



# Defining gold and copper Resources in NE QLD

*Brisbane Resources Industry Lunch*

7 September 2021

Presented by

**Peter Hwang**

*Managing Director*





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# Corporate snapshot

Share price<sup>1</sup>

**\$0.013**

Shares  
on issue<sup>1,2</sup>

**1,381m**

Market Cap<sup>1</sup>

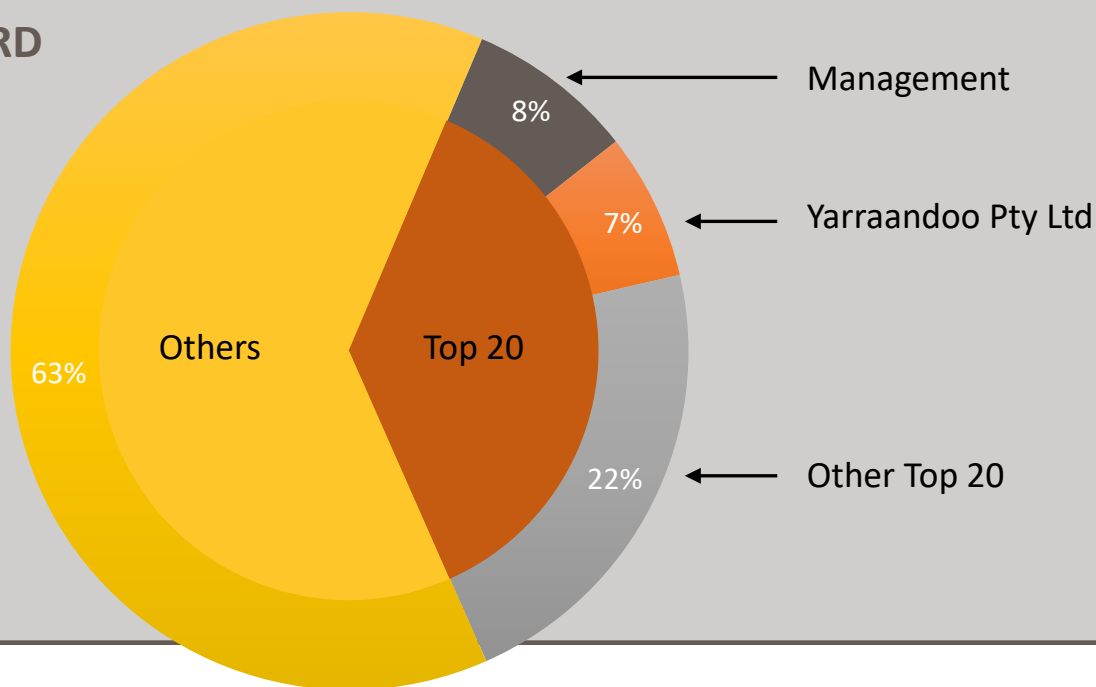
**\$18m**

Cash<sup>1,3</sup>

**\$0.84m**

1. As at 6 September 2021
2. 86,419,683 unlisted Options expiring 31/12/2021 @ \$0.006
3. nil debt

SPQ ORD



## Board

Peter Hwang	(Managing director)
Carlos Fernicola	(Chairman)
Simon Pooley	(Non-Exec Director)

## Other management

Carlos Fernicola	(Company Secretary)
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# Project portfolio



## Greenvale Project (SPQ 100%)

849 km<sup>2</sup> (1,449 km<sup>2</sup>)

**Gold, Copper-Gold,  
Nickel-Copper-Cobalt-  
PGE, Zinc**

- Feasibility Study on high grade gold deposit  
**1.73Mt @ 2.2 g/t Au for 122,000 ounces<sup>1</sup>**
- Definitive drilling program on a large copper deposit
- New and substantial magmatic sulphide Ni-Cu-PGE project



## Nicholson Project (SPQ 100%)

300 km<sup>2</sup>

**Lead-Zinc-Silver (Copper,  
Cobalt), Uranium**

- 5 Tier 1 equivalent Mt Isa / McArthur River style targets
- 2019 drilling confirmed widespread SEDEX mineralisation system
- Highest priority targets yet to be drilled
- 1 Battery Metals project
- 1 Uranium project

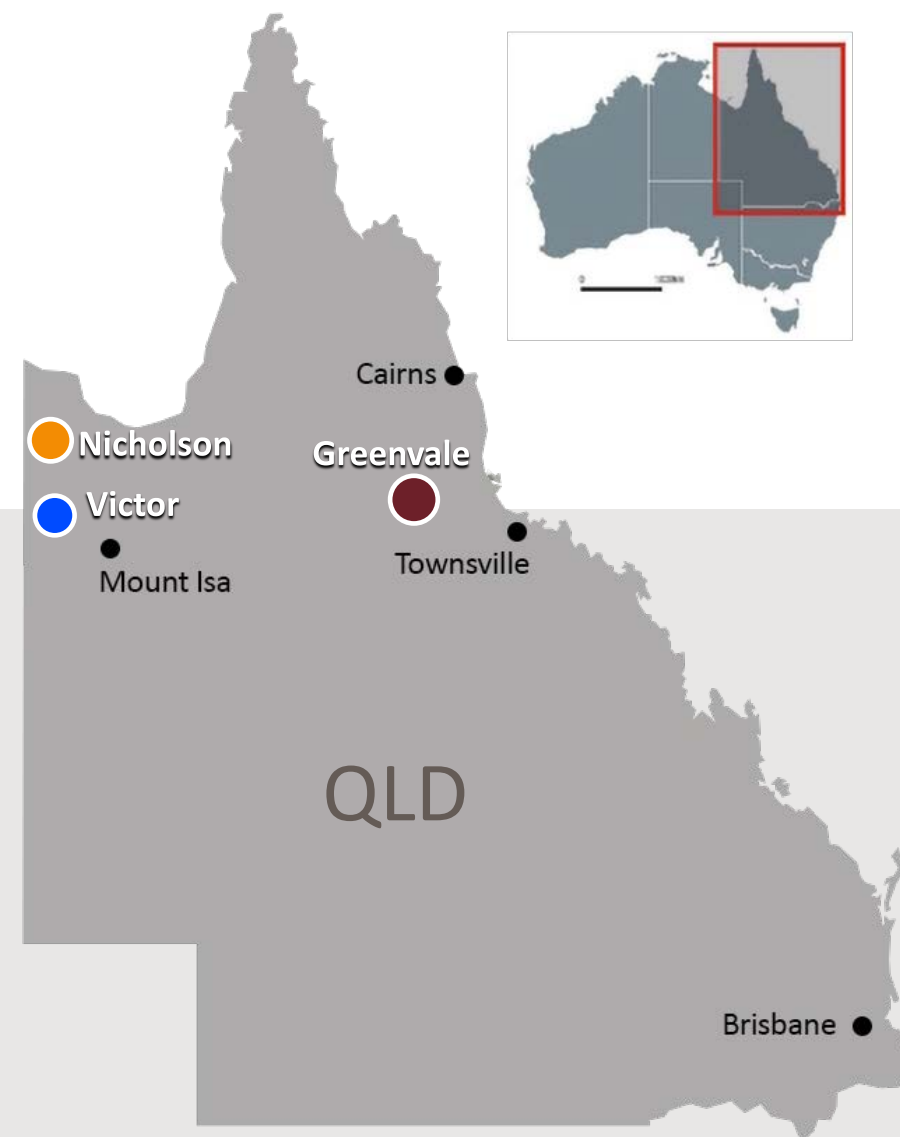


## Victor Project (SPQ 100%)

438 km<sup>2</sup>

**Lead-Zinc-Silver  
(Copper)**

- Several Tier 1 potential Mt Isa / McArthur River style targets
- Minimal historic exploration



1: Refer ASX announcement dated 22 March 2021

# Operational snapshot

## Defining gold and copper resources at Greenvale

- towards a potential centralised gold and copper mining hub

Steam Engine Gold Deposit 1.73Mt @ 2.2 g/t Au (122,000 ounces Au) <sup>2</sup>	Bottletree Copper Deposit 292m @ 0.22% Cu <sup>4</sup> incl 18.7m @ 1.12% Cu	Cockie Creek Copper-Gold Deposit 13Mt @ 0.42% Cu <sup>5</sup> (54,600t Cu)	Wyandotte Copper Deposit Exploration Target <sup>6</sup> : 0.4Mt @ 2.2% Cu (8,800t Cu) - 1.0Mt @ 1.9% Cu (19,000t Cu)	Voisey's Bay style Ni-Cu-PGE Dido, Big Mag, Phantom Creek
<b>Scoping Study (Base Case)<sup>3</sup>:</b> <ul style="list-style-type: none"> <li>AUD\$2,200/oz assumed gold price</li> <li>70,000oz mined</li> <li><b>\$24.2M cash flow (post tax)</b></li> <li><b>242% IRR (post tax)</b></li> <li><b>\$5.1M CAPEX</b> (pre-production and closure)</li> <li>Feasibility Study</li> </ul>	<b>Large deposit scale IP target:</b> <ul style="list-style-type: none"> <li>2018 hole intersected edge of intense IP chargeability anomaly (292m @ 0.22% Cu)</li> <li>Cu grades vary consistently with chargeability response</li> <li><b>2021 drilling about to commence:</b> <ul style="list-style-type: none"> <li><b>targeting core of chargeability anomaly</b></li> </ul> </li> </ul>	<b>Large IP chargeability anomaly beneath copper Resource:</b> <ul style="list-style-type: none"> <li>Associated Au + Mo</li> <li>Mineral Resource modelling underway</li> <li>Potential porphyry Cu-Au system</li> </ul>	<b>High grade copper deposit:</b> <ul style="list-style-type: none"> <li>Current campaign drilling</li> <li>Mineral Resource Estimate to be established</li> <li>No exploration since 1975</li> </ul>	<b>Voisey's Bay style Ni-Cu-PGE:</b> <ul style="list-style-type: none"> <li>Highly prospective for Voisey's Bay-style Ni-Cu-PGE systems</li> <li>Fertile troctolite intrusions identified by Anglo but not followed up or inadequately followed up</li> </ul>

