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### A Modern Australian Energy Metals Growth Company



#### What does Stavely Minerals offer that is different?





# **BIG** targets

### **BIG Targets**



#### **Hawkstone Magmatic Ni-Cu-Co Project**<sup>1</sup>

 Adjacent to IGO / Buxton Merlin / Double Magic discovery – ave. 8% Ni tenor, new Dogleg discovery – emerging magmatic nickel province

Eg. Nova & Bollinger, Voisey's Bay

#### **Stavely Project - Thursday's Gossan Prospect**

- High-Grade Cayley Lode Cu-Au-Ag discovery
  - 9.3Mt at 1.23% Cu, 0.23g/t Au and 7.1g/t Ag<sup>2</sup>
- Belief there is a large porphyry at depth eg.:
  - Far Southeast, Resolution

#### Stavely Project - S41 Au-Ag Prospect

- Recent discovery of ~2km long x 750m wide hydrothermal breccia
- Carbonate base metal gold system eg.:
  - Kidston, Mt Leyshon, Kelian

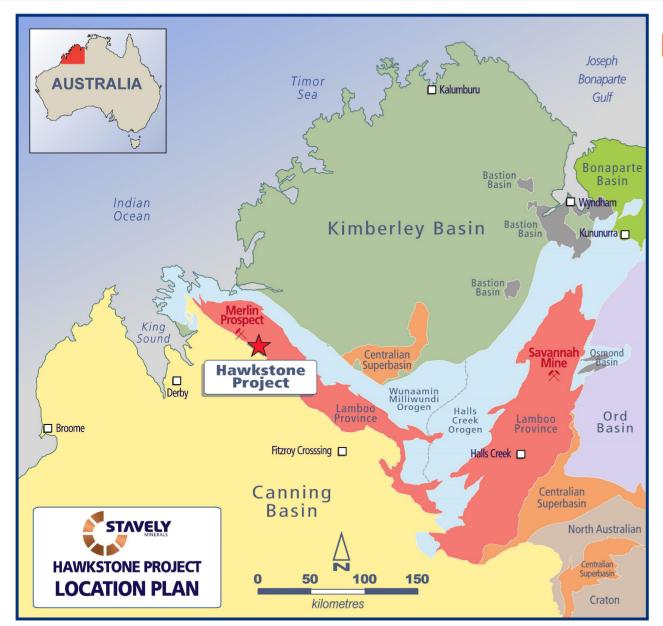


<sup>&</sup>lt;sup>1</sup>See ASX announcement 23 May 2023

<sup>&</sup>lt;sup>2</sup>See ASX announcement 14 June 2022, Appendix 1







#### **Hawkstone Ni-Cu-Co Project**

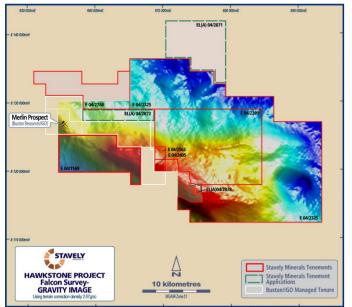
- ~850km2 100% tenure
- ~30km of the prospective Ruins Dolerite
- Buxton / IGO JV Merlin discovery 1km from tenement boundary
  - High tenor ave. 8%Ni<sup>1</sup> (=~24g/t Au<sup>2</sup>) in massive sulphides
- Complimentary field season (winter) to the Stavely Project (summer)
- Potential for Li pegmatites as there are historic Sn-W-Ta mines in Stavely Minerals' tenure

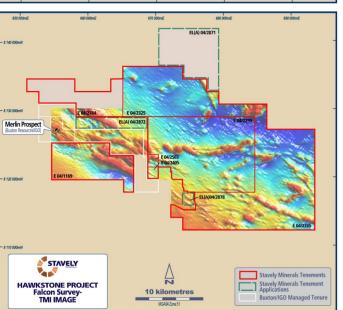
See ASX announcement 23/05/2023 and available from www.stavely.com.au

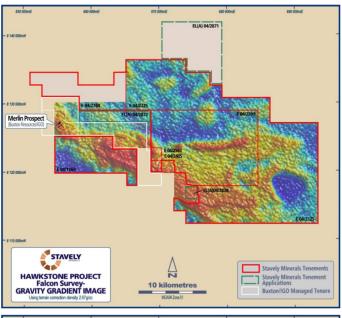
<sup>&</sup>lt;sup>1</sup> Buxton Resources website

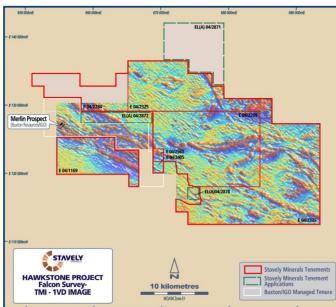
<sup>&</sup>lt;sup>2</sup> AuEq = nickel grade (%) x ((AUD nickel price/ 0.000453592) / 100) / (AUD gold price / 31.10347)









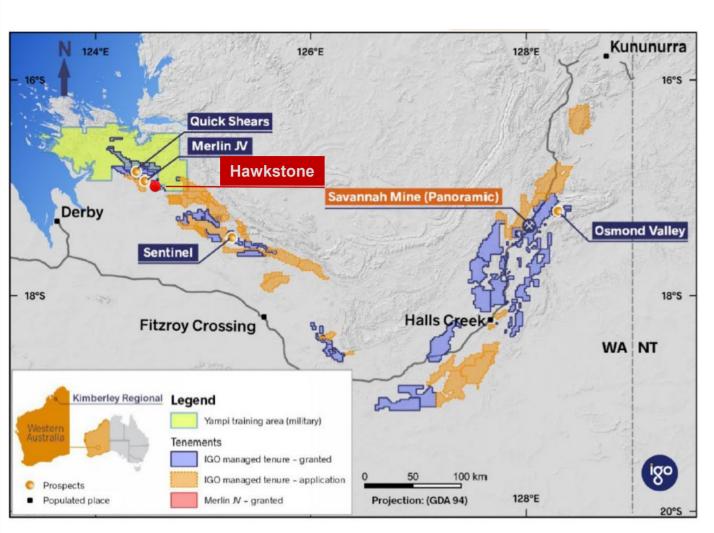


#### **Hawkstone Ni-Cu-Co Project**

- ~850km2 100% tenure
- ~30km of the prospective Ruins Dolerite
- Recently acquired Falcon Gravity Gradiometer / magnetic survey
- Setting up for exploration success
- Buxton / IGO JV Merlin discovery 1km from tenement boundary
  - High tenor ave. 8%Ni in massive sulphides

