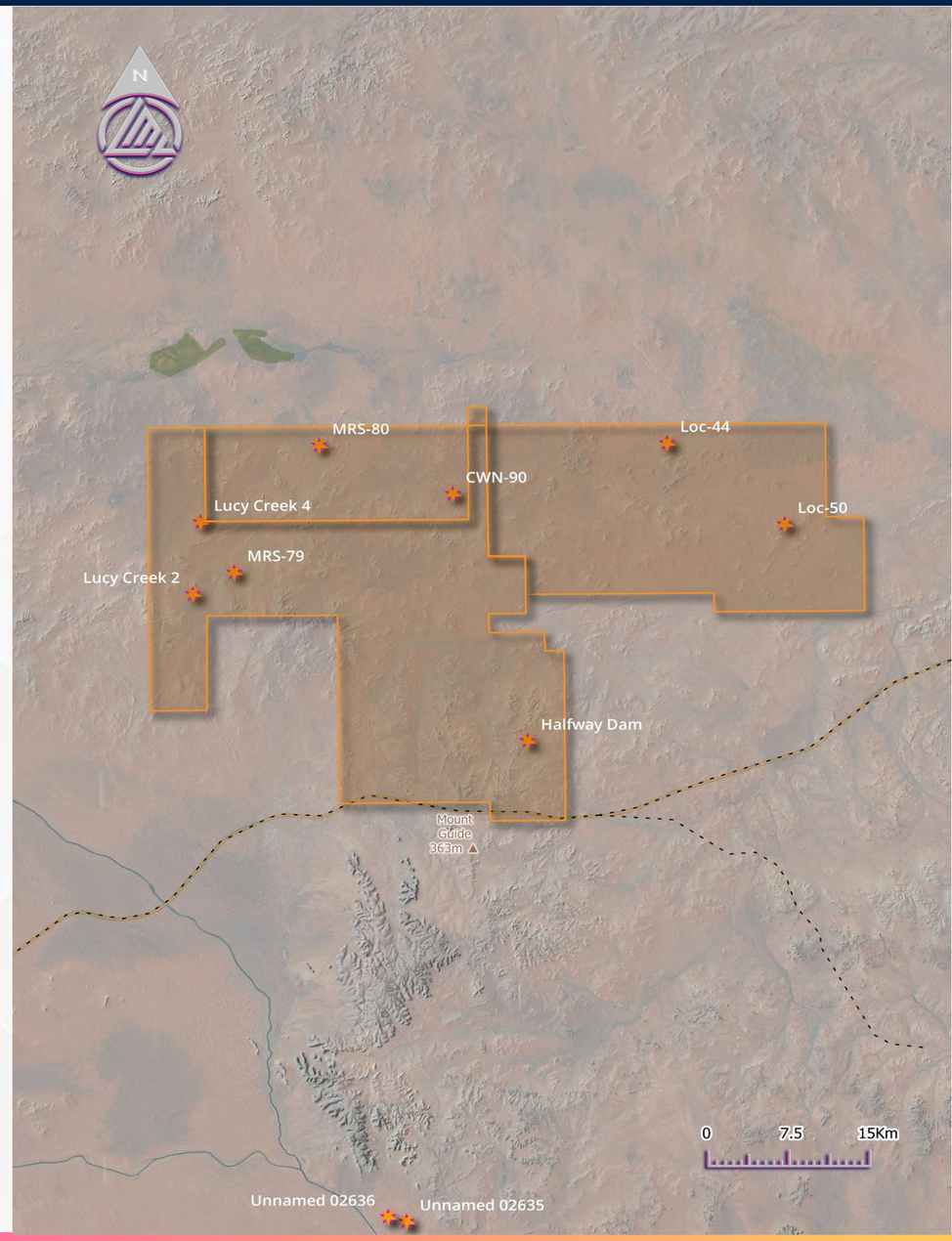
Lucy Creek Project Overview:
400km East of Alice, within a 1600km^2 tenure with multiple manganese occurrences(1).

Key sites: Lucy Creek and Halfway Dam.

