

*Carolina Mine Circa 1900*



# REVIVING TOTTENHAM

**LOCKSLEY  
RESOURCES  
LIMITED**

ACN 629 627 144

**June 2022**

**CLSA  
Australia  
Exploration  
Access Day**

# Disclaimer

## For Consideration

This presentation has been prepared by Locksley Resources Limited ("Locksley Resources"). This document contains background information about Locksley Resources current at the date of this presentation. The presentation is in summary form and does not purport to be all inclusive or complete. Recipients should conduct their own investigations and perform their own analysis in order to satisfy themselves as to the accuracy and completeness of the information, statements and opinions contained in this presentation. This presentation is not an offer, invitation, solicitation or other recommendation with respect to the subscription for, purchase or sale of any securities in the Locksley Resources. This presentation has been made available for information purposes only and does not constitute a prospectus, short form prospectus, profile statement or offer information statement nor does it constitute investment or financial product advice (nor taxation, accounting or legal advice) and it is not intended to be used as the basis for making an investment decision. This presentation does not constitute investment advice and has been prepared without taking into account the recipient's investment objectives, financial circumstances or particular needs. Recipients should seek professional advice when deciding if an investment is appropriate. All securities involve risks which include (among others) the risk of adverse or unanticipated market, financial or political developments. To the fullest extent permitted by law, Locksley Resources Limited, its officers, employees, agents and advisors do not make any representation or warranty, express or implied, as to the currency, accuracy, reliability or completeness of any information, statements, opinions, estimates, forecasts or other representations contained in this presentation. No responsibility for any errors or omissions from this presentation arising out of negligence or otherwise are accepted.

## Forward-Looking Statements

This presentation may include forward-looking statements. Forward-looking statements are only predictions and are subject to risks, uncertainties and assumptions which are outside the control of Locksley Resources. Actual values, results or events may be materially different to those expressed or implied in this presentation. Given these uncertainties, recipients are cautioned not to place reliance on forward looking statements. Any forward looking statements in this presentation speak only at the date of issue of this presentation. Subject to any continuing obligations under applicable law, Locksley Resources does not undertake any obligation to update or revise any information or any of the forward looking statements in this presentation or any changes in events, conditions, or circumstances on which any such forward looking statement is based. The proposed business and operational plans and use of funds and their relative priority is subject to ongoing review and evaluation by the Company and is dependent upon the availability of funds; infrastructure and personnel; government approvals; agreements with traditional and other land holders; co-operation of third party suppliers and contractors as well as weather and other seasonal factors. As with any business plans and budgets, the actual use of funds, plans and timing of events may change depending on the outcome of the programs as they proceed. The Board will evaluate plans on an ongoing basis considering the various relevant factors and reserves the right to alter the way in which funds are applied, timing of events and the overall business and operational plans themselves. No warranty as to the accuracy of the above information is given and investors should rely upon their own due diligence when making an investment. An investment in Locksley Resources Limited must be considered as speculative.

## Competent Persons Statement

The information in this report related to Exploration Results is based on information compiled by Ian Cooper BSc(Hons) BE(Mining) MSc, MAUSIMM, (member # 106609). Mr Cooper has over 35 years' experience in the exploration and mining industry. Mr Cooper is a full-time employee and shareholder of Locksley Resources. Mr Cooper has sufficient experience that is relevant to the style of mineralisation and type of deposit 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. Mr Cooper consents to the inclusion in the presentation of the matters based on his information in the form and context in which it appears. The Competent Person for the 2022 Resource is Mr Jeremy Peters FAusIMM CP(Geo, Min), a Director of Burnt Shirt Pty Ltd. The Mineral Resource estimate is stated in accordance with the provisions of the JORC Code (2012). Mr Peters has more than five years' experience in the estimation and reporting of Mineral Resources for base metal mineralisation in Australia and overseas, 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 Peters consents to the inclusion in the presentation of the matters based on his information in the form and context in which it appears.

## Previous Disclosure

The information in this presentation that relates to Exploration Results has been extracted from historic open file exploration reports and Locksley Resources' ASX announcements, all of which are available at [locksleyresources.com.au](http://locksleyresources.com.au). Locksley Resources confirms that it is not aware of any new information or data that materially affects the information included in these original market announcements and that all material assumptions and technical parameters underpinning the relevant market announcements continue to apply and have not materially changed. Locksley Resources confirms that the form and context in which the Competent Person's findings are represented have not been materially modified from the original market announcements. The Board of Directors of Locksley Resources Limited authorises the release of this presentation.

# Summary

- Australian exploration company with the purpose of identifying and assessing resource opportunities within Australia
- Focused on the exploration and development of the mineral resources at **Tottenham** NSW within the highly prospective Lachlan Fold Belt.
- **Historic Production** from the Bogan River, Mount Royal – Orange Plains, Carolina, Underlay and Ace Mines. The most active period of production was between 1905 and 1917. After 1917 production continued sporadically until 1990. **Recorded production is estimated at 3907t Cu** with minor gold (4.5kg) and silver (24.1kg).
- Significant previous exploration with **JORC 2012 Compliant Resources**
- **Resource extensions & multiple exploration targets** to progress.
- Target areas include Ace, Jimmy Woodser, Larkings, Burdenda, Bogan River.
- Tottenham district includes a **50km** mineralised corridor
- Exploration progressed by data compilation, magnetic surveys, electromagnetic surveys, ground gravity, mapping, drilling.



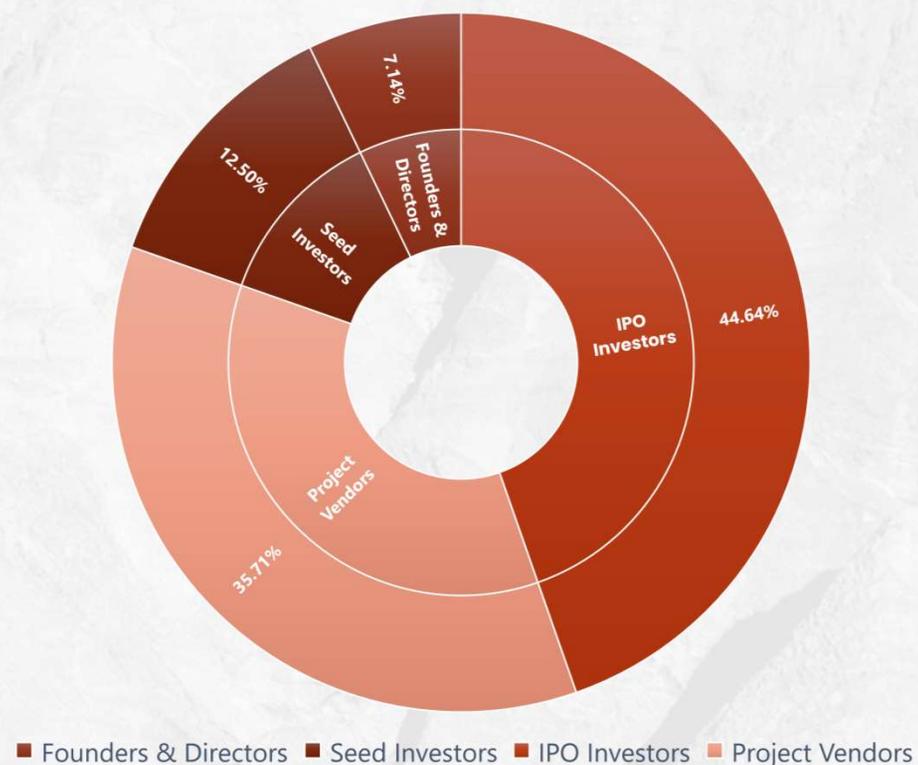
# Corporate Overview

Locksley Resources listed on the ASX in July 2021

ASX Code	LKY
Shares in Issue	56,000,001
Options in Issue	9,000,000
Market Capitalisation ( \$0.15 )	\$8.4m
Cash at Bank (31 Mar 2022)	\$2.33m
Freehold Property Ownership	\$100,000
Enterprise Value (31 Mar 2022)	\$6.0m

## Shareholder Breakdown

(July 2021)