See ASX announcement 05/10/2023 and available from www.stavely.com.au



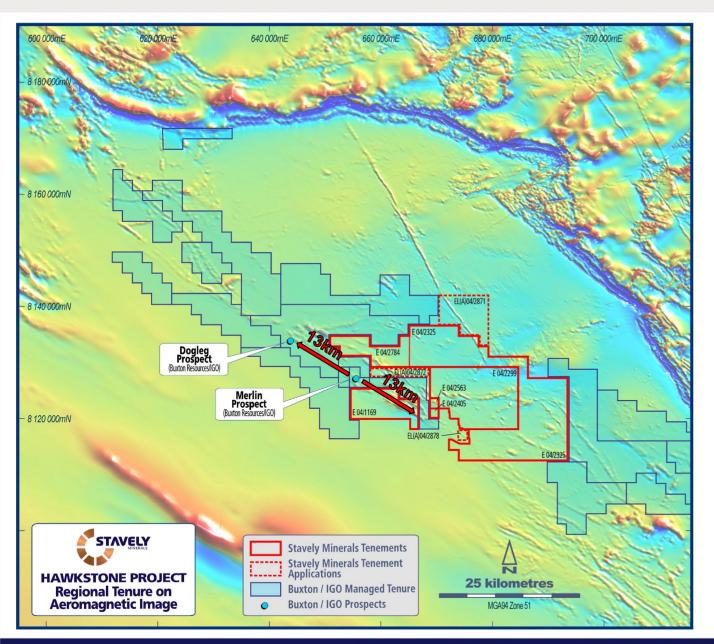


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  - High tenor ave.  $8\%Ni = \sim 24g/t$  Au
- <u>NEW</u> Dogleg nickel discovery (Quick Shears) 13km NW of Merlin<sup>1</sup>:
  - 23WKDD003 13.85m @ 4.35% Ni, 0.34% Cu and 0.15% Co from 177.34m, incl.
  - 5.86m @ 7.47% Ni, 0.31% Cu and 0.25% Co
  - 23WKDD004 2.85m of semi-massive sulphide (assays pending)
- Emerging Ni-sulphide province
- IGO is a major holder regional play

<sup>1</sup>See ASX: BUX announcement 04/10/2023, 19/10/2023 and 6/11/2023



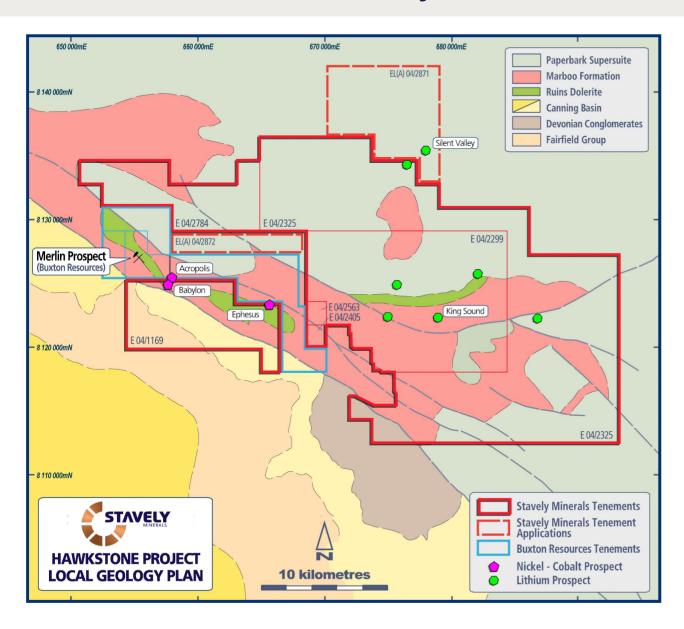


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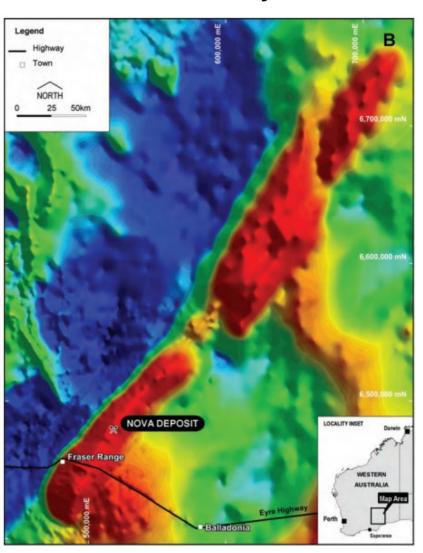
<sup>1</sup>See ASX: BUX announcement 04/10/2023, 19/10/2023 and 6/11/202



#### **Hawkstone Gravity**

#### 670 000mF 660 000mF EL(A) 04/2871 E 04/2784 E 04/2325 EL(A) 04/2872 Merlin Prospect (Buxton Resources/IGO) - 8 120 000mN 8 110 000mN STAVELY **Stavely Minerals Tenements HAWKSTONE PROJECT Stavely Minerals Tenement Applications Falcon Survey-**10 kilometres **Buxton/IGO Managed Tenure GRAVITY IMAGE** MGA94 Zone 51