2: JORC Measured, Indicated and Inferred; Refer ASX announcement dated 22 March 2021

3: Refer ASX announcement dated 27 April 2021

4: Refer ASX announcement dated 25 October 2018

5: JORC (2004) Inferred; Refer ASX announcement dated 27 March 2013

6: Refer ASX announcement dated 15 June 2021



# Greenvale Strategic Direction

**Centralised  
gold and copper mining (and  
Processing) hub**

## **Near-term production**

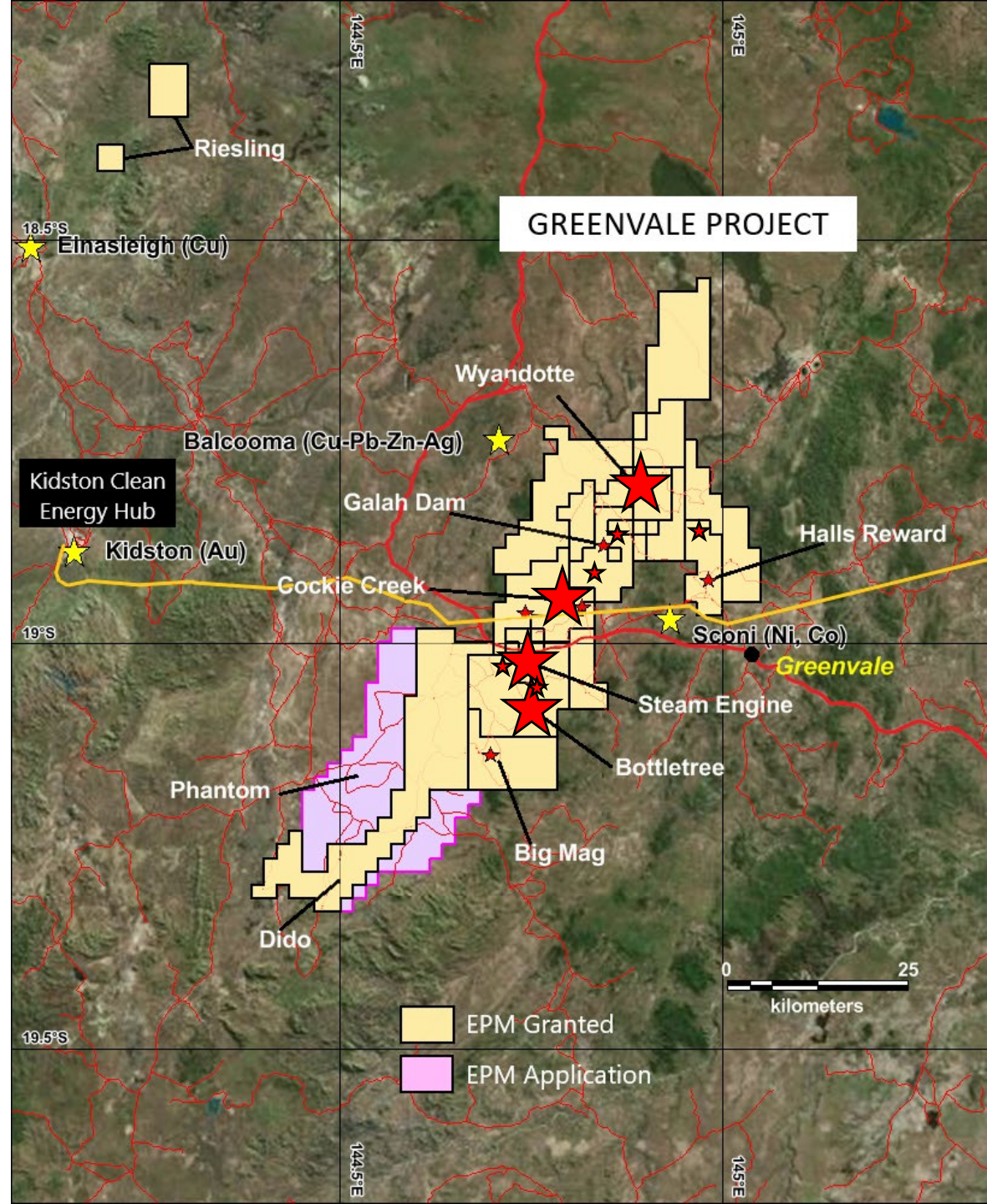
Steam Engine

## **Major Infrastructure**

- 275kV GENEX-Kidston Connection Project
- Gregory Highway

## **Assessment Pipeline**

- Steam Engine
- Wyandotte
- Cockie Creek
- numerous copper and gold prospects



# 13,000m Drilling Program at Greenvale

## ■ GOLD (Steam Engine) –

- Pathway to near-term production
- Progressing through Feasibility study
- Expanding Mineral Resource
- Geophysics

## ■ COPPER (Bottletree) –

- 2,300m 2-stage diamond drilling program imminent
- Targeting high grade copper core
- Following up 2018 hole 292m @ 0.22% Cu

## ■ COPPER (Wyandotte) –

- 2,115m 2-stage drilling program
- Establish maiden Mineral Resource Estimate

## ■ COPPER (Cockie Ck) –

- Mineral Resource Estimation (JORC 2012)
- Planning drilling program for end 2021/early 2022
- Targeting large chargeability anomaly beneath current resource





Eastern Ridge Lode

**Steam Engine** – Progressing towards development  
1.73Mt @ 2.2 g/t Au (122,000 oz)

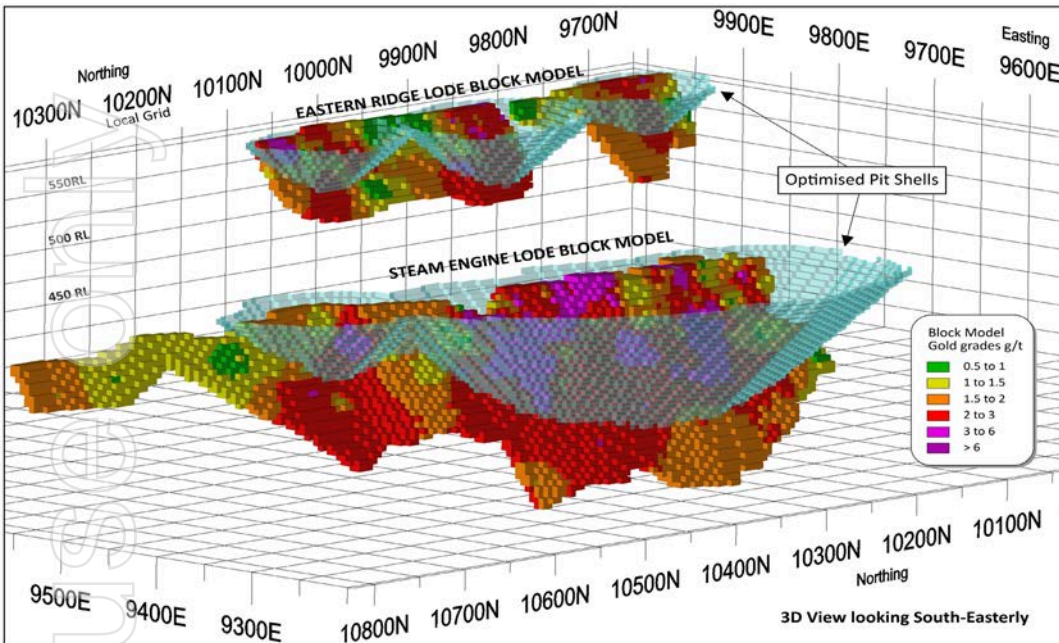
Steam Engine Lode

Personal use only





# Steam Engine – Highly positive Scoping Study



Parameter	Breakeven Value
Gold Price	AUD\$1,709 /oz (USD\$1,299 @ 0.76 AUD/USD)
Gold Grade	1.79 g/t
Gold Recovery	60%
Steam Engine Lode Ore	