- The Lucy Creek and Halfway Dam manganese occurrences are hosted in both the Cambrian and Ordovician sedimentary rocks of the southern Georgina Basin.
- At Lucy Creek 2 area, the manganese oxides extends over 1 square kilometer within the Tomahawk Formation.
- Historical shallow drilling at lucy creek 2 revealed down dip extensions showing low-grade mineralisation (3–11% Mn) to a depth of 18m.
- Drill results are highly encouraging to the regions manganese potential where numerous Mn expressions with no drilling, that outcrop over a very large area within the Litchfield tenure.

Target style of Deposits: Bootu Creek.

- The Bootu Creek Mn deposits (~20Mt @ 22% Mn)(2), situated in the Ashburton Province of the Tennant region are composed of a series of manganiferous ridges and knolls extending over 24 km around an open syncline.
- Originally believed to be surficial mineralisation, drilling conducted in 1997 revealed massive manganese oxides which were concentrated and upgraded, located 60m beneath the surface.
- Subsequent drilling targeted a conductive EM zone, successfully delineating two mineable manganese seams named Shekuma and Go Go. These seams averaged 5–8m in thickness and 2000m in length, extending to a depth of 60m.



(1) Refer ASX Announcement – 18/09/2024 – Major Manganese, REE & Base Metals Potential Lucy Creek
(2) Refer to PDF - https://www.omholdingsltd.com/wp-content/uploads/2019/03/2019.03.18-ASX-OMH-Bootu-Creek-Mineral-Resource-Ore-Reserve-and-Exploration-Update.pdf

GEOLOGICAL MODELS

Litchfield Minerals Exploration Model's

Primary Focus - Sedimentary Manganese model

- Sedimentary manganese oxide deposits are the predominant commercial source of manganese ore. They lead in global manganese production and account for most identified manganese resources.

- We know sediment-hosted Mn deposits are present within the Northern Teritorry specifically in in Palaeoproterozoic rocks of the Ashburton Province (Tennant Region), Cambrian rocks of the Amadeus Basin and Cambrian–Ordovician rocks of the Georgina Basin.

Base Metals - Mississippi Valley-Type deposits (MVT)

Historical assays from the Lucy Creek tenements, which involved sampling iron-rich and manganiferous outcrops, have yielded significant results for base metals such lead, zinc & barium.

- MVT deposits occur in dolomite or limestone within large sedimentary basins. They are formed in shallow, stable geological settings, often near the edges of continents.

- The primary minerals found in MVT deposits are lead (Pb) and zinc (Zn), often in the form of galena and sphalerite. Other common minerals include barite, fluorite, and calcite.

- MVT deposits develop when mineral-rich fluids move through sedimentary rocks and deposit minerals, primarily driven by the movement of fluids across the basin.

Other Exploration Models
Hydrothermal base metals and or secondary rare earth deposits



LUCY CREEK INNOVATION

- How do we explore our nearly 1600 square kilometers of ground efficiently?
- Helicopters are very expensive and traditionally the prime mode of exploration around this region.
- Traditional exploration methods may have missed subtle geological signals, especially in complex sedimentary environments.