#### **Nova Gravity**



# Nova discovery intercept:

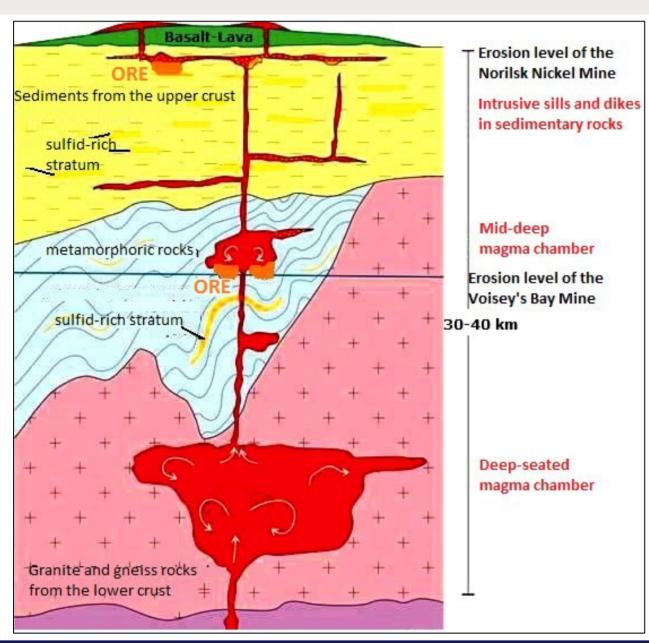
4m at 3.8% Ni and 1.42% Cu<sup>1</sup>

# Dogleg discovery intercept:

- 13.85m @ 4.35%
   Ni, 0.34% Cu and
   0.15% Co, incl.
- 5.86m @ 7.47% Ni, 0.31% Cu and 0.25% Co

# Hawkstone Ni-Cu-Co Project – Voisey's Bay Analogy



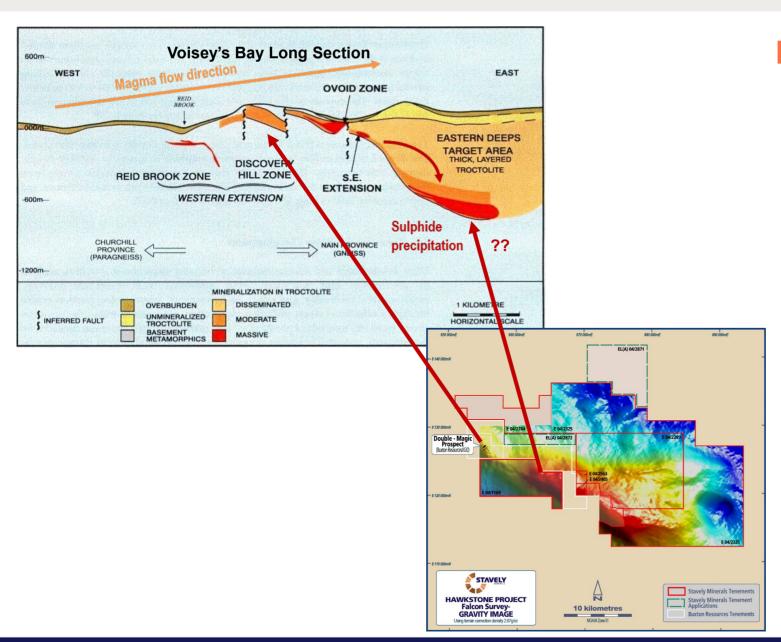


#### **Hawkstone Ni-Cu-Co Project**

- Magmatic nickel deposits form by ascending magma acquiring sulphur from country rocks and those sulphides sequester Ni, Cu and PGE from melt.
- Sulphides precipitate in low-velocity 'traps'

# Hawkstone Ni-Cu-Co Project – Voisey's Bay Analogy





#### **Hawkstone Ni-Cu-Co Project**

- If the Merlin discovery equates to the Discovery Hill Zone at Voisey's Bay...
- Then does the apparent mafic magma chamber at depth in Hawkstone represent an Eastern Deeps target?
- Stavely Minerals has been awarded a WA Exploration Incentive Scheme (EIS) grant of up to \$220,000 of co-funding for a proposed 800m deep diamond drill hole to test this target

See ASX announcement 14 November 2023 and available from <a href="www.stavely.com.au">www.stavely.com.au</a>



## **Stavely Project**



- First-mover position largest and most strategic tenement holding in the Stavely Volcanic Belt, western Victoria
- **Discovery** outstanding shallow high-grade copper-gold-silver discovery (September 2019), the Cayley Lode
- Cayley Lode MRE<sup>1</sup> 9.3Mt at 1.23% Cu, 0.23g/t Au and 7.1g/t Ag
- Total Resources 28.3Mt at 0.75% Cu, 0.11g/t Au and 3.5g/t Ag
- Containing 210,000t Cu, 100,000oz Au, 3.2Moz Ag and 2.4kt Zn
- New style of mineralisation Magma/Butte copper lode-style system, never before seen in Australia
- Multiple regional discovery opportunities recently discovered S41 breccia-hosted Au-Ag system, Junction 1 prospect, Toora Road, S2 and S3 porphyry targets<sup>2</sup>





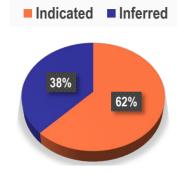
<sup>&</sup>lt;sup>1</sup> reported in compliance with the JORC Code 2012, see ASX announcement 14 June 2022, see Appendix 1 for classifications

<sup>&</sup>lt;sup>2</sup> see ASX announcement 3 October 2023

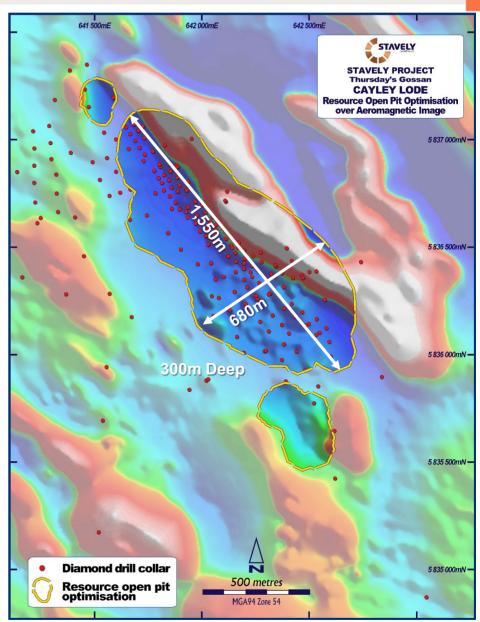
### Cayley Lode Mineral Resource Estimate