# Tottenham Project

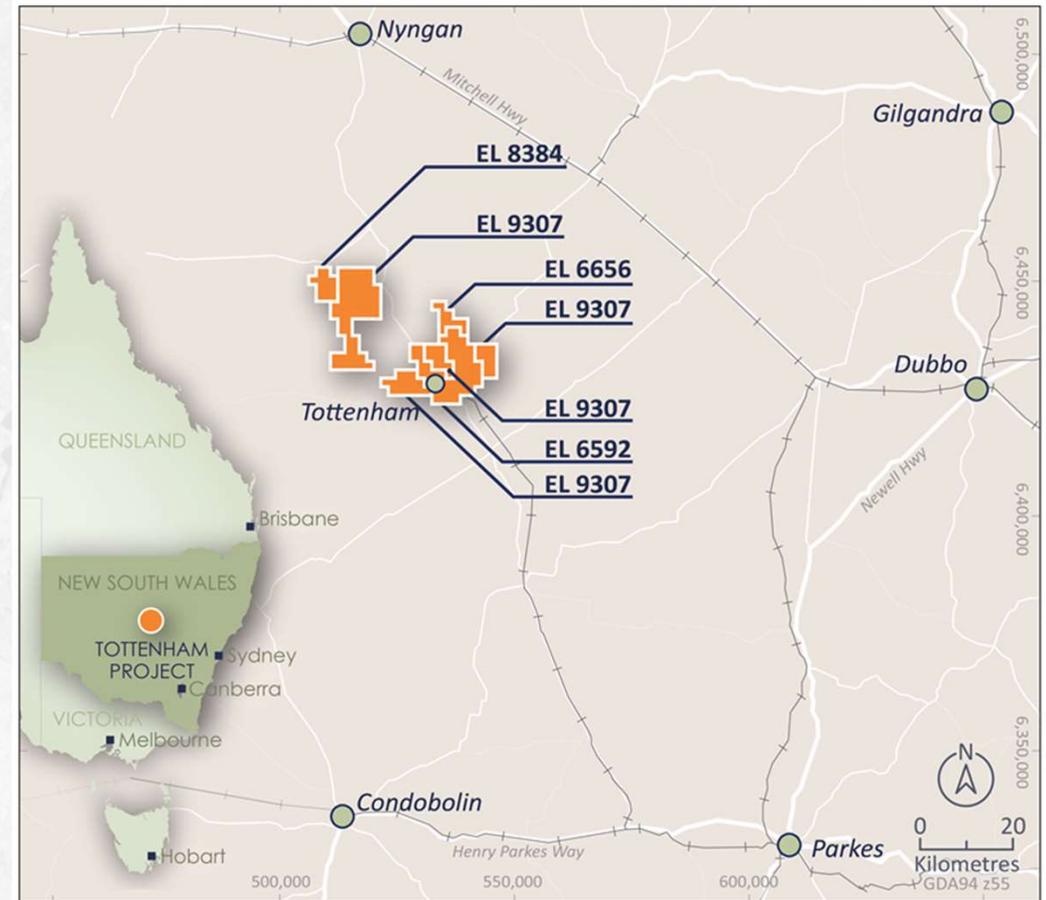
- Located in the highly prospective Lachlan Fold Belt, central NSW
- Infrastructure in place. Access by sealed roads and unsealed shire roads. Rail access to Tottenham. Town with grid power, sealed airstrip, school, police, hospital.
- **Multiple Known Deposits**

## 4 Granted Exploration Licences

- 470km<sup>2</sup> Land Package

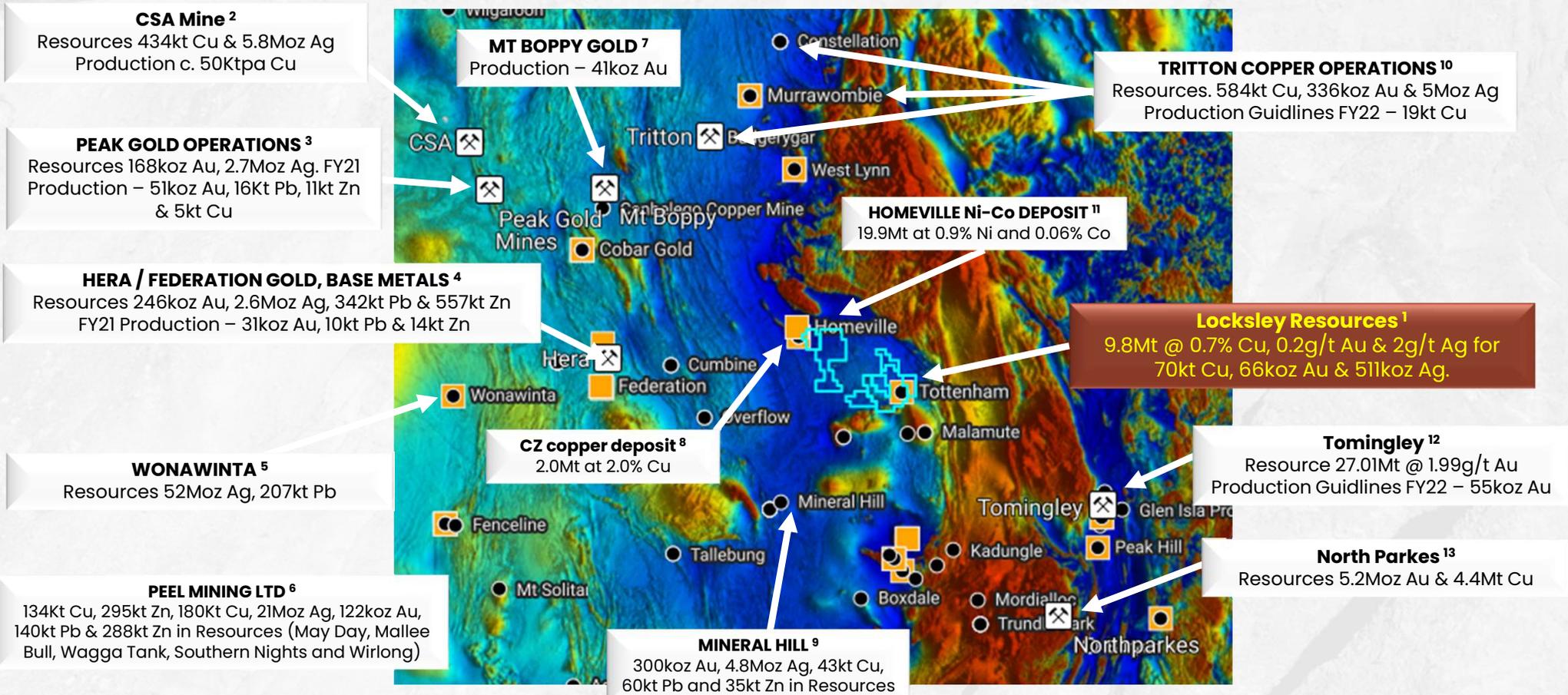
## JORC 2012 Compliant Resource

- Initial resource calculated on two areas, being Carolina and the Mount Royal to Orange Plains Deposits  
**9.86Mt @ 0.72% Cu, 0.22g/t Au & 2g/t Ag  
for 70kt copper, 66koz gold & 511koz Ag**



*The Competent Person for the 2022 Resource is Mr Jeremy Peters FAusIMM CP(Geo, Min), a Director of Burnt Shirt Pty Ltd. The Mineral Resource estimate is stated in accordance with the provisions of the JORC Code (2012). Mr Peters has more than five years' experience in the estimation and reporting of Mineral Resources for base metals mineralisation in Australia and overseas, 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 Peters consents to the inclusion in the presentation of the matters based on his information in the form and context in which it appears.*

# Highly Prospective Lachlan Fold Belt & Tottenham district



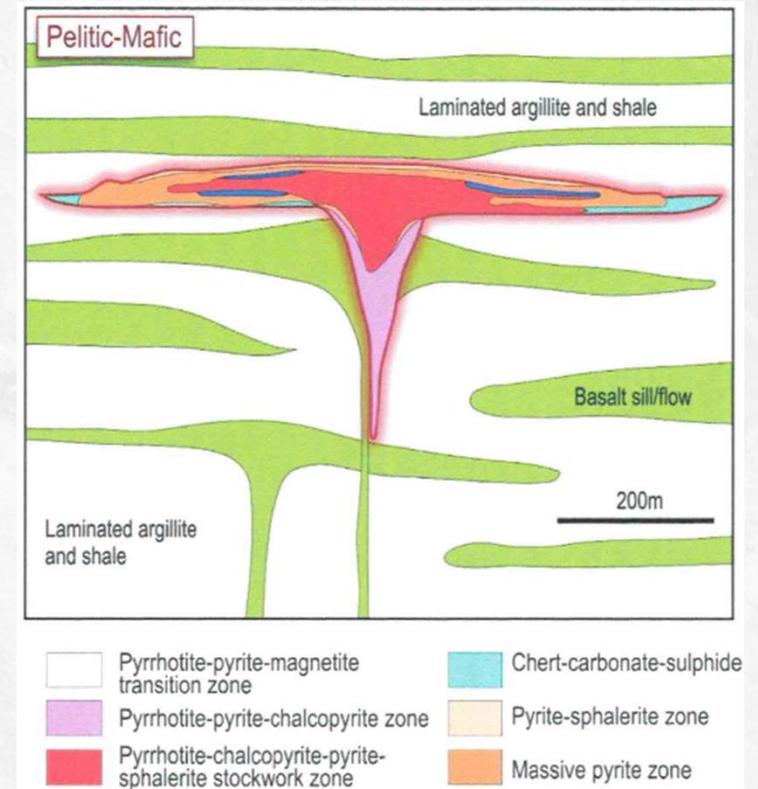
# Beshhi Type Cu/Au/Zn/Ag Deposits

## TOTTENHAM DEPOSITS

are considered to be Beshhi - Type sulphide Cu-Au-Zn deposits, modified by deformation. These are named after deposits on the southern Japanese island of Shikoku. The mineralisation is **typically copper-rich** with lesser zinc, silver, gold and cobalt within iron-sulphide (pyrite / pyrrhotite) bodies. The host rocks are commonly sedimentary rocks, and, as at Tottenham, these have been interlayered with basaltic rocks. Mineralised horizons tend to be **narrow but extensive**. The best grades are typically proximal to the source of the fluids that formed these bodies – possibly “black smokers” erupting from the sea floor, driven by underlying igneous activity. Alternatively, unconsolidated sediments may be impregnated by metal bearing solutions below the sea floor. Deposits range in size from <1Mt to 200Mt and **often occur in clusters** such as at Girilambone and Tottenham. Historically these deposits have founded substantial companies such as Sumitomo and Outokumpu.

Substantial Beshhi – Type Deposits include:

- |                         |                                    |
|-------------------------|------------------------------------|
| • Beshhi (Japan)        | 30Mt @ 2.5% Cu, 0.3% Zn, 0.2g/t Au |
| • Ducktown (USA)        | 163Mt @ 1.0% Cu, 0.9% Zn           |
| • Windy Craggy (Canada) | 198Mt @ 1.8% Cu, 0.2g/t Au         |
| • Britannia (Canada)    | 48Mt @ 1.9% Cu, 0.7% Zn, 0.7g/t Au |
| • Soucy (Canada)        | 4.3Mt @ 1.4% Cu, 1.1% Zn, 2g/t Au  |



Schematic layout of Beshhi – Type deposits.