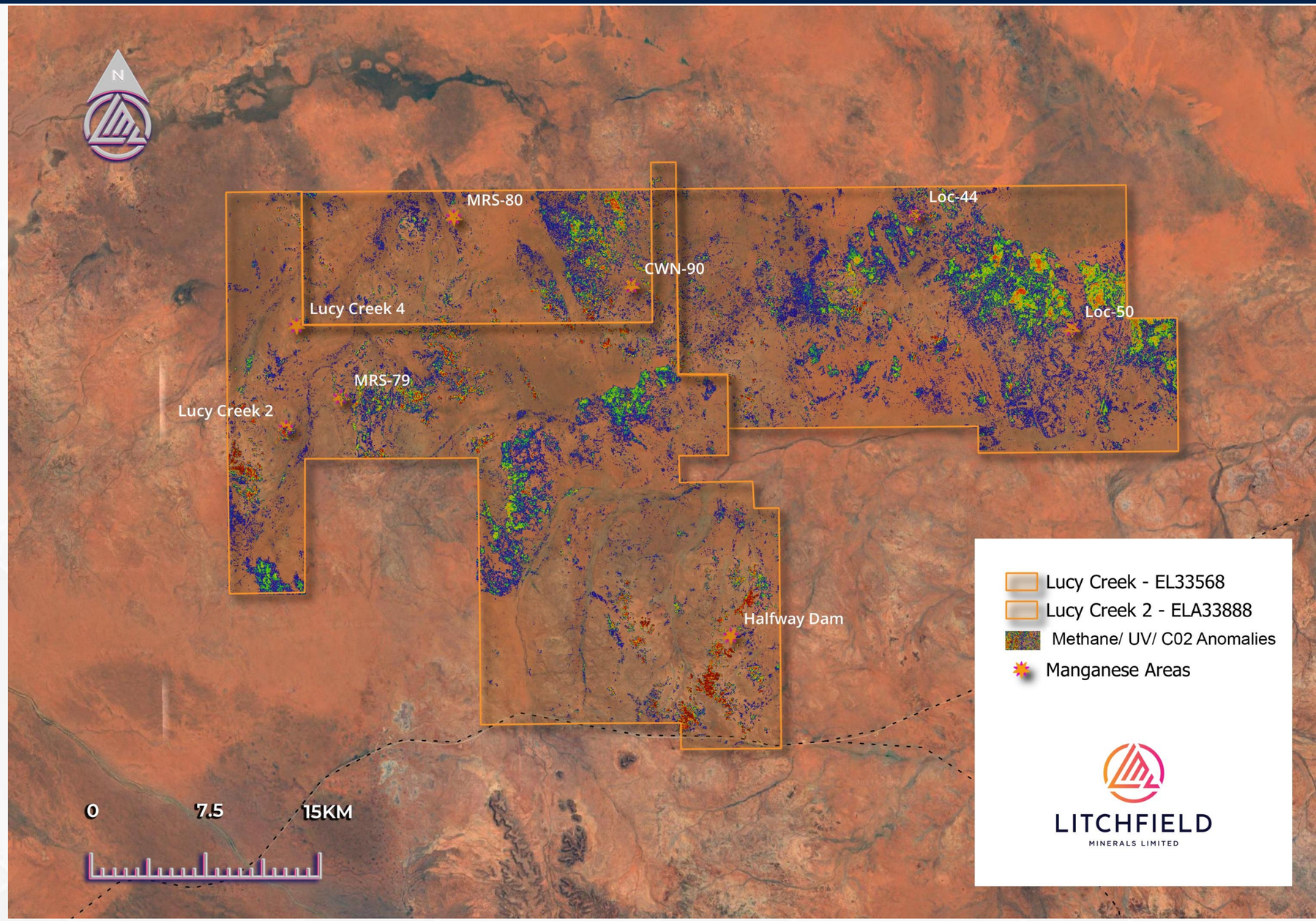
Remote sensing data

- Remote sensing data has the potential to help our team to identify new targets and areas of mineralisation that wasn't found by previous explorers.
- Remote sensing data works well for Manganese and MVT styles of mineralisation.

Remote sensing data for Mn Exploration

- Methane, shows a strong correlation with manganese minerals like rhodochrosite, which is likely due to the breakdown of organic matter within this mineral[(1)].
- C02 is also closely associated with rhodochrosite, a manganese carbonate mineral, and C02 is also likely produced through weathering processes.
- UV fluorescence - Mn-rich dolomites tend to vivid fluorescence of colors, meaning UV remote sensing this is a potentially useful tool for mapping Mn in dolomitic siltstones.