- Magma / Butte copper lode-style system outstanding exploration target never before seen in Australia
- 9.3Mt at 1.23% Cu, 0.23g/t Au and 7.1g/t Ag<sup>1</sup>



- Open Pit Mineral Resources within open pit shell optimised at US\$6/lb
  - 1,550m long, 680m wide and 300m deep
- Mineralisation remains open down-plunge and down-dip



<sup>&</sup>lt;sup>1</sup> Reported in compliance with the JORC Code 2012, see ASX announcement 14 June 2022

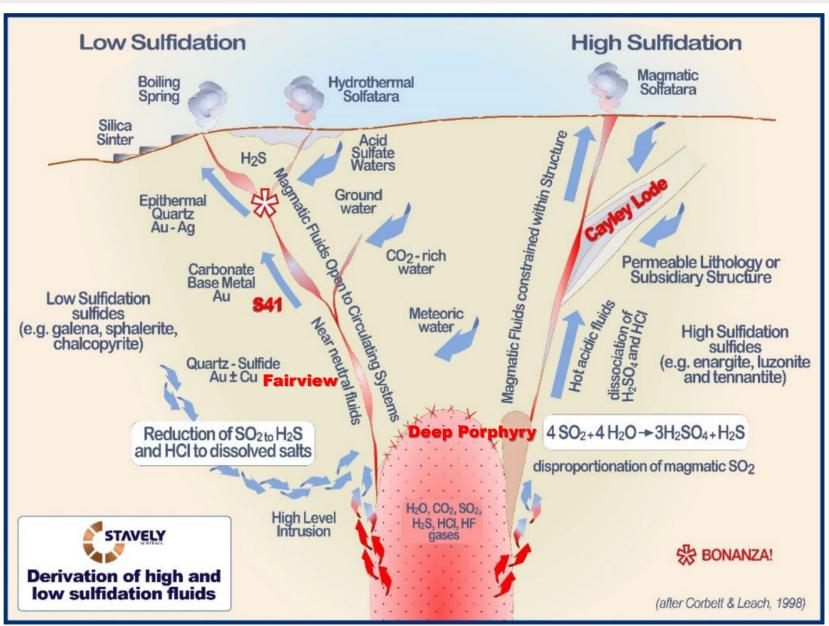


### Regional Exploration – Massive Opportunity for Discovery



 Full range of discovery opportunities associated with the ancient Stavely Volcanic Arc