# Tottenham Project

**Multiple prospects** have returned copper-gold intersections that require further testing. Majority of drilling has targeted shallow oxide deposits only. Significant results include:

## **Bogan River**

16m @ 6.94% Cu from 3m (TPRC043)

## **Ace**

2m @ 1.26% Cu from 25m (ACRC002)

## **Jimmy Woodser**

24m @ 0.73% Cu from 32m (TPRC057)

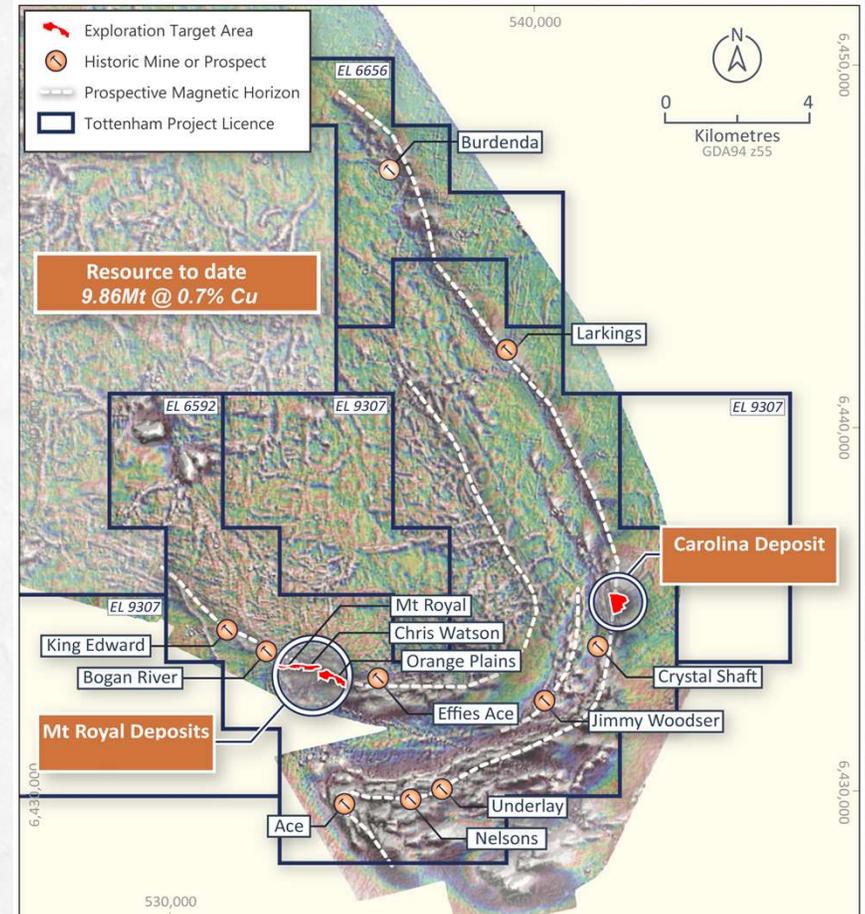
## **Underlay**

2m @ 3.7% Cu 0.8g/t Au from 35m (TPRC045)

## **Burdenda**

14m @ 0.31% Cu from 33m (TMAC003)

**Outside of the known resources** are multiple, poorly tested EM/soil/magnetic anomalies and 50km of near surface target horizon. Target horizons defined by banded quartz – magnetite rocks and copper mineralisation.



Tottenham area magnetic image and prospective horizons

# Tottenham Mineral Resource Estimate June 2022

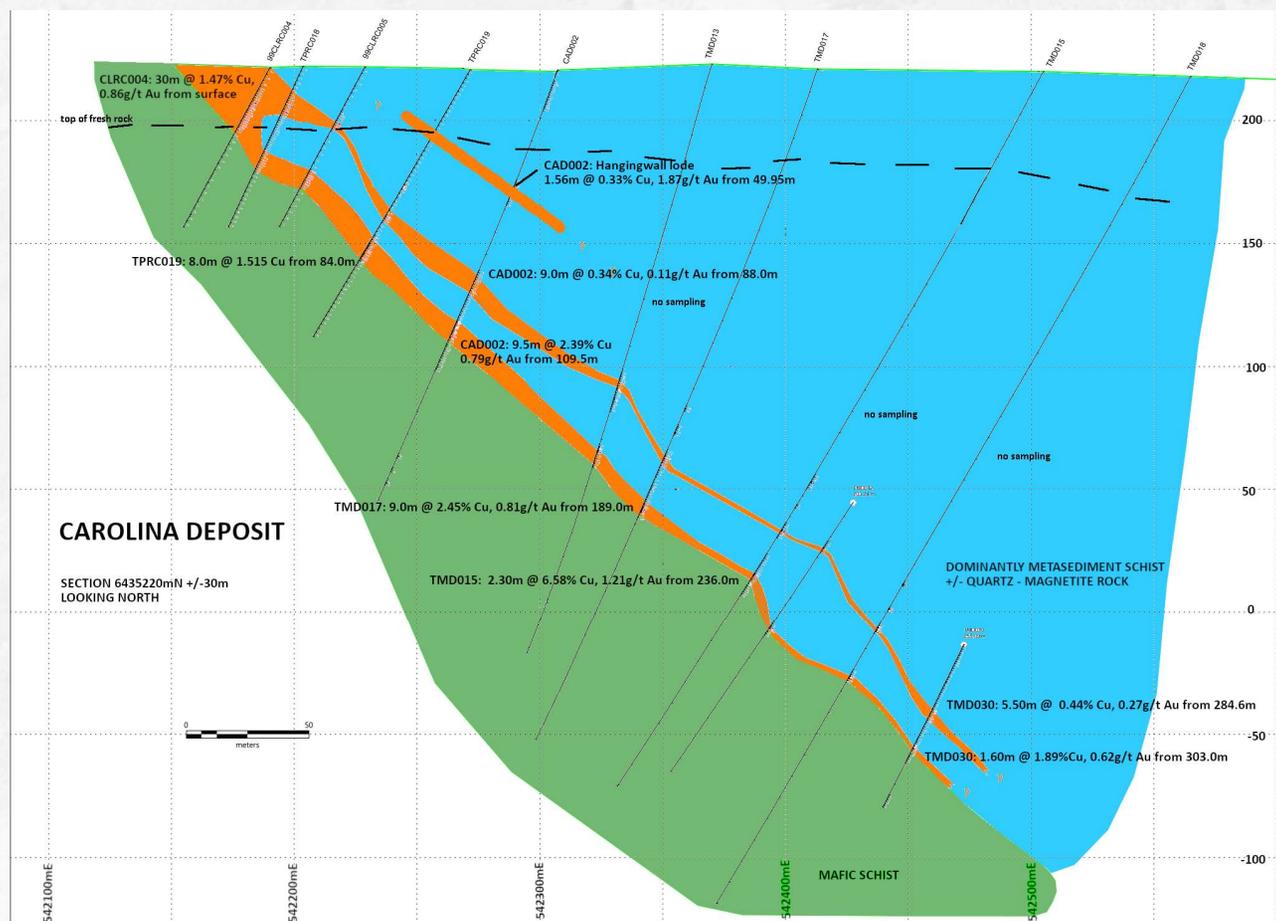
Deposit	Oxidation State	Tonnes (Mt)	Cu (%)	Au (g/t)	Ag (g/t)	Cu (kt)	Au (koz)	Ag (koz)
<b>Carolina</b>	Oxide	0.13	0.63	0.10	1.21	0.8	0.4	5.1
	Transitional	0.25	1.15	0.38	1.22	2.9	3.1	9.8
	Fresh	2.31	1.11	0.41	1.33	25.6	30.4	98.8
	<b>Subtotal</b>	<b>2.68</b>	<b>1.09</b>	<b>0.39</b>	<b>1.31</b>	<b>29.3</b>	<b>33.9</b>	<b>113.6</b>
<b>Mt Royal - Orange Plains</b>	Oxide	0.46	0.51	0.09	2.00	2.3	1.3	29.6
	Transitional	2.15	0.55	0.10	1.66	11.8	6.9	114.7
	Fresh	4.56	0.60	0.17	1.90	27.4	24.9	278.6
	<b>Subtotal</b>	<b>7.18</b>	<b>0.59</b>	<b>0.16</b>	<b>1.88</b>	<b>41.5</b>	<b>33.2</b>	<b>422.9</b>
<b>TOTAL</b>		<b>9.86</b>	<b>0.73</b>	<b>0.22</b>	<b>1.73</b>	<b>70.9</b>	<b>67.1</b>	<b>536.5</b>

*Tottenham, inferred mineral resource estimate above a 0.3% Cu cutoff.  
Note discrepancies may occur due to rounding. Figures rounded to the nearest 10,000 tonnes, 0.01% Cu grade, 0.01 g/t Au grade, 0.1g/t Ag grade, 100 copper tonnes, 100 ounces gold, and 100 ounces silver. Ounces are troy.*

# Carolina Deposit

Carolina is the **most consistently mineralised** deposit, containing **significant intersections** such as:

- 20m @ 2.1% Cu, 0.4g/t Au from 10m (CLRC004)
- 2.18m @ 11.2% Cu, 2.8g/t Au from 184.6m (TMD002)
- 1.35m @ 11.3% Cu, 2.1g/t Au from 236.9m (TMD015)
- 4.19m @ 5.7% Cu, 1.6g/t Au from 190.8m (TMD017)
- 9.50m @ 2.4% Cu, 0.8g/t Au from 109.5m (CAD002)