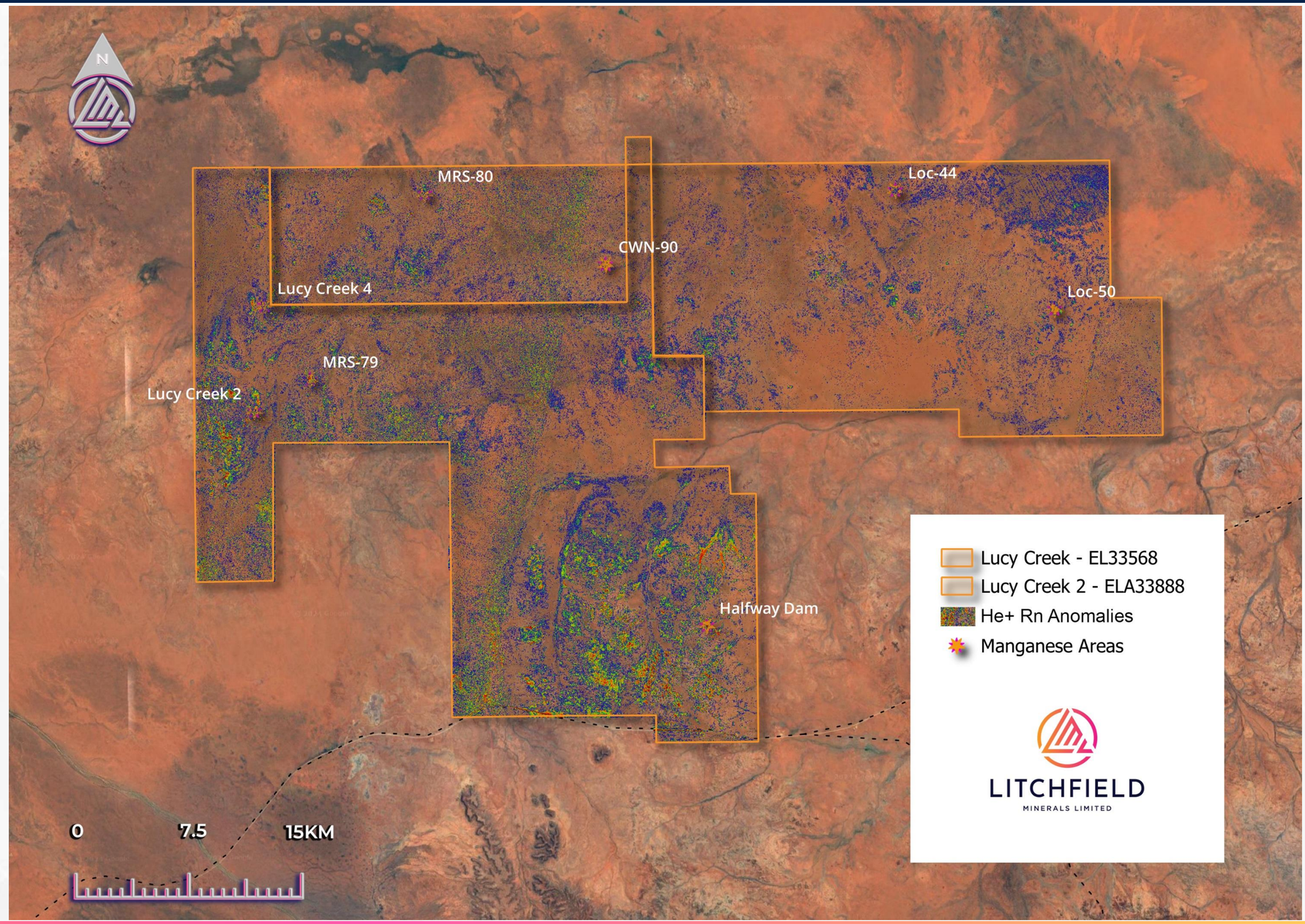
(1)Refer ASX Announcement – 18/09/2024 – Major Manganese, REE & Base Metals Potential Lucy Creek



MVT/ HELIUM & RADON

MVT STYLE DEPOSIST

- Radon and Helium are radiogenic gases produced from the natural decay of uranium and thorium in mineral deposits(1).
- Uranium can be an indicator of MVT-style mineralisation due to its tendency to precipitate in the same reducing conditions that favor the deposition of lead and zinc
- Both gases are explored as geochemical tools because their levels at the surface can indicate the locations of subsurface mineral concentrations that are not otherwise detectable with traditional exploration methods.
- This remote sensing approach can help to efficiently narrows down potential exploration zones across our large tenements, which should help us to not only reduce costs but pinpoint precise areas to explore in.