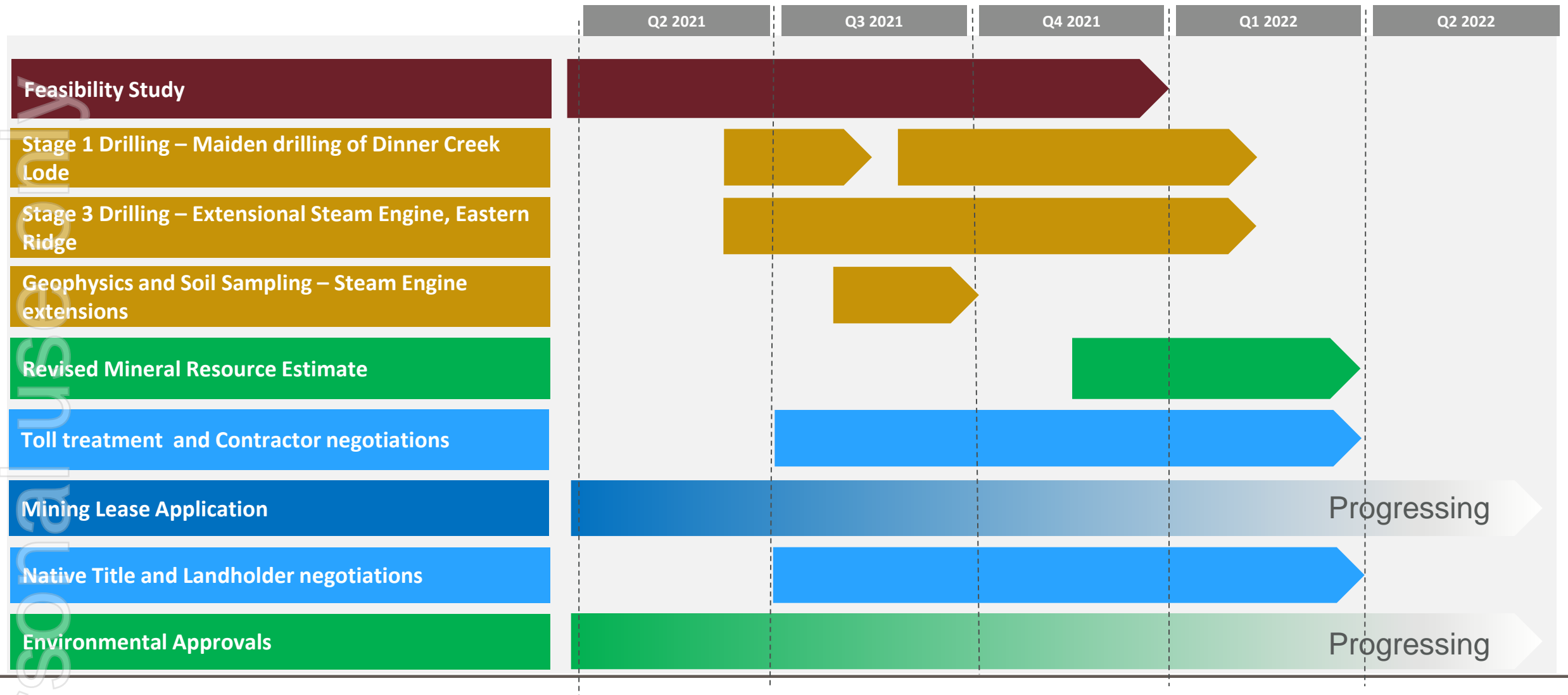
Parameter	Base Case @ AUD\$2,200 /oz	Upside Case @ AUD\$2,500 /oz
<b>Financial Summary</b>		
Overall Cash Flow (post-tax)	AUD\$24.2M	AUD\$41.0M
NPV <sub>7%</sub> (post-tax)	AUD\$21.2M	AUD\$35.9M
Internal Rate of Return (IRR) (post-tax)	242%	410%
All-in Sustaining Costs (AISC) <sup>1</sup>	AUD\$1,673 /oz	AUD\$1,725 /oz
Payback Period	11 months	9 months
<b>Funding</b>		
CAPEX (Pre-Production and Closure)	AUD\$5.1M	AUD\$5.1M
Funding Required <sup>2</sup>	AUD\$10.0M	AUD\$9.0M
Return on Capital (post-tax)	475%	806%
<b>Physical Outputs</b>		
Life of Mine (LOM) (Construction to Closure)	~2.5 years	~2.9 years
Total Ore	1.131 Mt	1.305 Mt
Ore Grade	2.31 g/t	2.24 g/t
Overall Gold Recovery	84%	84%
Gold Produced and Sold	70,000 oz	79,000 oz

Refer ASX announcement dated 27 April 2021

1: AISC calculated in accordance with the 2018 World Gold Council Updated Guidance Note.

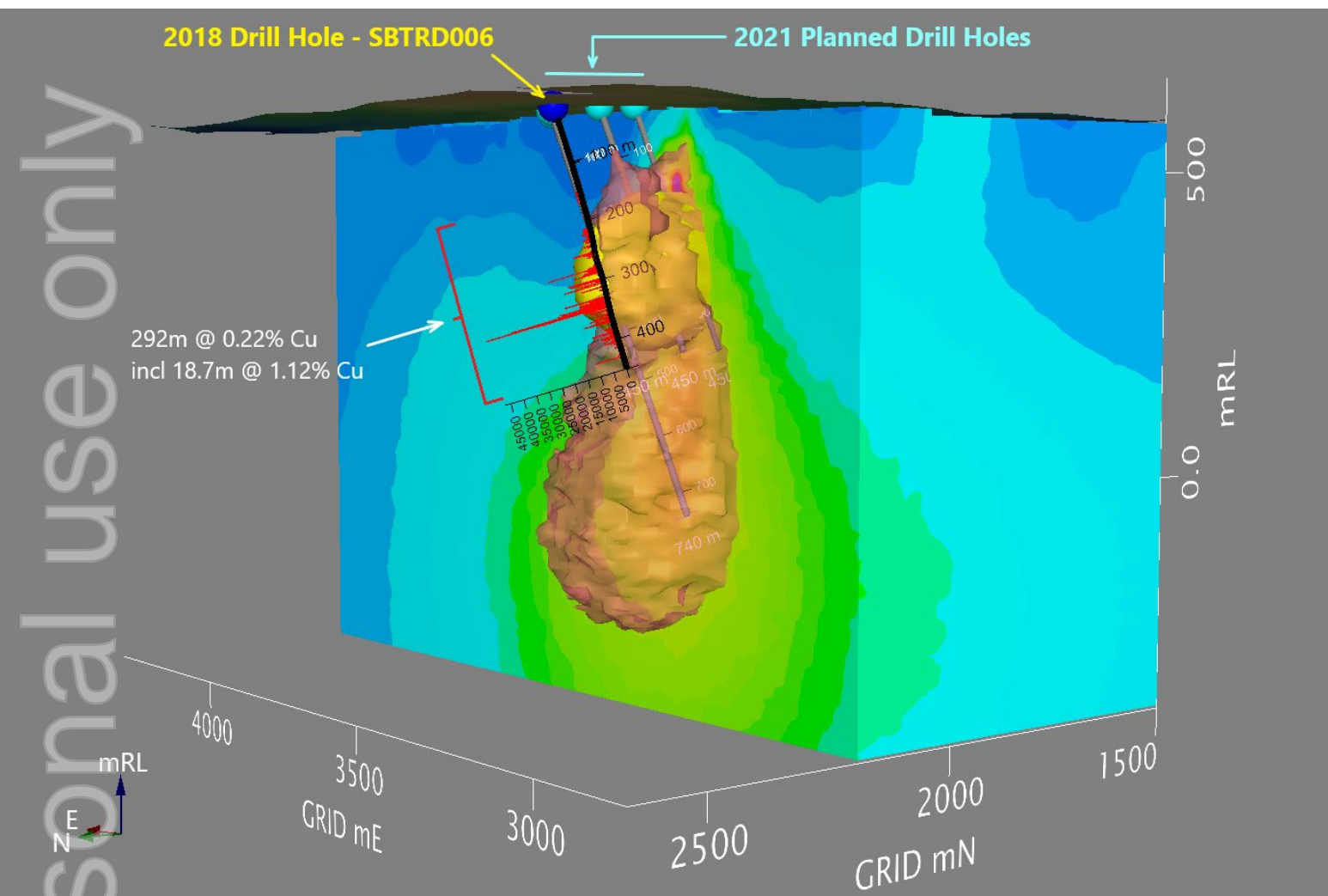
2: Includes pre-production CAPEX plus operating losses until profits are generated