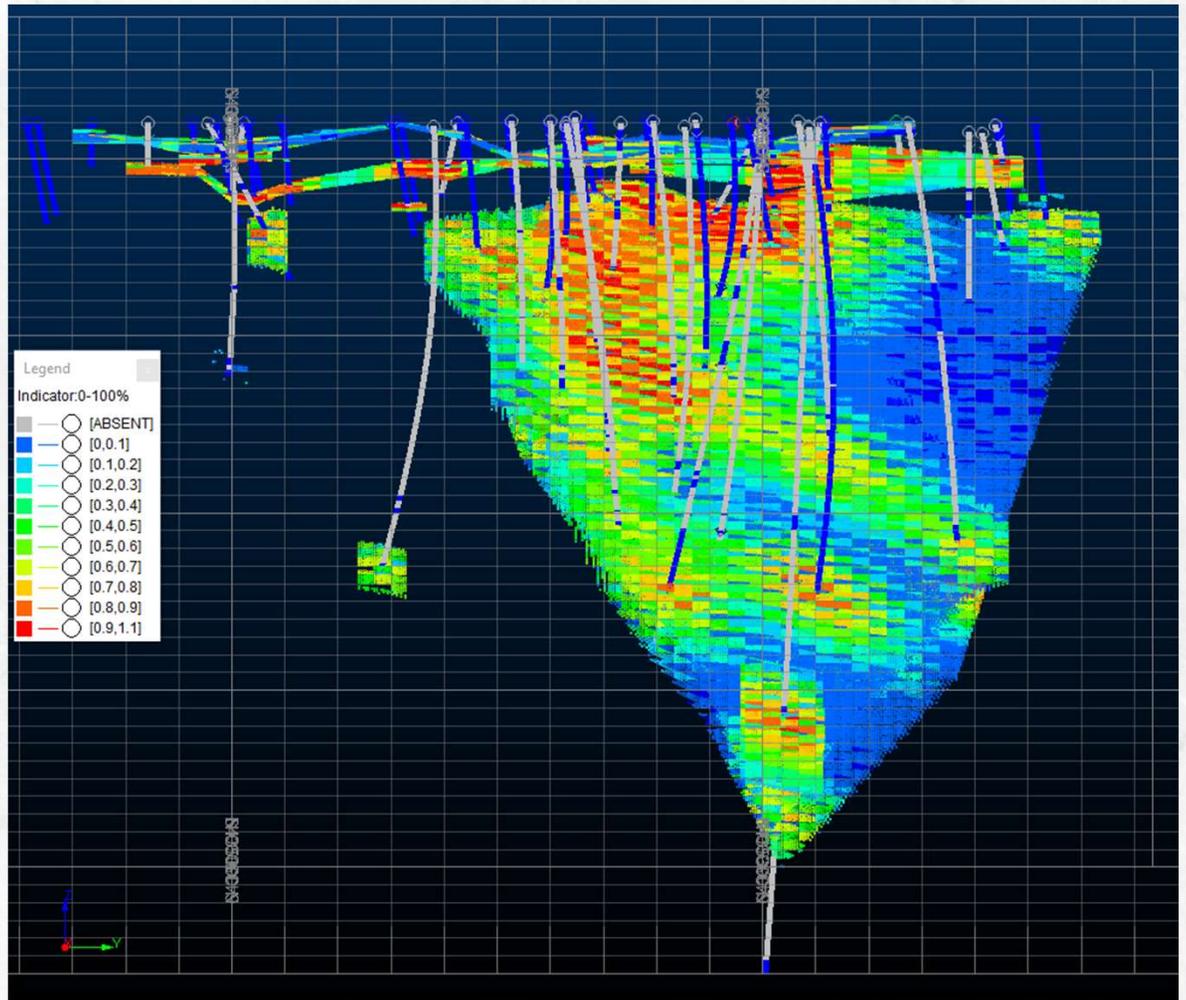
# Carolina Deposit

Carolina Resource at 0.3% Cu cut off:

**2.68Mt at 1.09% Cu, 0.39 g/t Au & 1 g/t Ag  
for 29kt Cu and 33koz Au & 109koz Ag**

Infill drilling required to the south.

Deposit remains **open to the north  
and at depth.**

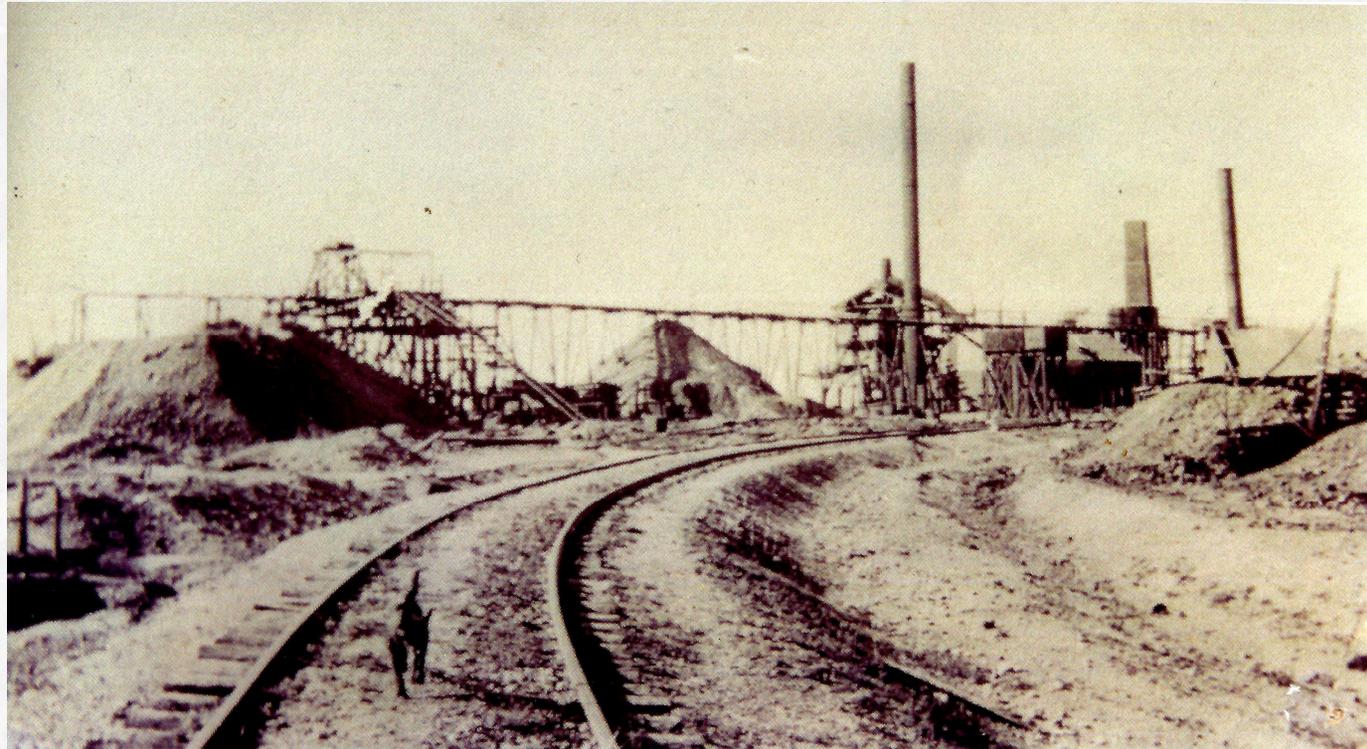


Visual validation of drill holes against model grade, long section looking west (Source: SnowdenOptiro)

## Mount Royal – Orange Plains Deposit

**Largest historic mine** in the field with workings to 106.5m, (350'). Site of the main historic smelter.

**55km railway extension** built from Tullamore to service this mine in 1916, remains in place.



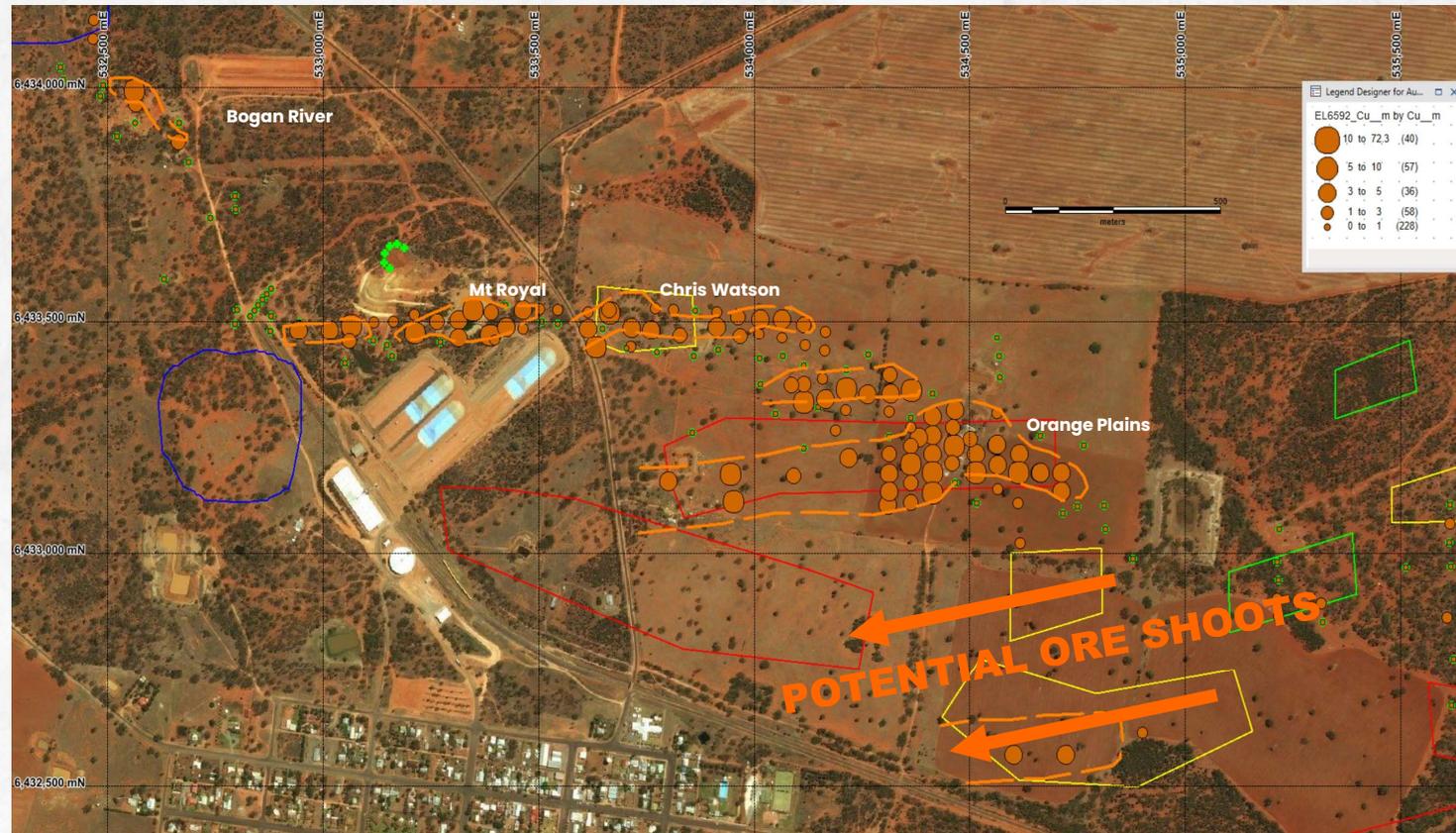
*Mt Royal Mine and Smelter c1919 (Tottenham Historical Society)*