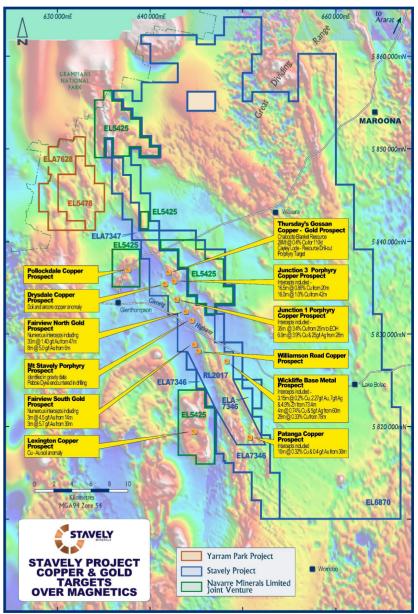
5-7km



## Regional Exploration – Massive Opportunity for Discovery

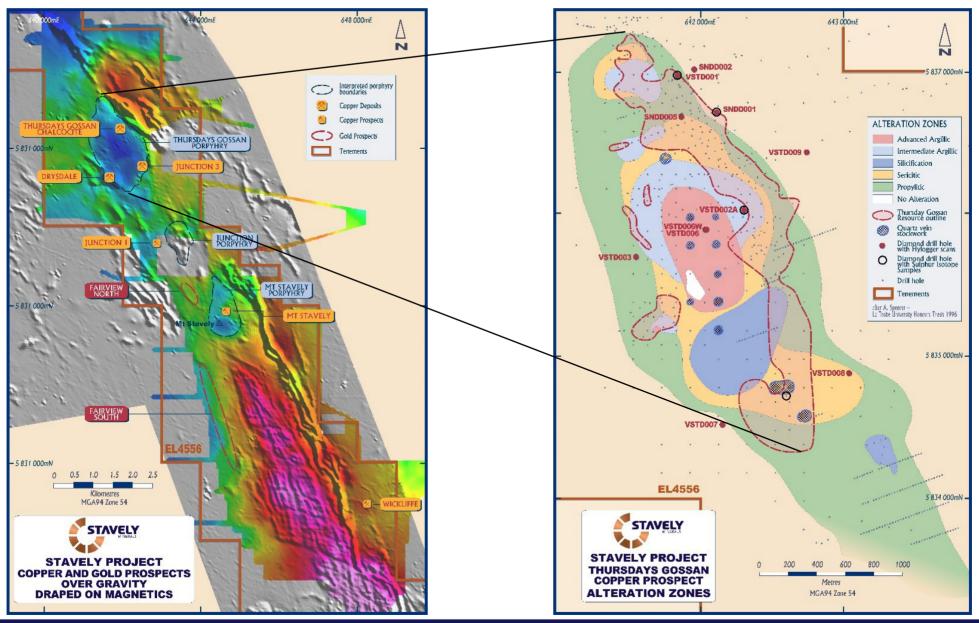


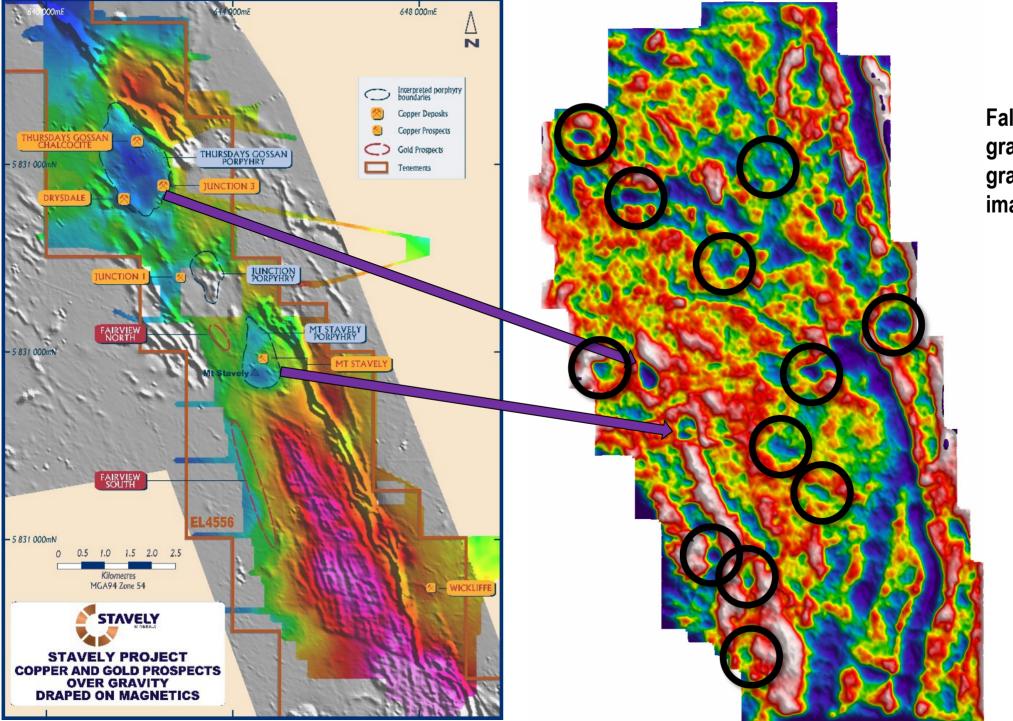
- Despite previous exploration by industry 'top dogs' Newcrest, Rio Tinto, CRA Exploration and North Limited, Stavely Minerals has a 'first mover' advantage
- +1,000km<sup>2</sup> of tenure covering ~115km of porphyryprospective volcanic arc segments
- Known prospects occur largely within a ~20km window of sub-crop – this is what the majors focused on
- The other ~95km strike of prospective arc rocks are covered by younger cover or younger basalt – this is Stavely's first mover advantage



## Ground Gravity – Thursday's Gossan Alteration / Gravity Low







Falcon™ gravity gradiometer image

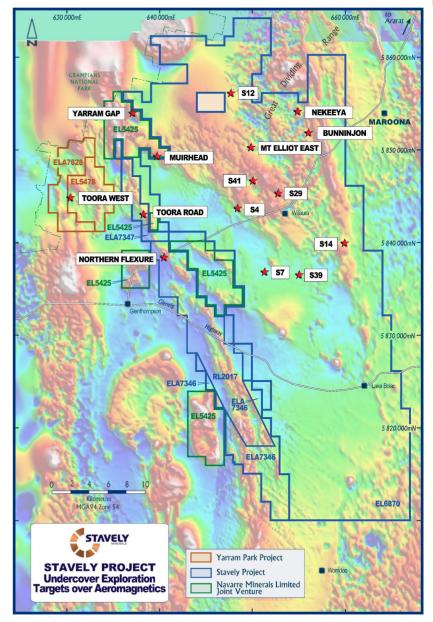
# Regional Exploration – Massive Opportunity for Discovery



- The team has identified 19 regional targets and have active aircore and soil auger programmes
- All of the regional targets are under younger (~10Ma) basalt cover or tertiary transported cover
- Already made a 'blind' porphyry discovery under 30m of transported cover at Toora West
- Targeting method works proprietary Falcon<sup>©</sup> gravity gradiometer data opens new exploration 'search space'
- New emerging discovery at the S41 prospect



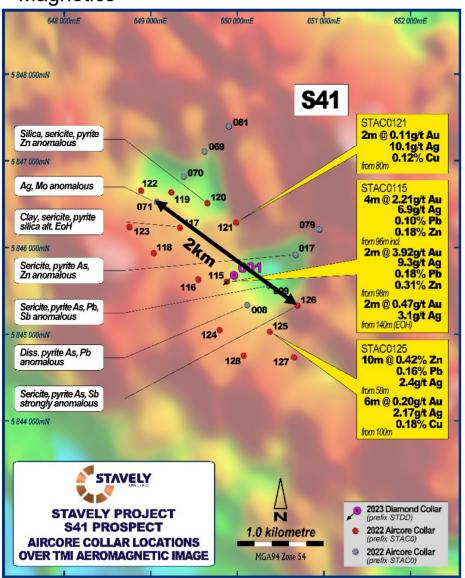
Massive quartz vein with chalcopyrite and molybdenite at Toora West prospect - STWD005 at 287m – **0.6m** @ **8.72g/t Au**, **1.85% Cu**, **5.2g/t Ag & 151ppm Mo** 



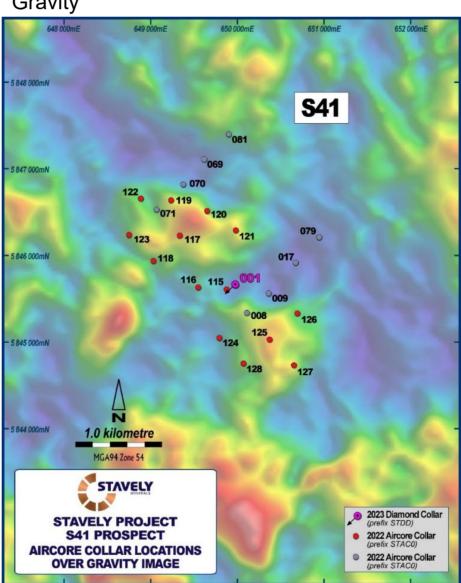
### Emerging Discovery? – The S41 Breccia Prospect