# Steam Engine – Current program timeline





# Bottletree – Large-scale copper-mineralised system

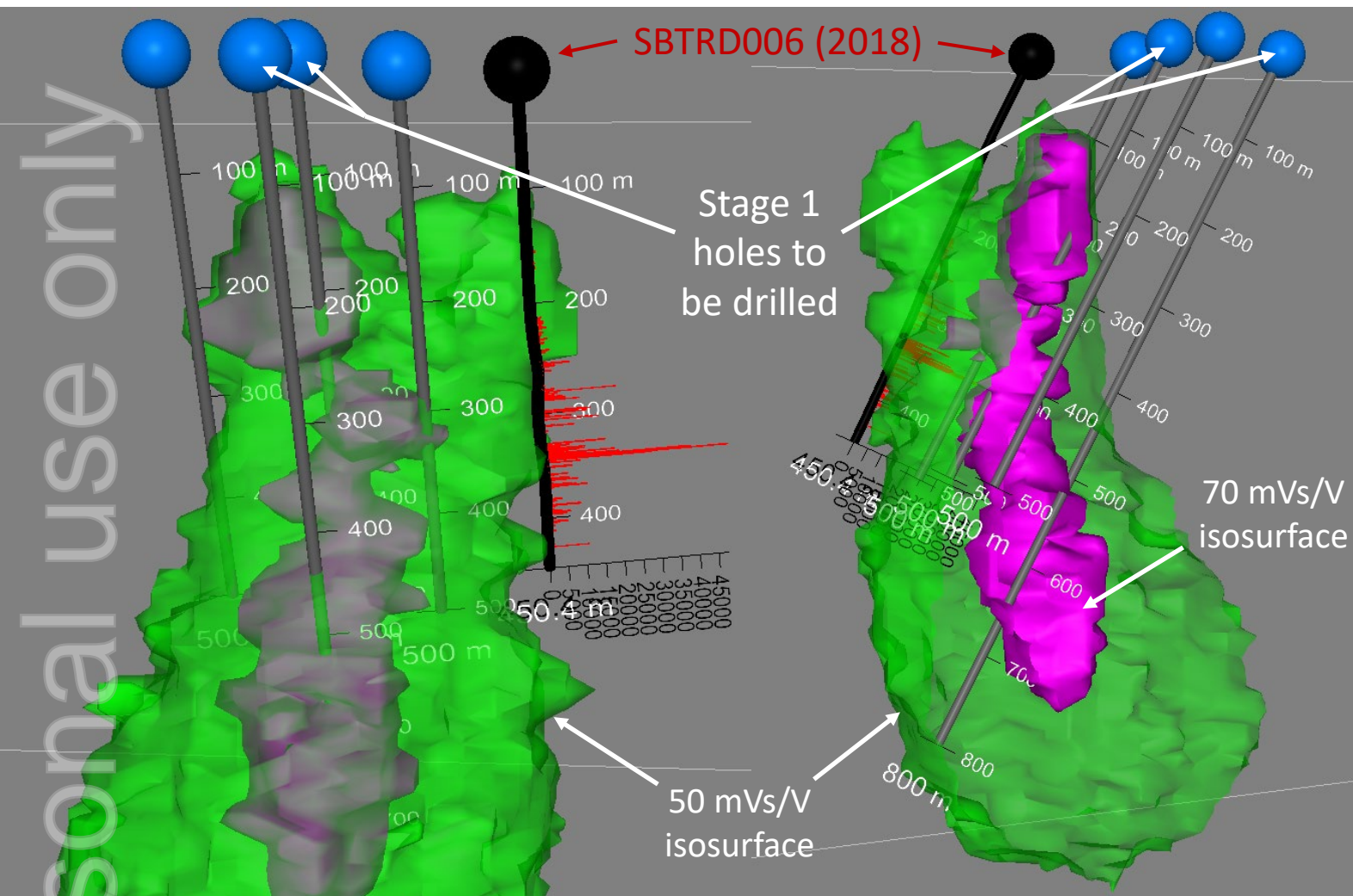


- Large-scale copper mineralisation identified - 2018
  - High grade copper (18.7m @ 1.12% Cu)<sup>7</sup>
  - Broad Cu mineralisation (292m @ 0.22% Cu)
- Copper grades correlate well with chargeability response
- Last drill hole (2018) intersected northern edge of mineralisation

Drilling imminent to potentially deliver “discovery hole”

7: Refer ASX announcement dated 25 October 2018

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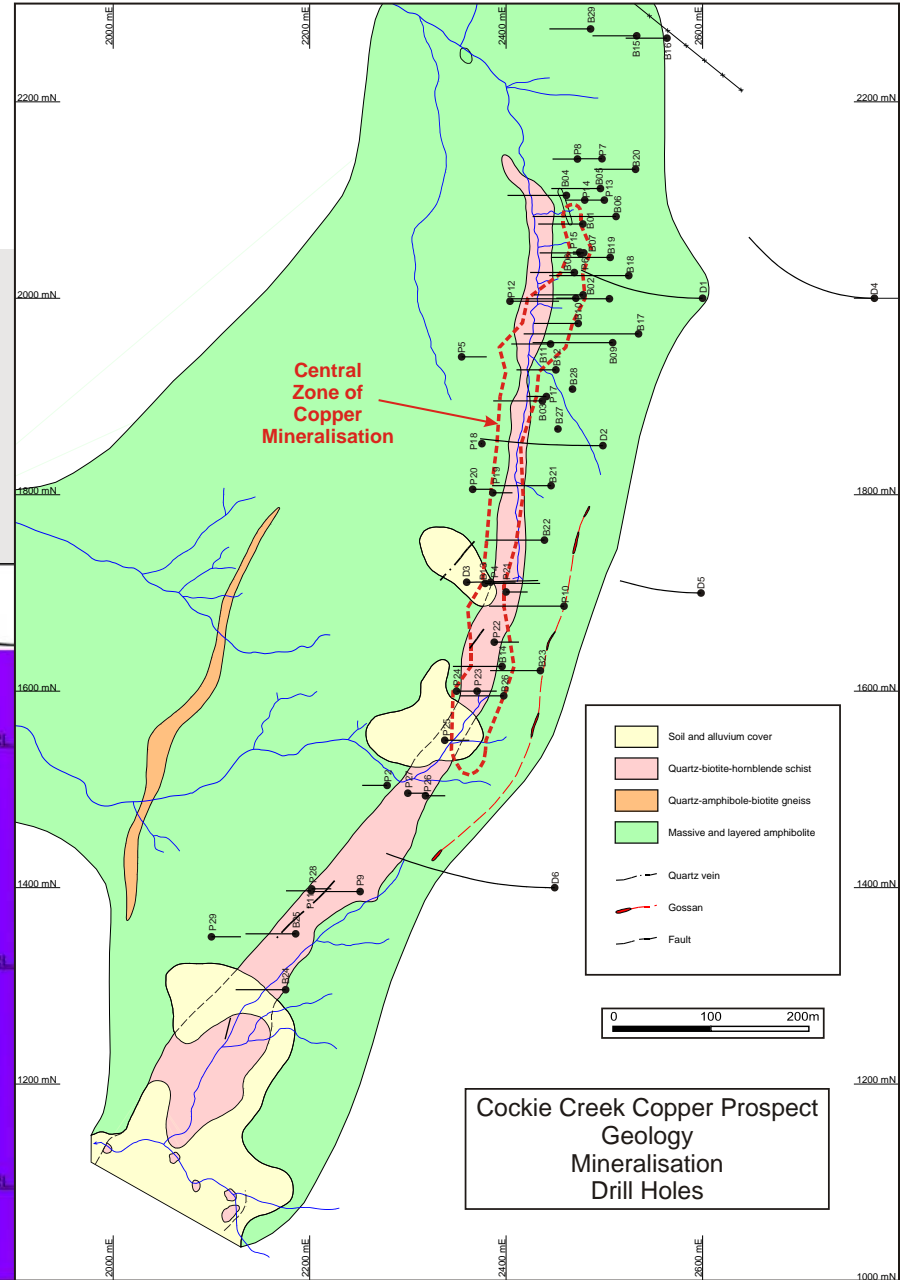
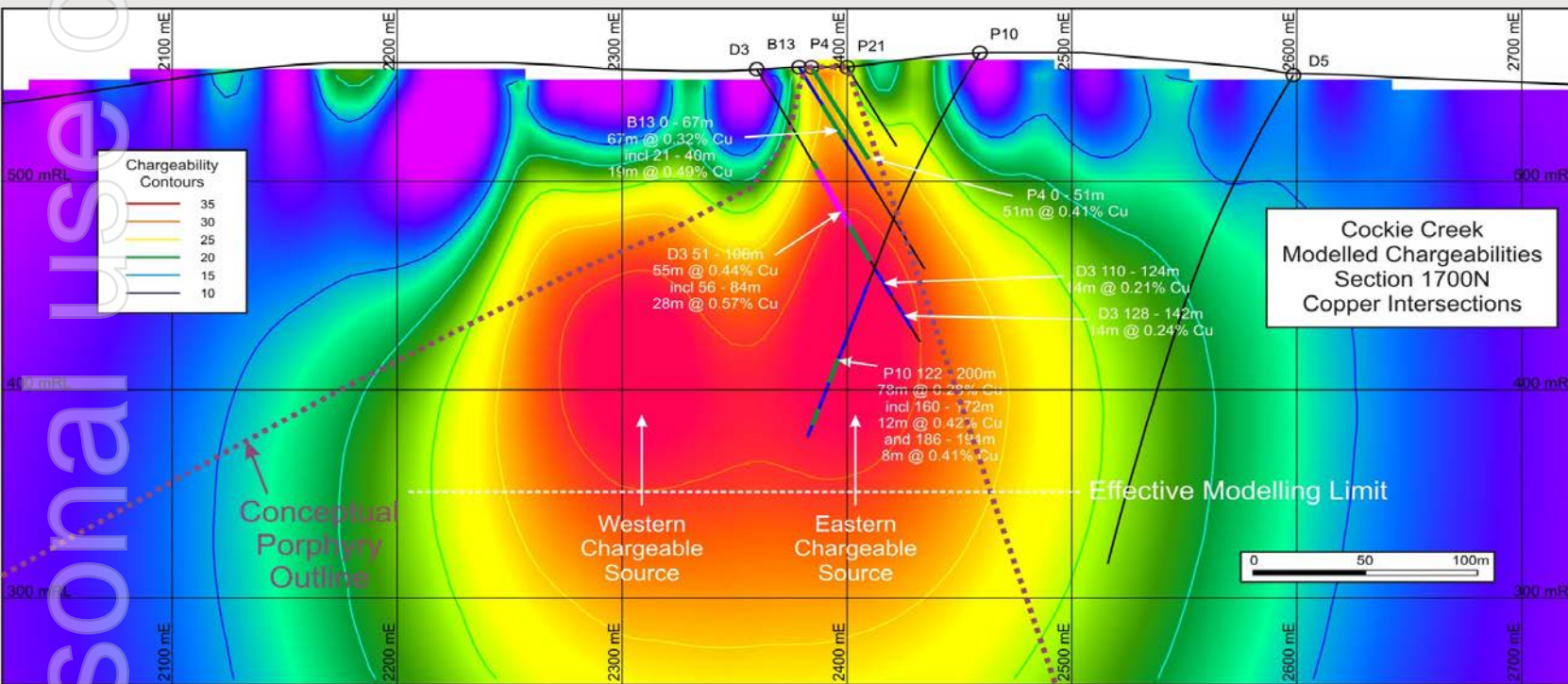
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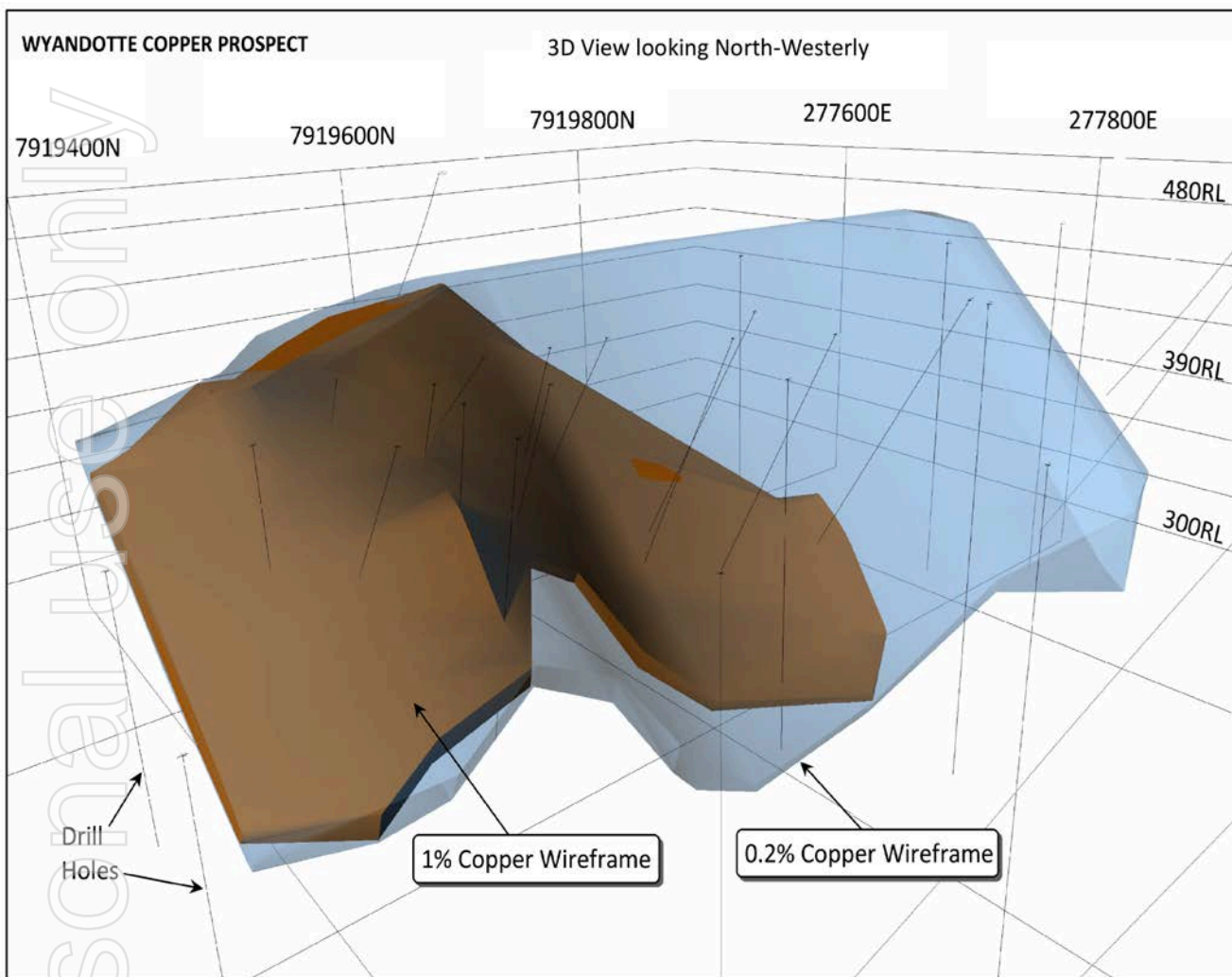