# Mount Royal – Orange Plains Deposit

Mineralisation occurs as west plunging sulphide ribbons with **significant extension potential**.

EM and Drilling indicate **two** more potential sulphide ribbons.

Prime target for **additional resources**.

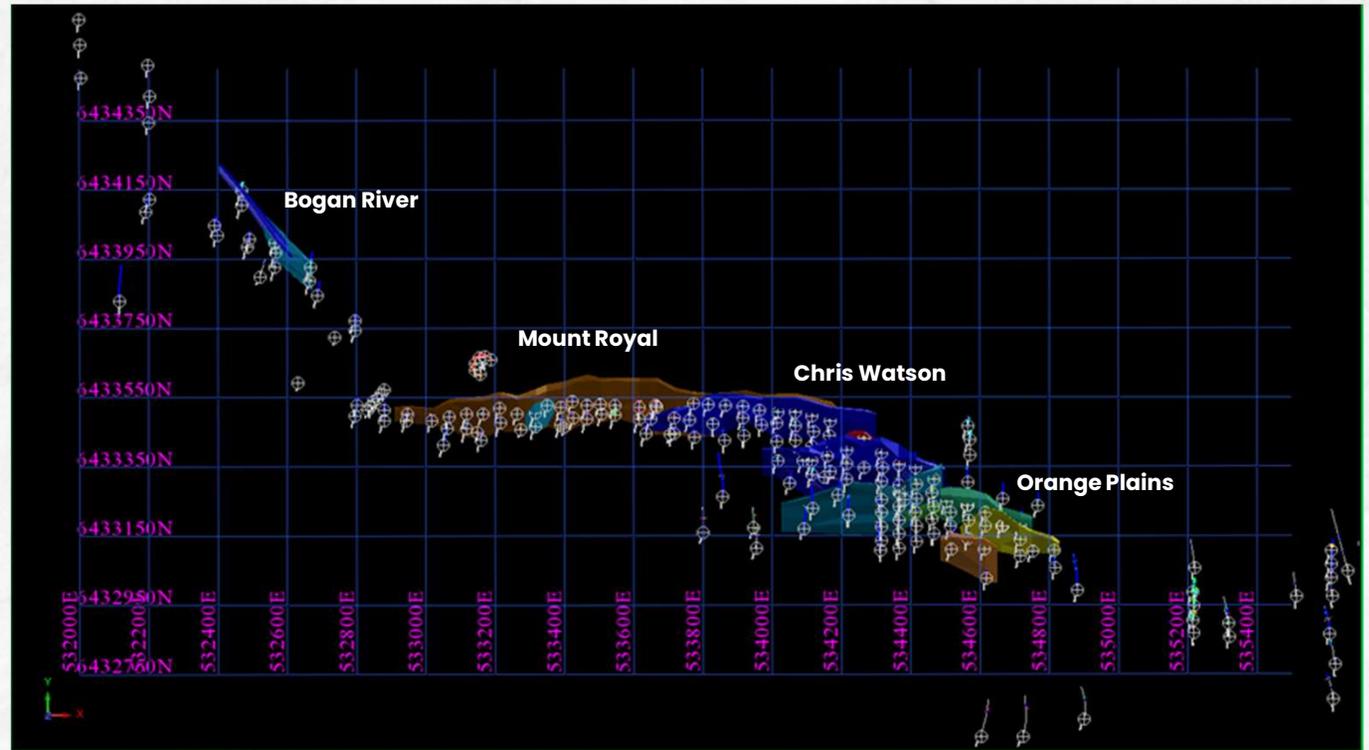


Tottenham area, %m Cu accumulation plot with 3% m Cu outline and modelled EM conductors

# Mount Royal – Orange Plains Deposit

JORC 2012 Compliant Resource  
at 0.3% Cu cut off

**7.18Mt at 0.58% Cu, 0.15g/t Au  
& 2g/t Ag for 41.6kt Cu and  
34koz Au & 402koz Ag.**



Tottenham area, drilling and resource domains (Source: SnowdenOptiro)

# Bogan River Mine

Bogan River is a **high grade**, historic mine, 2km north of Tottenham.

Mine developed to **70m** vertical.

Area faulted continuation of Mount Royal Deposit.

Mineralisation disrupted by N-S faulting. All drilling north directed, hence faulting poorly located.

Much of the historic drilling **too shallow** to adequately test mineralisation.

Best result

**16m @ 6.94% Cu from 3m (TPRC043)**

Drilling to define **additional resources**.



# Jimmy Woodser

Jimmy Woodser is a **historic mine**, 6km east of Tottenham. **Abundant** azurite, malachite, tenorite, pyrite, chalcopyrite, bornite on mine dumps. Malachite in former railway cutting to east of North Shaft.

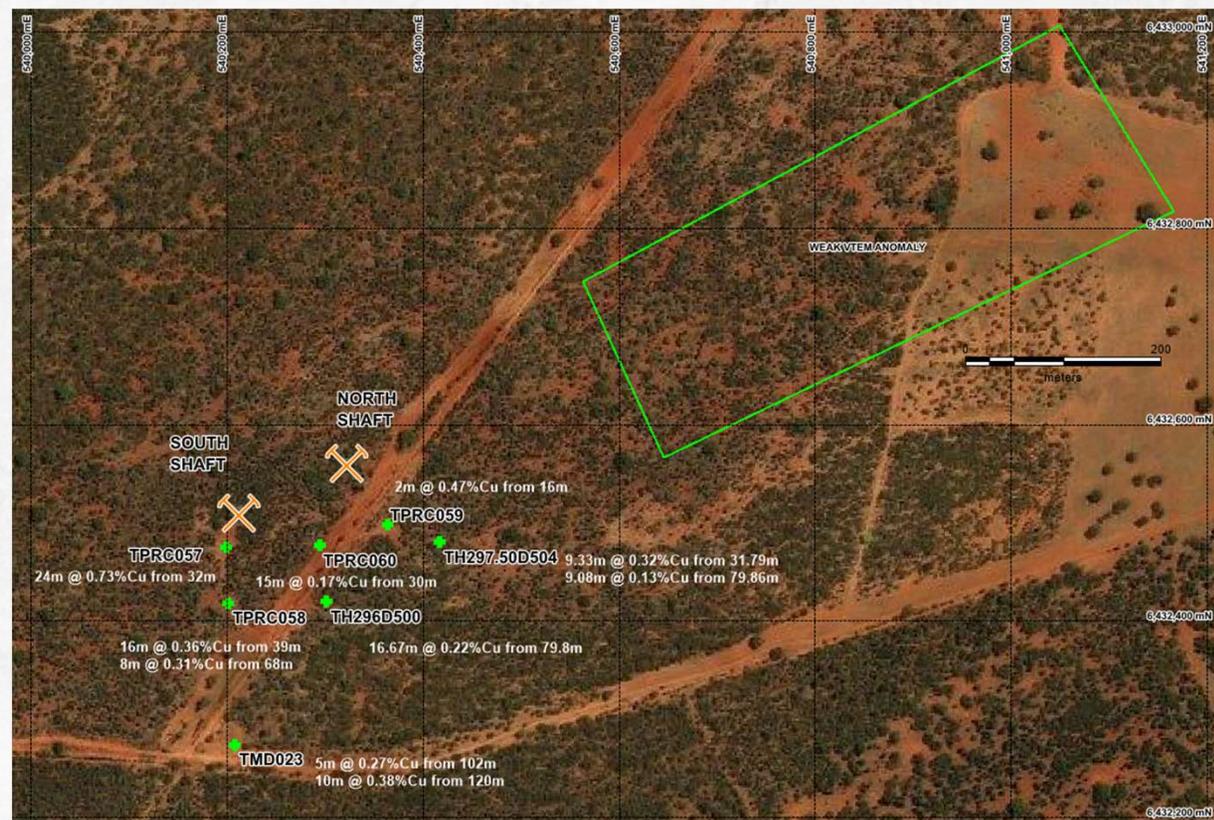
Broad low grade intercepts in **all 7 previous drill holes**. Mineralisation as disseminated sulphides in mafic schist. Best result

**24m @ 0.73% Cu from 32m (TPRC057)**

**VTEM anomaly** down plunge of old workings and drill intercepts. **Untested by drilling.**

VTEM anomaly coincident with 1970 IP anomaly.