(1) Refer ASX Announcement – 18/09/2024 – Major Manganese, REE & Base Metals Potential Lucy Creek

WHATS NEXT? - LUCY CREEK 2025

Geological Mapping

- Field Mapping: Conduct detailed geological mapping of the target area to understand the stratigraphy, lithology, and structural geology. Focus on identifying sedimentary basins with potential manganese-bearing formations.

Geochemical Surveys

- Rock Chip Sampling: Collect rock chip samples for looking for manganese and associated elements like iron, cobalt, and barium with lead and zinc for MVT style mineralisation.

- Surface Geochemical Sampling: Perform systematic grid-based or stream sediment geochemical sampling to detect anomalous concentrations of manganese and pathfinder elements.

Geophysical Surveys

- Electromagnetic Surveys: These can help identify subsurface changes in the rock types and structures that may host manganese deposits.

- Gravity Survey: Conduct a gravity survey to delineate dense manganese ore bodies against the less dense host sedimentary rocks.

Drilling Program

- Scout Drilling: Initiate a preliminary drilling program based on the results from geochemical and geophysical surveys to test the depth and extent of identified anomalies.



YAMBAH PROJECT ELA33889

YAMBAH – ELA33889

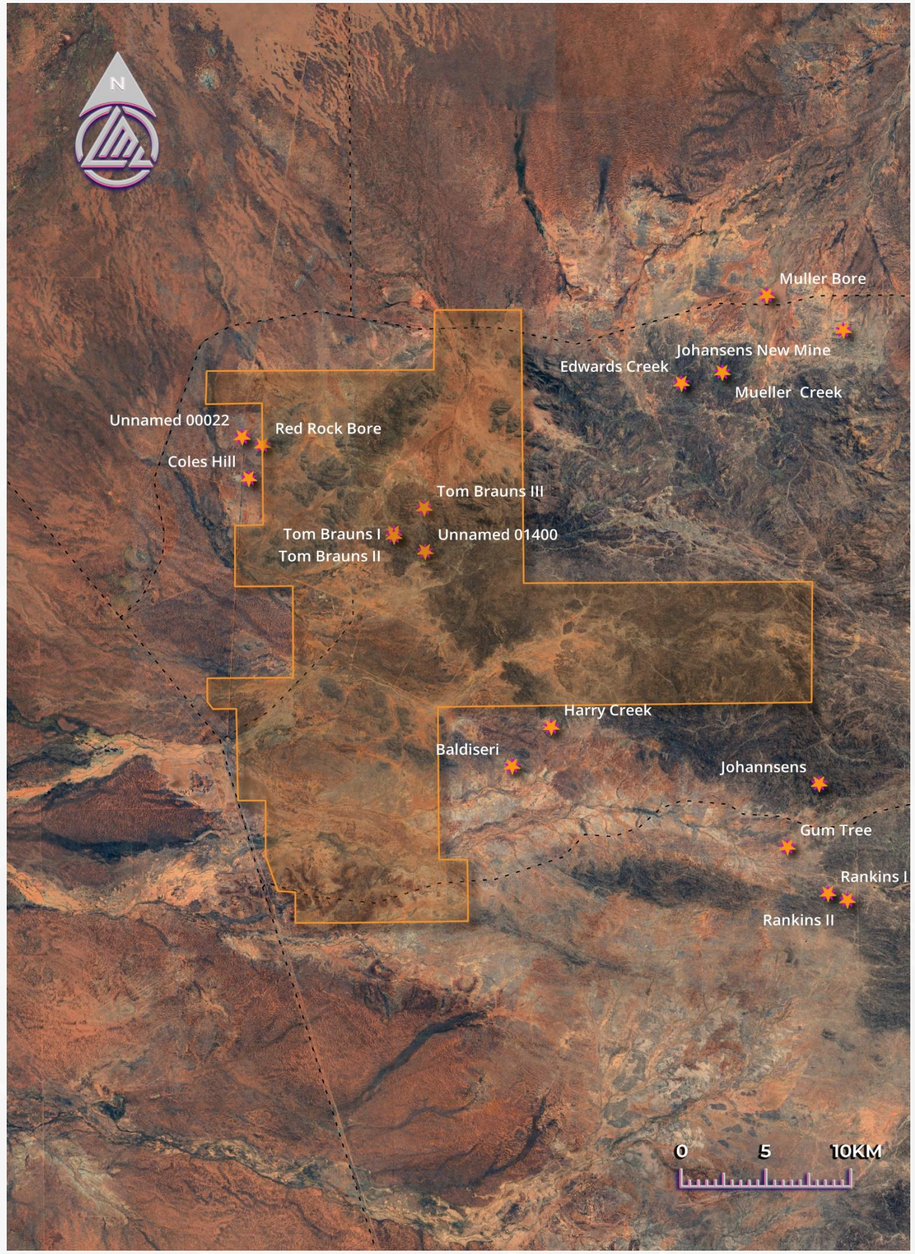
Region: Arunta Region, North Australian Craton.