# Cockie Creek – Cu-Au

- Potential for a significant porphyry Cu-Au deposit
- Current Mineral Resource estimate: **13Mt @ 0.42% Cu<sup>9</sup>** (JORC 2004), based on strike length of 1.2kms and down to approx. 300m depth
- Significant Au mineralisation with the copper
- Two large, intense IP chargeability targets at depth beneath the defined mineralisation



# Wyandotte – High grade copper deposit



## Exploration Target<sup>8</sup>

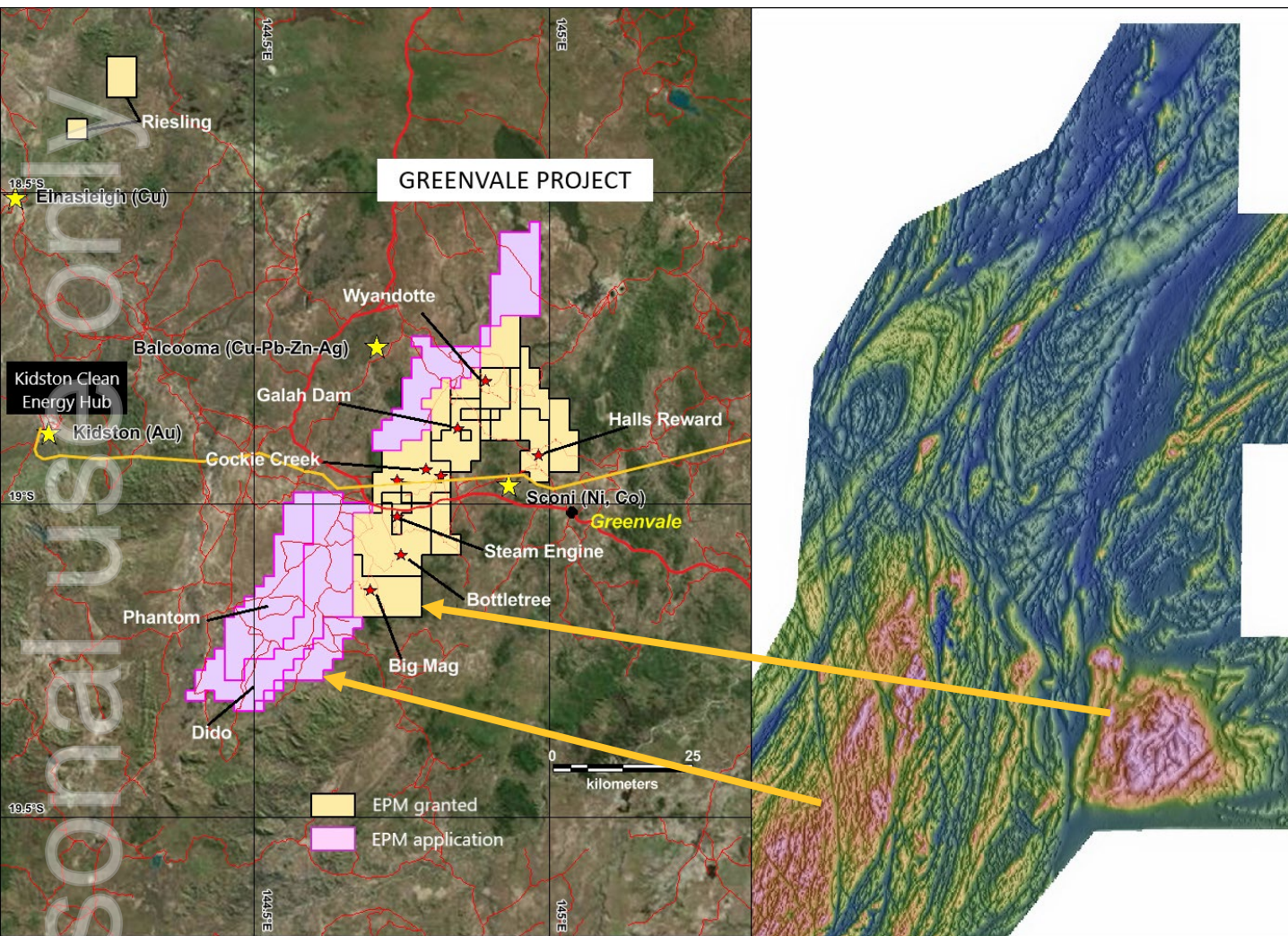
Tonnes	Specific Gravity	Cu %	Cu tonnes	Range
400,000	2.7	2.2%	8,800	Lower
1,000,000	3.0	1.9%	19,000	Upper