Recent land clearing has exposed banded magnetite rocks and gossan up dip of VTEM anomaly.



# Ace Mine

The Ace Mine is a **historic mine** 3km south of Tottenham.

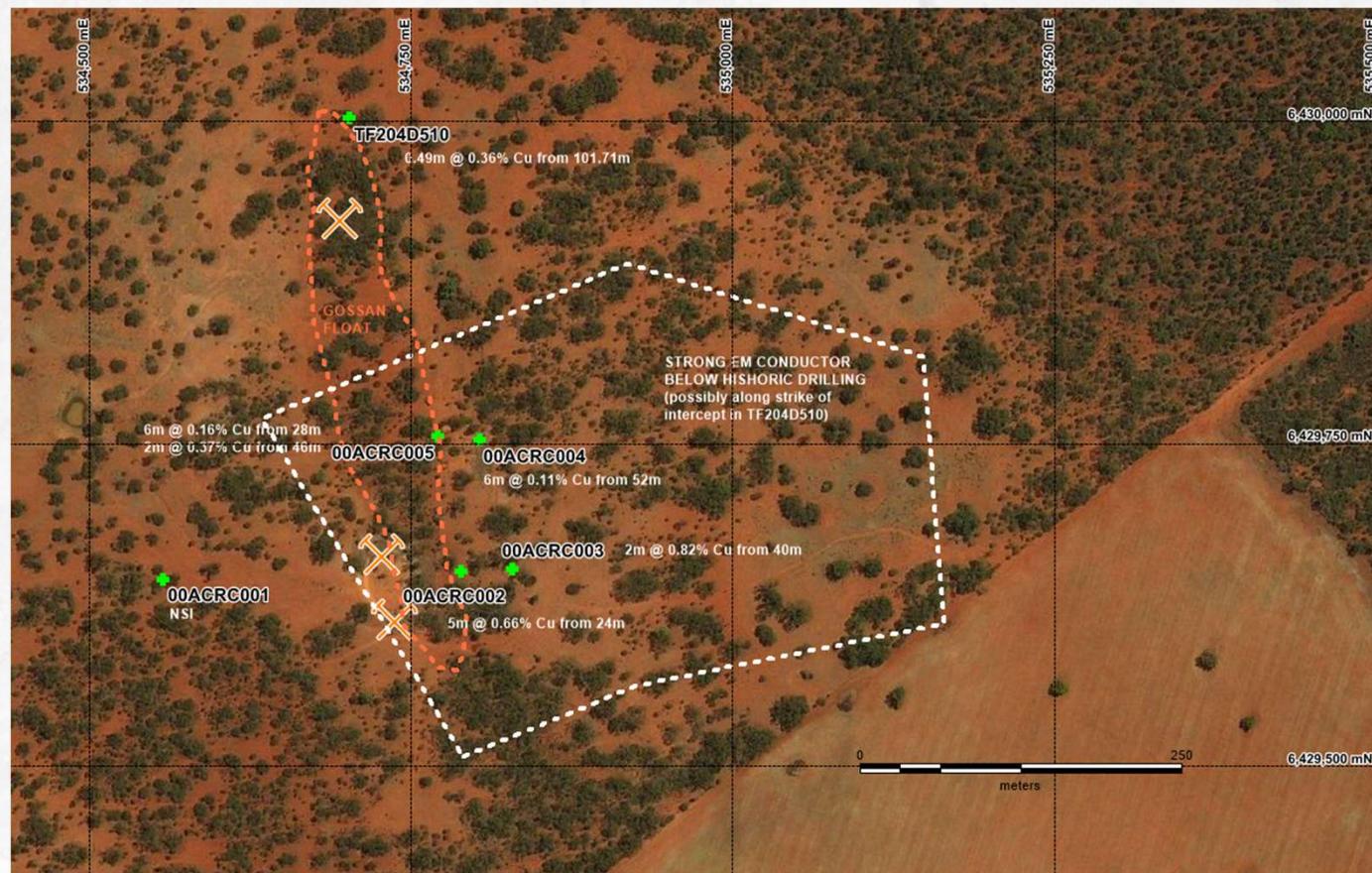
Workings developed to **98m**.

No drilling since **shallow RC in 2000**, before EM surveys.

Historic RC tested immediately about old workings for oxide material.

**Strong untested EM conductor** below previous drilling.

**Priority diamond drill target.**



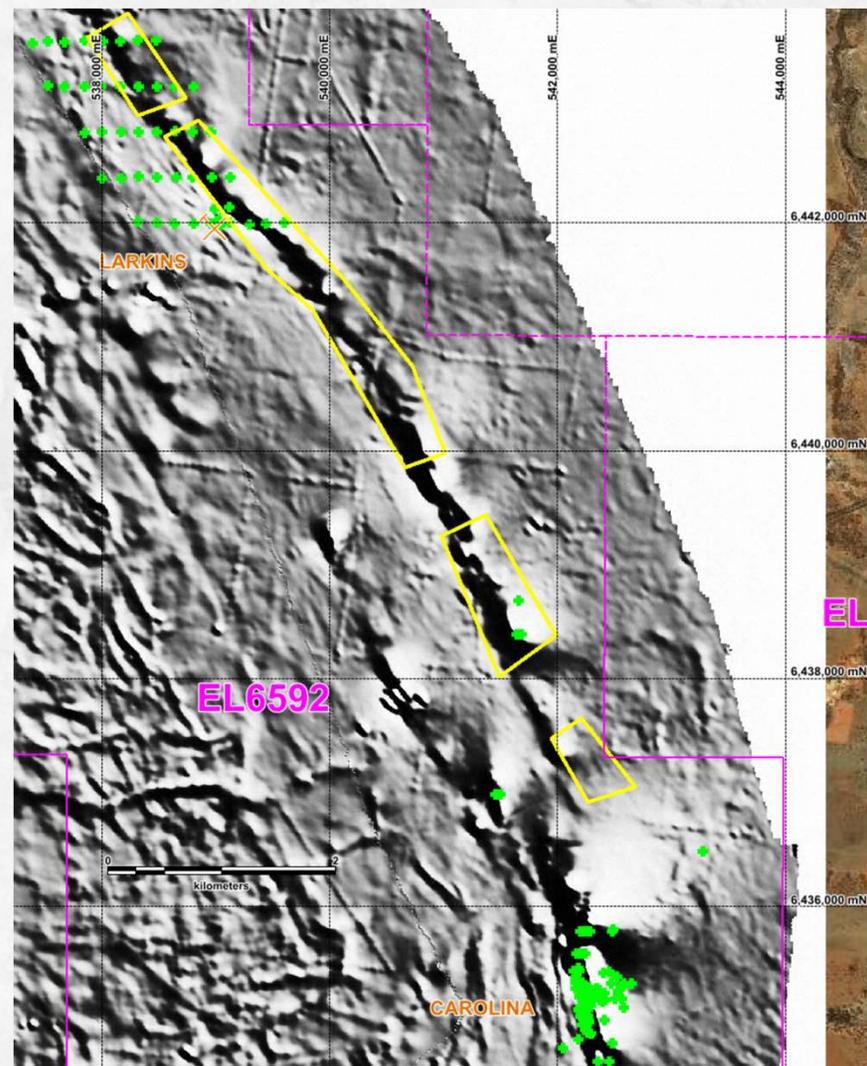
# Carolina to Larkins

Continuous **10km** long zone of coincident magnetic and airborne VTEM anomalies to the north of the Carolina Deposit.

Area largely under cover.

Very **sparsely tested** with deepest hole only 138m. Drilling problems forced this hole to be abandoned before reaching target depth.

*Total magnetic intensity background with interpreted VTEM anomalies (yellow polygons). Green crosses represent previous drill holes.*