#### Magnetics



#### Gravity



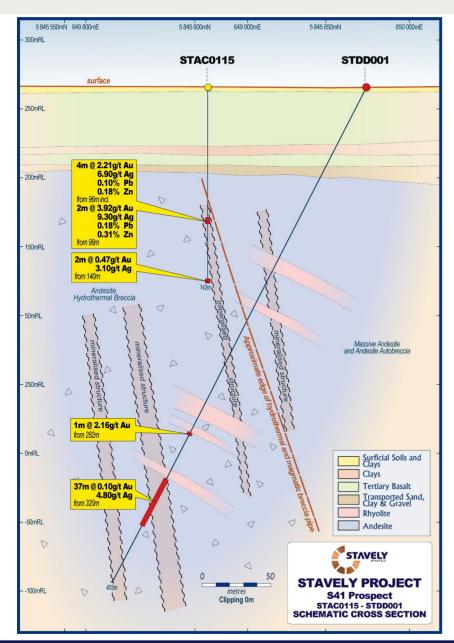
#### **S41 Prospect Aircore**

- 4m at 2.21g/t Au from 96m drill depth, including:
  - 2m at 3.92g/t Au from 98m in aircore drilling
- Large 2km alteration zone
- Strongly anomalous base metals and pathfinder geochemistry

See ASX announcement 19/04/2023 and available from www.stavely.com.au

# Emerging Discovery? – The S41 Breccia Prospect





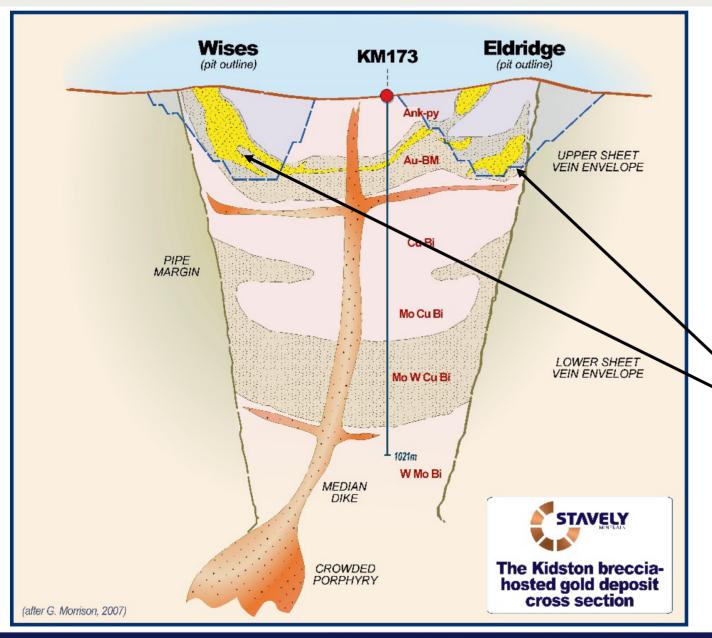
#### **S41 Diamond Drill Hole**

- 1m at 2.16g/t Au from 282m drill depth
- 37m at 0.10g/t Au, including:
  - 2m at 0.56g/t Au from 320m, and
  - 5m at 24.3g/t Ag from 353m
- Gold and silver in the system
- Breccia-hosted systems host notoriously inconsistent gold mineralization eg. Kidston
- Big systems

See ASX announcement 26/04/2023 and available from <a href="https://www.stavely.com.au">www.stavely.com.au</a>

### Emerging Discovery? – The S41 Breccia Prospect





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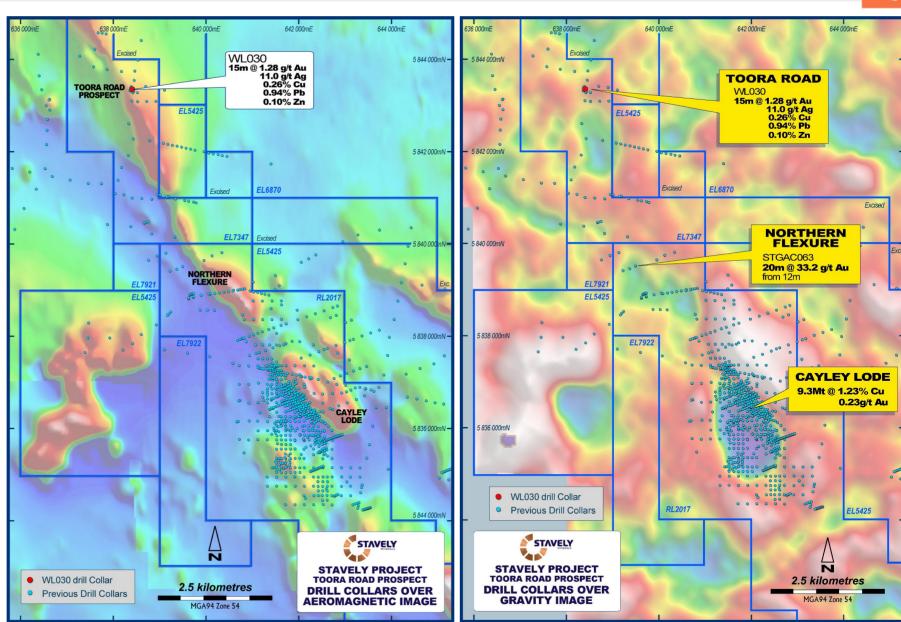
#### Toora Road