- To be drilled in current drilling campaign
- Maiden Mineral Resource estimate will be established
- No exploration conducted since 1975
- Potential for down-dip extension of mineralisation
- Ground geophysical surveys to identify larger source of mineralisation

8: Refer ASX announcement dated 15 June 2021



# Dido, Phantom & Big Mag – Ni-Cu-Co-PGE



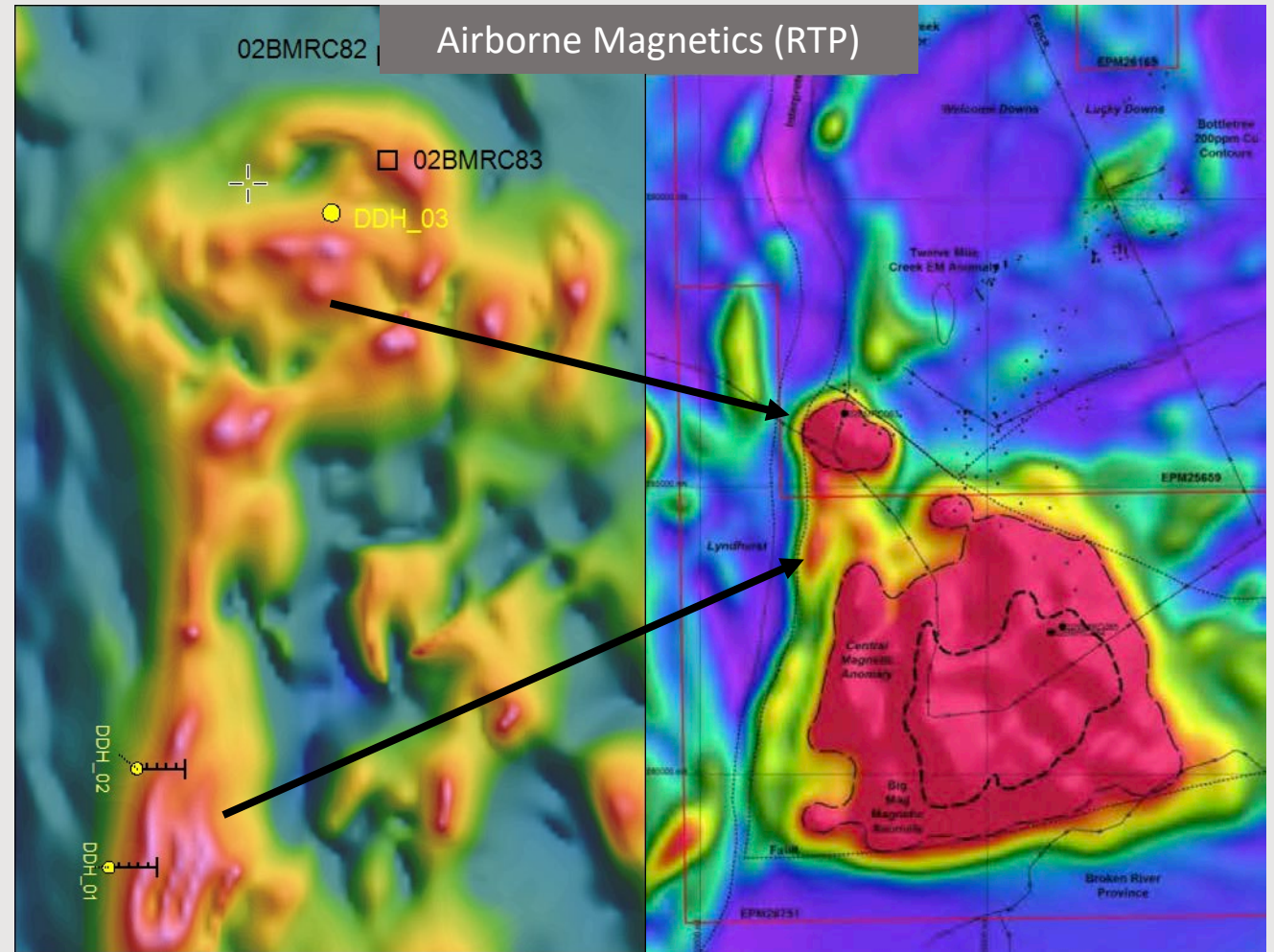
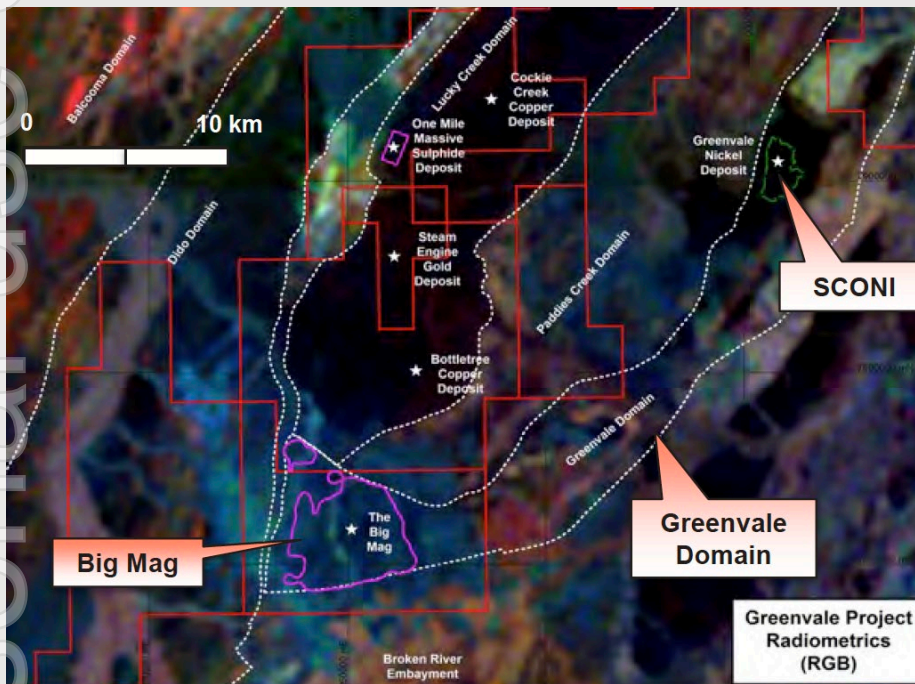
## Clear evidence for Voisey's Bay style magmatic sulphide Ni-Cu-PGE systems

- Previous exploration by Anglo American (2012) confirmed evidence for Voisey's Bay geological system
- New tenement applications over Ni-Cu-PGE prospective ground have more than doubled the size of the Greenvale Project
- Many fertile troctolite intrusions identified by Anglo but not followed up or inadequately followed up
- Localised areas of differentiated mafic and ultramafic intrusions (Ovoids and feeder dykes) with high potential for **magmatic Ni-Cu-Co-PGE** mineralisation identified in high resolution airborne magnetics
- largely **unexplored**



# Big Mag – Ni-Cu-Co-PGE

- A series of mafic and differentiated ultramafic intrusions
- Drill-ready potential Ovoid and Feeder Dyke
- Intense magnetic anomaly target at depth within Ovoid
- Differentiated / layered intrusion appears within potential Feeder Dyke