# Burdenda

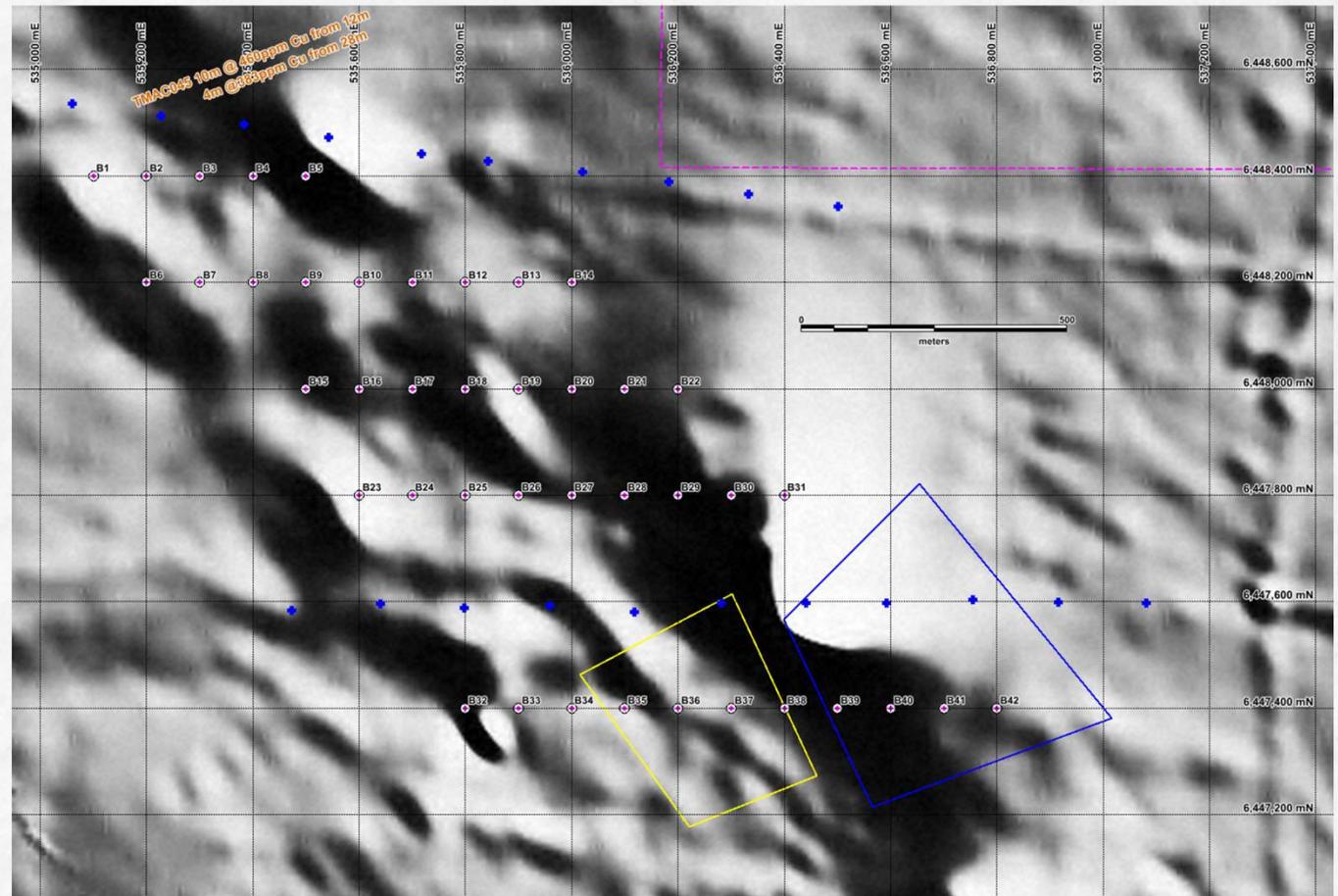
## Anomalous Geochemistry

Magnetic and electromagnetic (EM) **anomalies present** on EL6656 under cover.

Area along **trend from Carolina and Larkins** prospects.

Previous hole TMAC045 returned **elevated copper and zinc** with 10m @ 460ppm Cu from 12m & 4m @ 383ppm Cu from 28m.

**Drilling delayed by flooding**



Reduced to pole magnetics, previous Mincor aircore drilling (blue crosses), airborne EM anomalies and proposed Locksley aircore. (MGA94 zone 55)

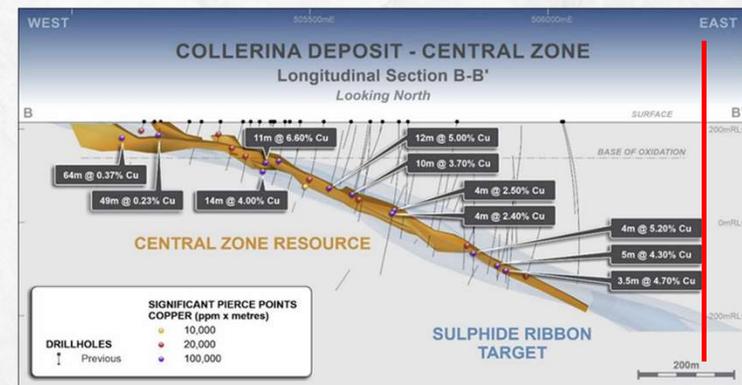
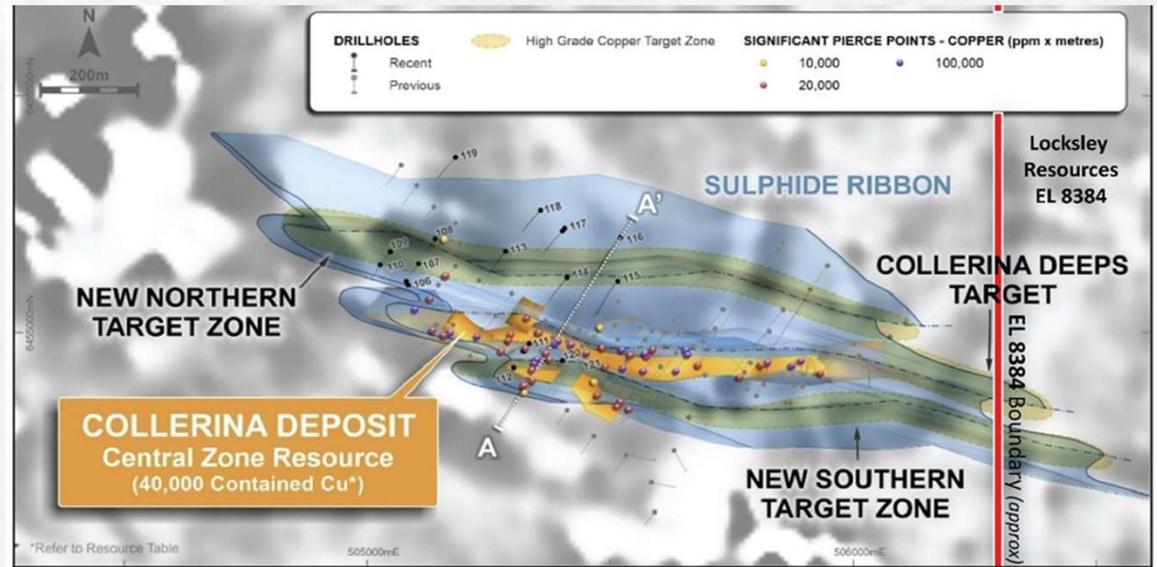
# CZ Deposit Depth Extensions

The CZ Deposit (*Helix*) lies just to the west of Locksley's EL8384, **35km NW of Tottenham** and has a current announced resource of

**2.03 Mt @ 2.0% Cu, 0.3g/t Au**

(HLX ASX release 11 June 2019, Interim Maiden Resource at Collerina Copper Project)

The currently defined deposit is trending directly onto EL8384 and is projected to cross onto EL8384 at a depth of approximately **450m below surface**.



Plan view of the CZ Deposit, showing the current resource (orange) within the new sulphide ribbon (blue) interpretation. EL8384 boundary has been superimposed on the image. Image from ASX:HLX 24<sup>th</sup> March 2020.  
Schematic long section of the Collerina Central Zone Resource. Image from ASX:HLX 25<sup>th</sup> May 2020

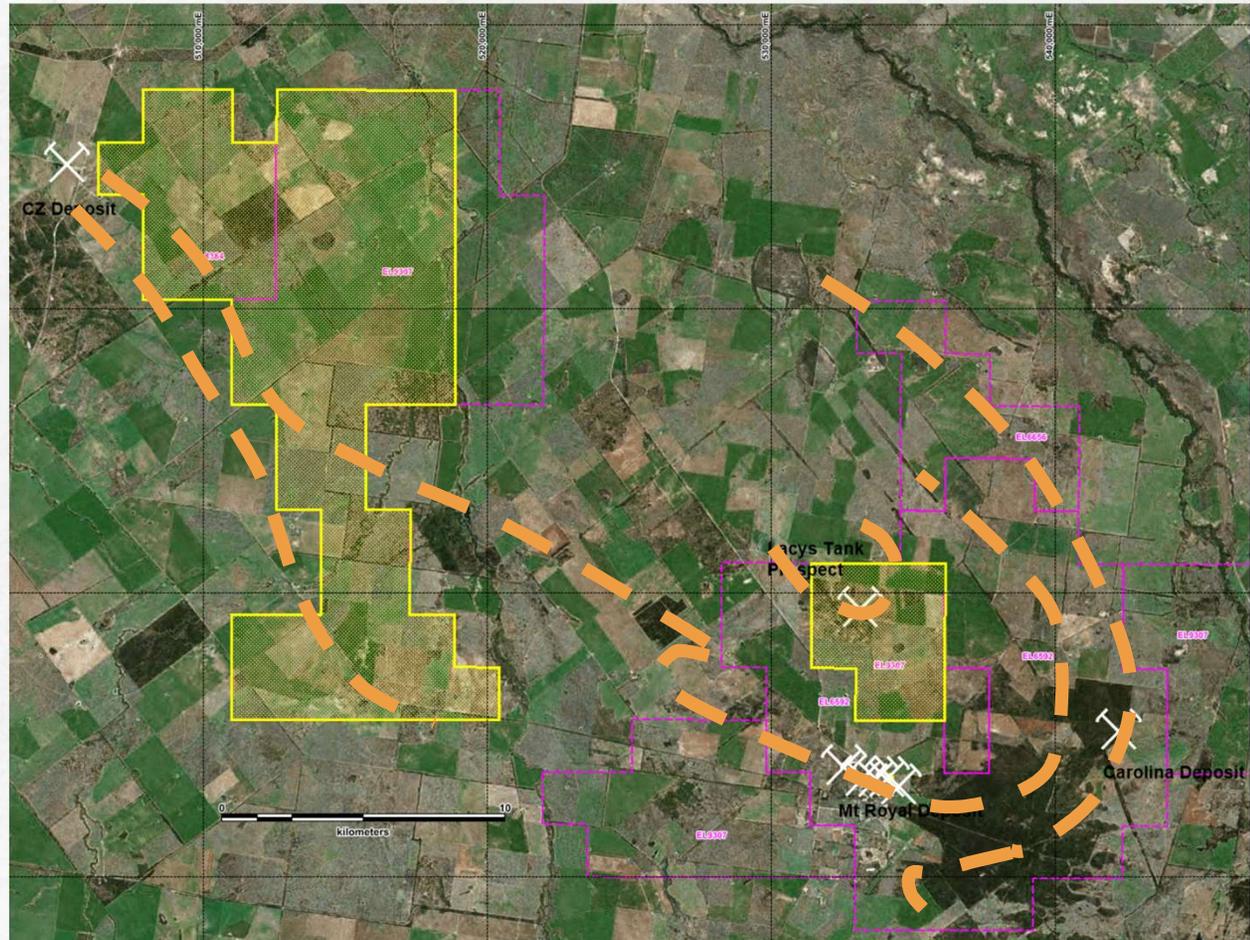
# AIRBORNE EM SURVEY

Airborne electromagnetic, (EM), surveys have been highly successful in locating sulphide copper deposits in the region such as Tritton and Constellation.