#### **Toora Road Prospect**

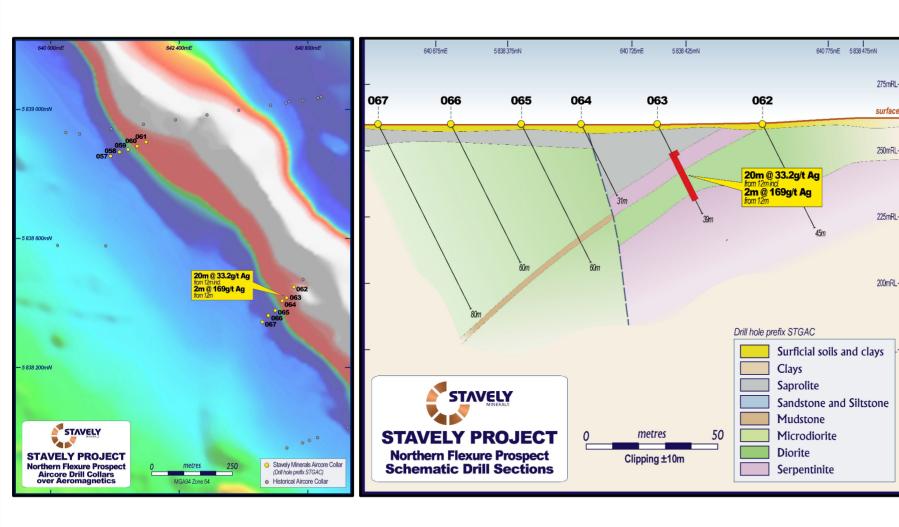
- Same magnetic trend as the Cayley Lode and the Northern Flexure prospect (left image)
- Historic aircore drill intercept (CRA): 15m
   28g/t Au, 11g/t
   Ag, 0.26% Cu, 0.94%
   Pb and 0.10% Zn immediately north of a prominent gravity low (right image)

See Stavely Minerals Prospectus and available from www.stavely.com.au



### Emerging Discovery? – The Northern Flexure Prospect





#### **Northern Flexure Prospect**

- First drill programme
- 20m at 33.2g/t Ag from 12m drill depth, including:
  - **2m** at **169g/t Ag** from 98m
- Similar ultramafic contact setting to the Cayley Lode

See ASX announcement 19/04/2023 and available from www.stavely.com.au

### Junction 1 – Massive Opportunity for Additional Discovery

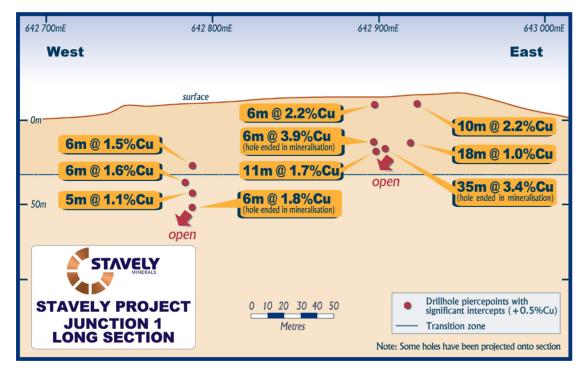


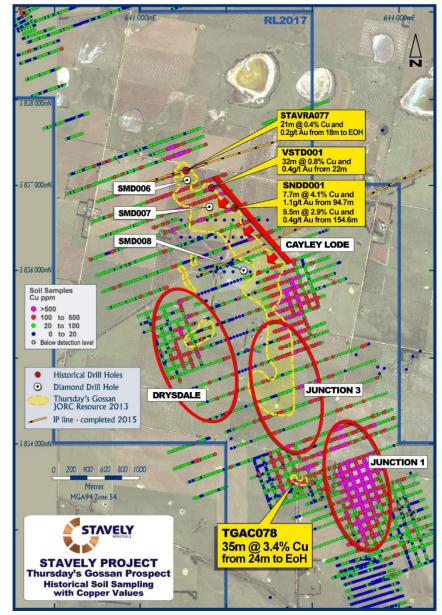
#### **Junction 1 Prospect**

- 2km south of the Cayley Lode
- Largest and highest grade soil anomaly in the project
- Restricted access over the past 15 years

• Aircore drill results including 35m at 3.4% Cu from

24m





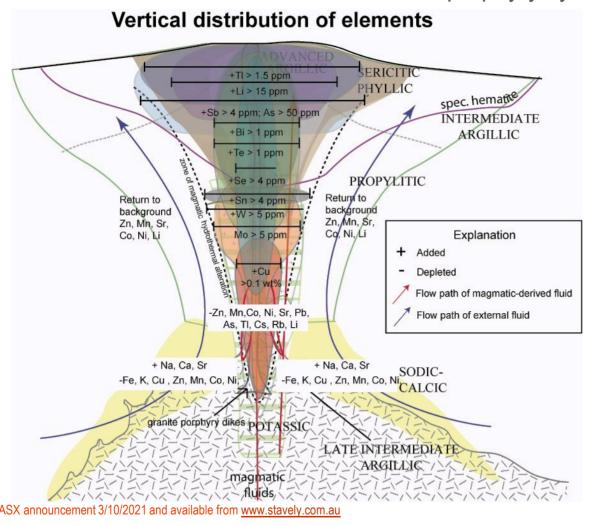
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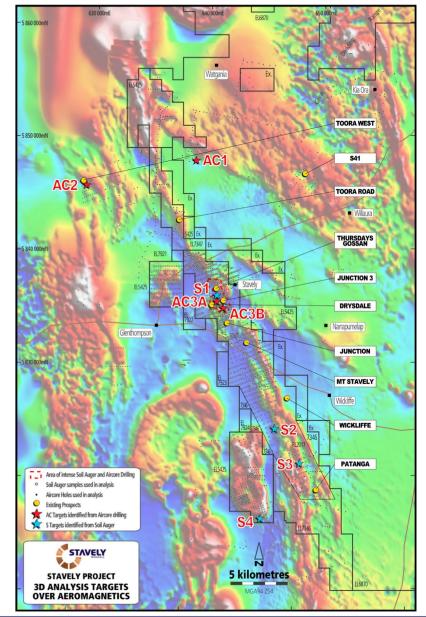