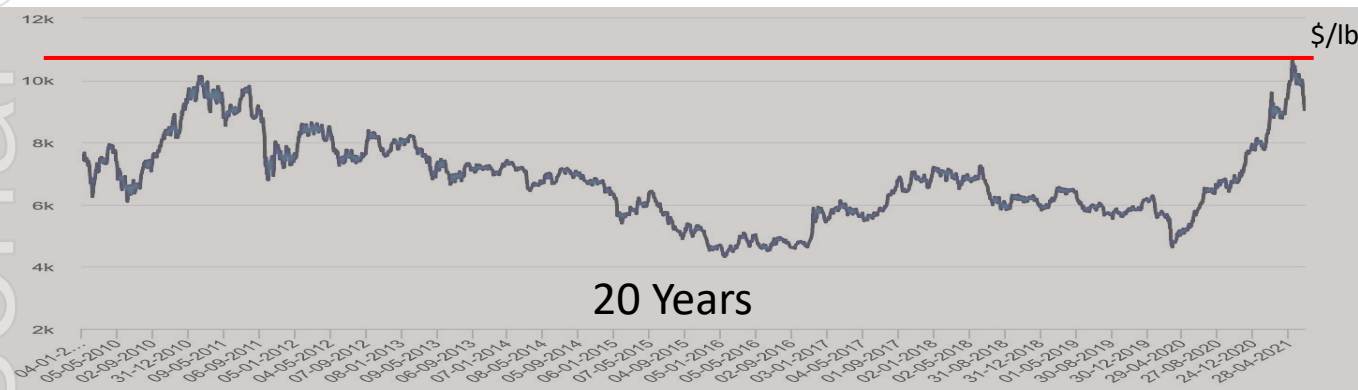


# Copper – 2021 Bull copper market

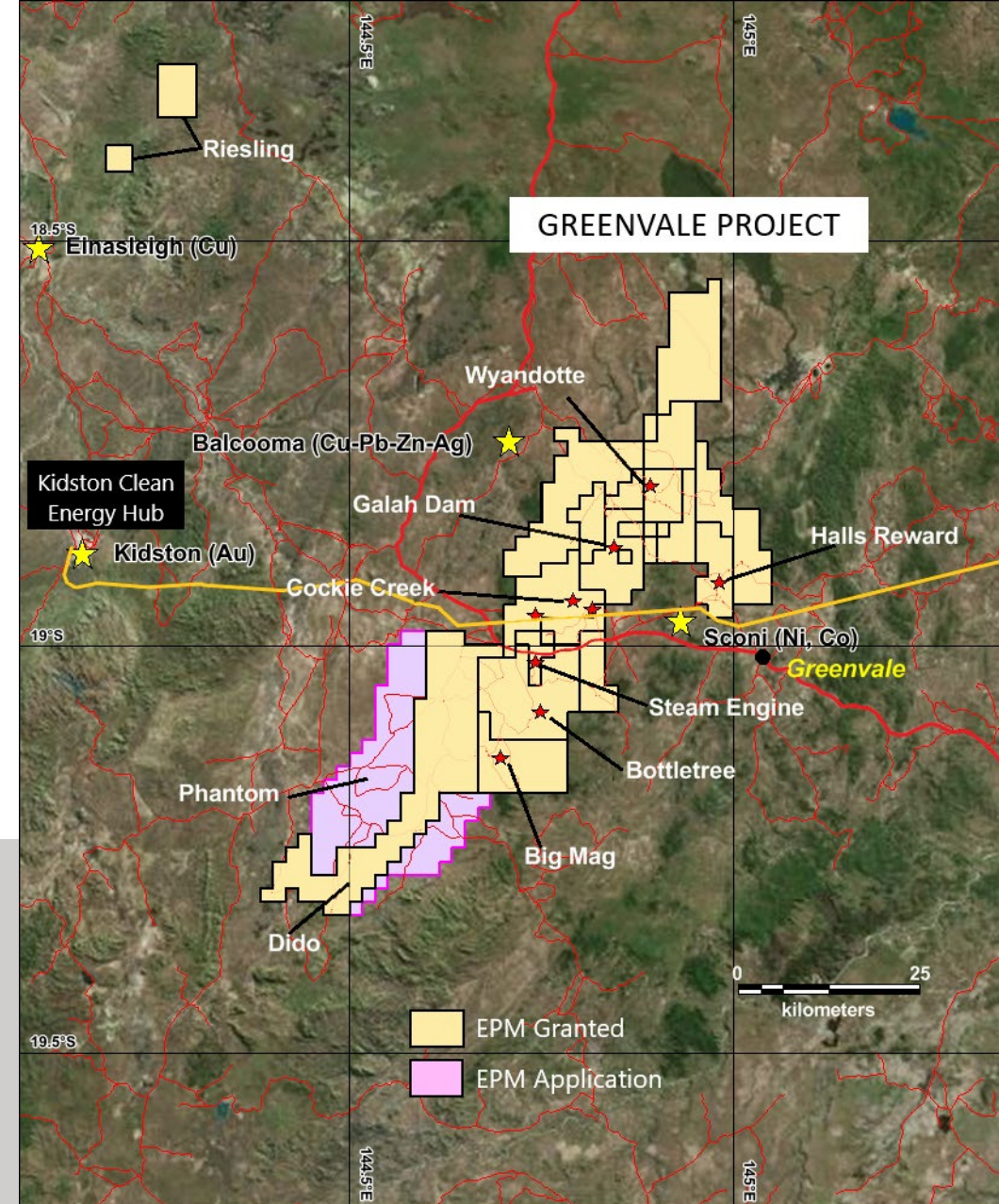
SPQ has copper well and truly covered

- SPQ holds the Ordovician Lucky Creek Corridor
- Intense concentration of copper deposits and prospects
- Near-term production & Tier-1 prospects, for example:
  - **Bottletree:** large copper system (292 m @ 0.22% Cu including 18.7 m @ 1.12% Cu) (refer ASX announcement dated 30 September 2018)
  - **Cockie Creek:** large Cu-Au porphyry target under near-surface copper mineralization of 13 Mt @ 0.42% Cu (0.25% Cu cut-off)<sup>10</sup>
  - **Wyandotte:** high grade copper, assessing potential for toll treatment

LME COPPER HISTORICAL PRICE GRAPH



20 Years

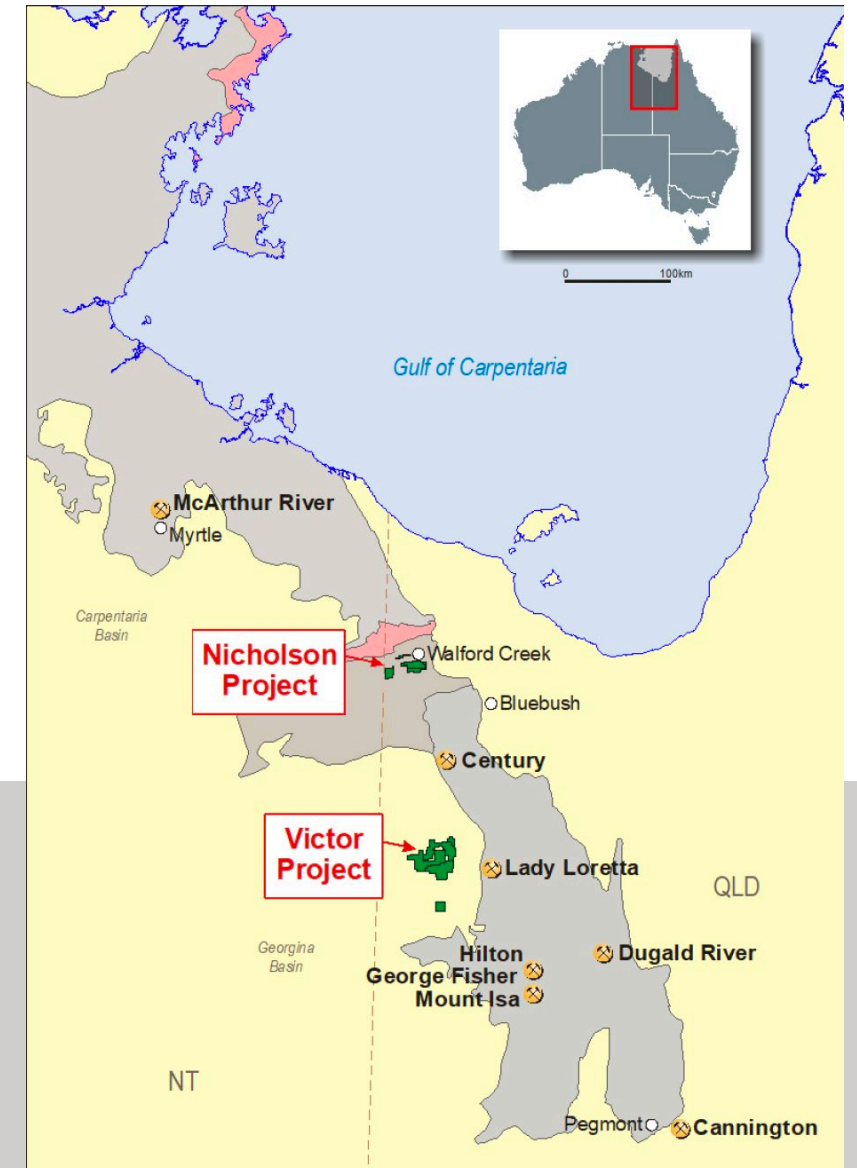
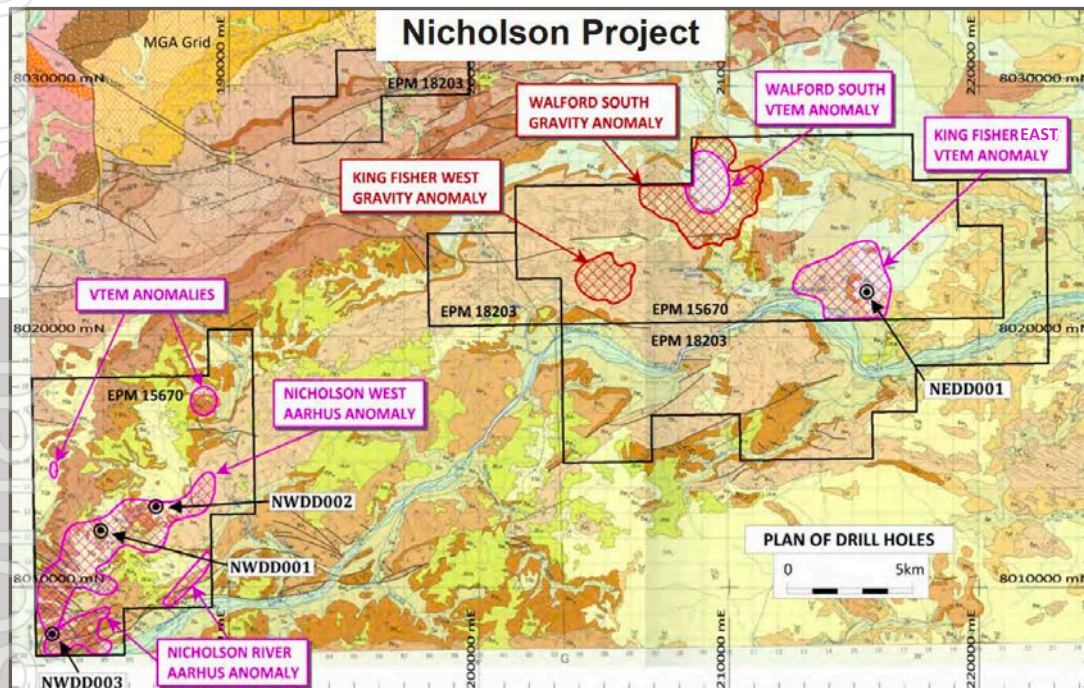