Prospective trend between Tottenham and CZ Deposit obscured by recent cover.

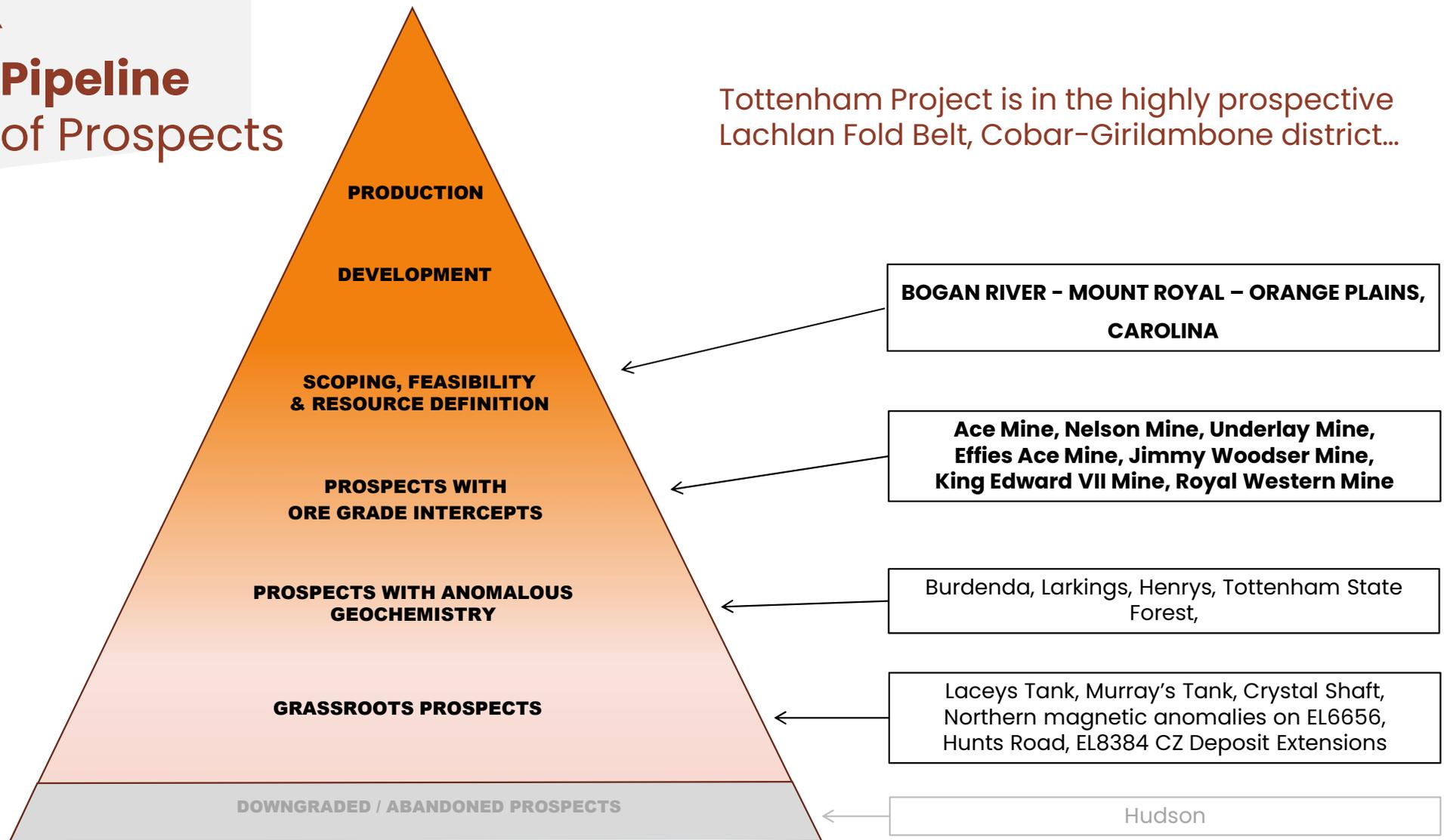
Surveys can detect sulphide bodies up to 300m below surface.

A helicopter borne EM and magnetic survey is scheduled for June 2022 covering areas **not previously surveyed**.



Area of June 2022 helicopter EM survey and prospective horizons

# Pipeline of Prospects



Tottenham Project is in the highly prospective Lachlan Fold Belt, Cobar-Girilambone district..

## Contact

# LOCKSLEY RESOURCES LIMITED

ACN 629 672 144

**Mr Stephen Woodham**  
Managing Director  
Locksley Resources Limited  
M – +61 417 293 449

E – [woodhams@locksleyresources.com.au](mailto:woodhams@locksleyresources.com.au)  
W – <https://locksleyresources.com.au/>



# APPENDIX A – Regional Producers and Deposits

## Locksley Resources <sup>1</sup>

- [www.locksleyresources.com.au](http://www.locksleyresources.com.au)
- ASX announcement – 1 April 2022

## CSA Mine <sup>2</sup>

- [www.glencore.com.au](http://www.glencore.com.au)
- 2021 Reserves and Resources Report

## PEAK GOLD OPERATIONS <sup>3</sup>

- [www.aureliametals.com.au](http://www.aureliametals.com.au)
- 2021 Annual Report

## HERA / FEDERATION GOLD, BASE METALS <sup>4</sup>

- [www.aureliametals.com.au](http://www.aureliametals.com.au)
- ASX announcement – 23 July 2021

## WONAWINTA SILVER <sup>5</sup>

- [www.manukaresources.com.au](http://www.manukaresources.com.au)
- Resources Report in 2021 Annual Report

## PEEL MINING LTD <sup>6</sup>

- [www.peelmining.com.au](http://www.peelmining.com.au)
- ASX announcement – 29 November 2021 & 2021 Annual Report

## MT BOPPY GOLD <sup>7</sup>

- [www.manukaresources.com.au](http://www.manukaresources.com.au)
- Resources Report in 2021 Annual Report

## CZ copper deposit <sup>8</sup>

- [www.helixresources.com.au](http://www.helixresources.com.au)
- ASX announcement – 2 September 2021

## MINERAL HILL GOLD, BASE METALS <sup>9</sup>

- [www.kingstonresources.com.au](http://www.kingstonresources.com.au)
- ASX announcement – 18 November 2021

## TRITTON COPPER OPERATIONS <sup>10</sup>

- [www.aerisresources.com.au](http://www.aerisresources.com.au)
- ASX announcements – 3 August 2021, 1 December 2021 & 16 December 2021 & 2021 Annual Report

## HOMEVILLE Ni-Co DEPOSIT <sup>11</sup>

- [www.helixresources.com.au](http://www.helixresources.com.au)
- ASX announcement – 2 September 2021

## TOMINGLEY GOLD <sup>12</sup>

- [www.alkane.com.au](http://www.alkane.com.au)
- ASX announcement – 15 July 2021

## NORTH PARKES GOLD, COPPER <sup>13</sup>

- [www.northparkes.com.au](http://www.northparkes.com.au)

## Historic ASX Announcements

- ❖ Exploration Update ASX: LKY 1 April 2022
- ❖ 9.8Mt RESOURCE AT TOTTENHAM ASX: LKY 1 April 2022
- ❖ QUARTERLY ACTIVITIES REPORT AND APPENDIX 5B ASX: LKY 31 January 2022
- ❖ EXPLORATION UPDATE ASX: LKY 19 January 2022
- ❖ TOTTENHAM DRILLING RESULTS SUPPORT RESOURCE DEFINITION ASX: LKY 25 November 2021
- ❖ GRANT OF EL9307 EXPLORATION UPDATE ASX: LKY 26 October 2021
- ❖ RC DRILLING COMMENCES AT THE TOTTENHAM COPPER PROJECT & EXPLORATION UPDATE ASX: LKY 30 September 2021
- ❖ LOCKSLEY RESOURCES EXPLORATION UPDATE DRILLING COMMENCES AT TOTTENHAM ASX: LKY 24 August 2021
- ❖ LOCKSLEY RESOURCES PROSPECTUS 6 July 2021
- ❖ TOTTENHAM JV MINERAL RESOURCES – ANNUAL UPDATE ASX: MCR 10 September 2018
- ❖ TOTTENHAM JV EXPLORATION DRILLING UNDERWAY ASX: MCR 9 March 2018
- ❖ TOTTENHAM COPPER JOINT VENTURE ADVANCES ASX: MCR 27 November 2017
- ❖ HIGH GRADE DRILLING RESULTS AT TOTTENHAM COPPER PROJECT, NSW ASX: MCR 21 September 2017
- ❖ TOTTENHAM JV DRILLING UNDERWAY ASX: MCR 3 July 2017
- ❖ TOTTENHAM EARN-IN AND JOINT VENTURE ASX: MCR 17 February 2016
- ❖ EXPLORATION UPDATE: COPPER AND GOLD AT TOTTENHAM ASX: MCR 31 March 2011
- ❖ HIGH-GRADE COPPER-GOLD INTERSECTED IN EARLY DRILLING AT TOTTENHAM, NSW ASX: MCR 17 February 2011
- ❖ MINCOR INTERSECTS WIDESPREAD COPPER MINERALISATION AT TOTTENHAM PROJECT, NSW ASX: MCR 9 October 2007