Mineralisation:
Primary Minerals: Copper, with associated zinc, silver, and minor gold.

Geological Setting:
The project area is located 70km North of Alice Springs. It's dominated by the Paleoproterozoic Strangways Metamorphic Complex (SMC), which consists of felsic and mafic granulites, orthogneiss, paragneiss, and minor calc-silicates. The known base-metal occurrences surrounding the project area are largely stratabound, related to metamorphosed volcanic rocks. Numerous IOCG, VMS and Intrusion related vein systems in the area(1).

Known Mineralisation:

- The Tom Brauns Prospects which lies within high-grade metamorphic rocks of the Strangways Metamorphic Complex, specifically within granulite metasediments.
- The Tom Brauns II occurrence, the most notable within the prospect, consists of a 5-meter thick pyroxenite body, stained with malachite and azurite, indicating the potential for significant copper mineralisation.
- The pyroxenite, composed of approximately 70% pyroxene and 30% olivine, is coarse-grained and undeformed, trending north-south and traceable for about 100 meters within the host biotite-quartz-feldspar gneiss.
- The prospect area is influenced by significant retrograde shear zones that traverse the region, contributing to the structural complexity and potential mineralisation.



(1) Refer to website https://geoscience.nt.gov.au/gemis/ntgsjspui/handle/1/70428

WHATS NEXT? – YAMBAH

Geological Mapping

•**Detailed Field Mapping**: Conduct field surveys focusing on outcropping rocks and alteration zones that may indicate hydrothermal systems associated with copper and other base metals.

•**Lithostructural survey -** Lithostructural surveys are critical in identifying regions where mineral deposits are likely to form. Understanding both the rock types and the structural features of an area can help pinpoint where valuable minerals such as gold, copper, or rare earth elements might be concentrated.

Geophysical Survey's

•**VTEM survey:** to provide a detailed view of the conductivity of the ground. This method is highly effective in detecting discrete conductive anomalies often associated with sulfide mineralisation, which could be indicative of copper and base metal deposits

Geochemical Survey's

•**Grid-Based Geochemical Sampling**: Implement a dense grid sampling strategy over promising areas to detect geochemical anomalies of copper and associated metals like zinc, lead, and silver.

Drill Decision

Once all data has been collected and interpreted, we will be able to decide on drilling across the Yambah tenement.



TIMELINE OF WORK

THE NEXT THREE MONTHS

Project	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25
Mt Doreen	Soil Sampling											
	Ground Gravity											
		Lithostructural Interp										
			VTEM									
				VTEM Modelling								
					Ground EM							
						RC Drilling						
							Decision Gate					
									IP			
									Downhole EM			
										RC Drilling		
												RAB Drilling
Lucy Creek				Soil Sampling	Data Interpretation							
									RAB Drilling			
										Decision Gate		
											VTEM	
												VTEM Modelling
Yambah								VTEM				
									VTEM Modelling			
										Ground EM		
											Decision Gate	
												RC Drilling

COMPETENT PERSON STATEMENT & REFERENCES

COMPETENT PERSON 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.

Forward-Looking Statements and Important Notice

Statements regarding plans with respect to Litchfield's project are forward-looking statements. There can be no assurance that the Company's plans for the development of its projects will proceed as currently expected. These forward-looking statements are based on the Company's expectations and beliefs concerning future events. Forward-looking statements are necessarily subject to risks, uncertainties, and other factors, many of which are outside the control of the Company, which could cause actual results to differ materially from such statements. - Table 1 report

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