<sup>10</sup> ASX announcement dated 27 March 2013



# Nicholson and Victor – Tier 1 Mount Isa-style zinc-lead-silver-copper targets

- Located within Carpentaria Zinc Province, which contains 20% of the world's zinc inventory
- Underexplored – the most likely area to make the next Mount Isa discovery



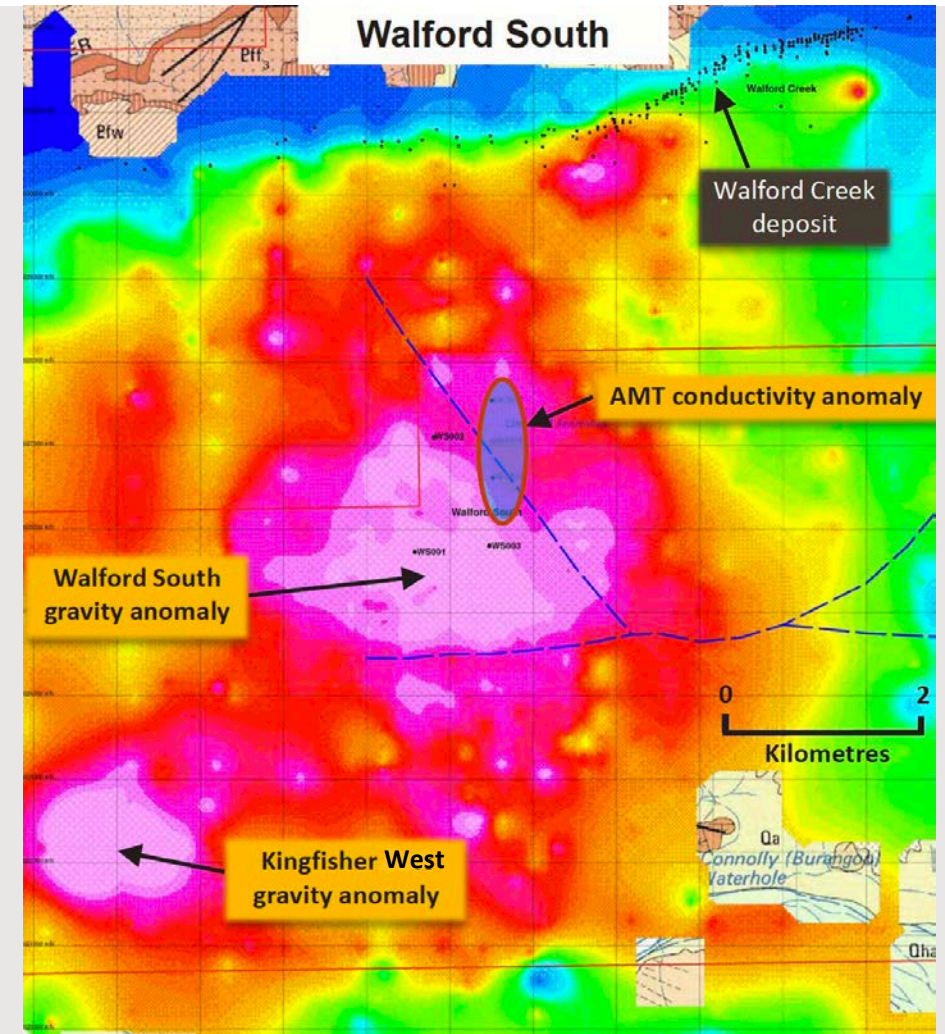
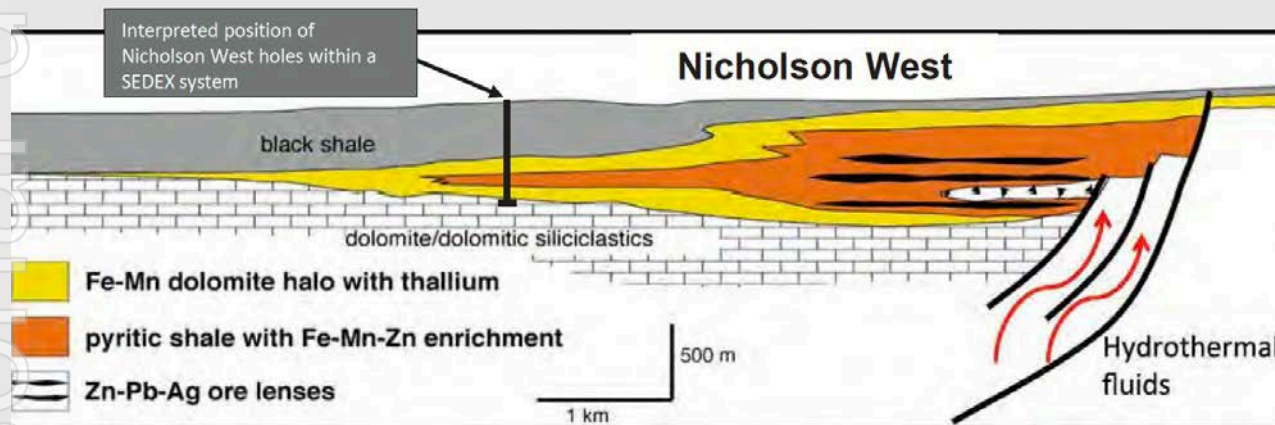


# Nicholson – Nicholson West and Walford South targets

## Walford South: Tier 1-potential VTEM, gravity and AMT target

- Coincident VTEM, gravity and associated AMT anomalies
- Anomalies adjacent to at least two major fault structures
- Previous SPQ drilling (3 holes) intersected “classic” well-developed stratiform pyritic shale, typical of McArthur River style mineralisation

## Nicholson West: 2019 drilling confirmed presence of SEDEX mineralisation systems (McArthur River and Mt Isa) developed within thick (up to 340 m) Mount Les Siltstone



(Refer ASX announcement dated 6 March 2020)

# Board

Board and senior management team have deep exploration and technical expertise coupled with extensive corporate experience



## Carlos Alberto Fernicola

Non-Executive Chairman

*B.Com, FCA, F Fin, FCIS, FCSA, GradDipAdvAcctg, GDippAppFinInv, GDipAppCorpFin*

30+ years of experience in accounting, taxation, audit and the financial services industry

Appointed Non-Executive Director in 2014

Fellow of Institute of Chartered Accountants Australia and New Zealand, Fellow of the Governance Institute of Australia and Fellow of the Financial Services Institute of Australia



## Peter Henry Hwang

Managing Director

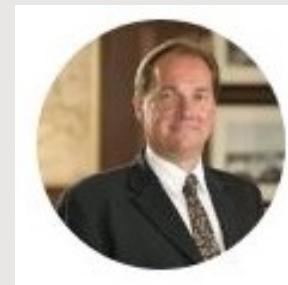
*B.Sc (Hons), LLB MAIG, MGSA, MQLS*

12 years of experience in mineral exploration  
18 years in mining and resources law

Geologist – Gold, base metals and diamonds

Lawyer specialising in mining, commercial, M&A, mining infrastructure regulatory and native title law, previously with Freehills, Ashurst and Minter Ellison

Former director of junior resources companies;  
founding director of ActivEx Limited (ASX:AIV)



## Simon James Pooley

Non-Executive Director

*MAusIMM, GAICD*

30+ years of experience in base and precious metals exploration, project evaluation, mine development and operation.

Formerly Chief Operating Officer for Novo Resources Corp., General Manager Operations for Millennium Minerals Limited and General Manager Exploration and Business Development for CopperCo Limited.



# Investment Summary

- Diverse portfolio of exploration projects with exposure to Au, Cu, Ni-Cu-PGE, Pb-Zn-Ag in world-class mineral provinces, all 100% SPQ owned
- **2021 focus on Greenvale Project** – strategic programs to progress towards a central Au-Cu processing operation fed by multiple satellite pits
- Numerous copper prospects (small to large tonnage, low to high grade) over 50km mineralised corridor
- Advanced prospects (north-south) comprise **Wyandotte** (Cu), **Cockie Creek** (maiden 13Mt @ 0.42% Cu), **Steam Engine** (Au) and **Bottletree** (Cu), all with significant expansion potential
- **Near-term revenue:** Free cash flow from Steam Engine
- The right commodities for the future – Cu, Ni, Au (Co + PGE)





**Superior**  
Resources

## Contact Us

Email:  
[manager@superiorresources.com.au](mailto:manager@superiorresources.com.au)

Phone:  
+61 7 3847 2887

Website:  
[www.superiorresources.com.au](http://www.superiorresources.com.au)