## Regional Exploration – Massive Opportunity for Discovery



- Soil geochemistry analysis by Dr Dan Cole, Fathom Geophysics
- Utilises vertical metals zonation model above porphyry systems

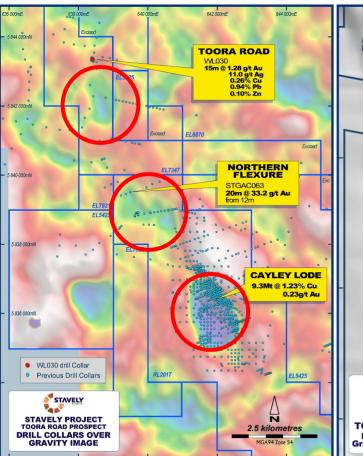


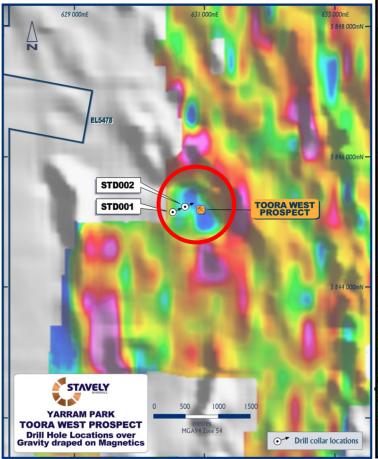


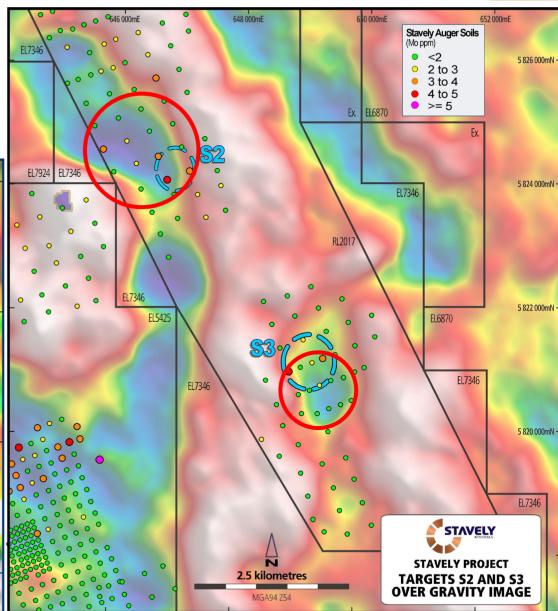
### Regional Exploration – Massive Opportunity for Discovery



• S2 and especially S3 porphyry targets are associated with gravity lows, consistent with hydrothermal alteration related gravity lows at Thursday's Gossan porphyry, The Northern Flexure, Toora Road prospects and the Toora West porphyry.









### 12-month Work Programme





### Copper and Nickel ...the Ultimate "Future-Facing" Commodities





power



In order to migrate to a low-carbon economy and provide alternative energy solutions, certain strategic minerals are required to build the wind farms, solar farms, electric vehicles and high-technology needed to facilitate this transition.

Copper and Nickel are some of the key metals required



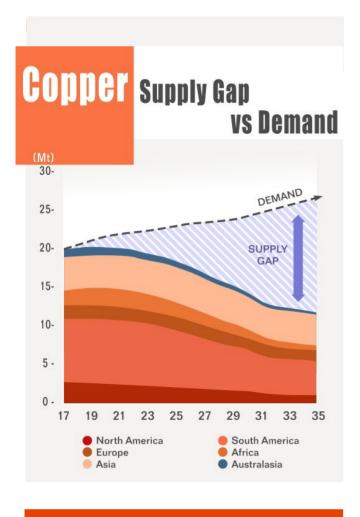
4 x more copper in an electric car than one with an internal combustion engine



6 types of bacteria killed by copper surfaces

### Copper and Nickel...Compelling Market Fundamentals





CRU estimates a 15 million tonne copper supply deficit by 2035

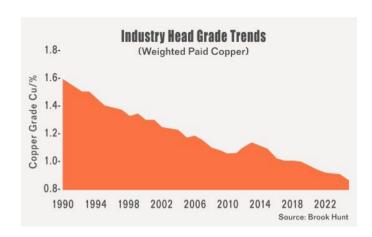
There are very few high-quality projects coming on stream in first world jurisdictions





Escondida, the world's largest copper mine:

- 1.72% Cu average head grade in 2007
- 0.52% Ore Reserve grade in 2019



#### **Corporate Summary**



CAPITAL STRUCTURE	
ASX Ticker	SVY
<b>Share Price (12/11/23)</b>	\$0.068
Shares on Issue	382M
Cash (30/09/23)	\$2.7M
Market Capitalisation	\$26M
Management and Staff	~13% equity

Directors	
Chris Cairns	<b>Executive Chair</b>
Jennifer Murphy	<b>Technical Director</b>
Peter Ironside	<b>Non-Executive Director</b>
Amanda Sparks	Non-Executive Director & Company Secretary
Rob Dennis	Non-Executive Director



### Summary – Key Investment Takeaways



- ✓ First-mover position (+1,000km²) in a potential emerging copper province at Stavely
- ✓ Discovery of structurally-controlled high-grade lode-style copper-gold-silver mineralisation similar to the Magma (Arizona) and Butte (Montana) deposits
- Initial Cayley Lode Mineral Resource estimate completed, PLUS the deep porphyry discovery opportunity
- Outstanding potential for a new porphyry province with regional targets and emerging discoveries –
   Junction 1, S41 Breccia, Toora Road and new porphyry targets S2 and S3
- Hawkstone Ni-Cu-Co Project provides an outstanding opportunity for discovery in an emerging Ni province with a winter exploration season
- BIG targets







# STAVELY MINERALS ASX Code: SVY **Contact Us: Stavely Minerals Limited Level 1, 168 Stirling Highway Nedlands WA 6009** www.stavely.com.au info@stavely.com.au Ph: 08 9287 7630 The information in this presentation is extracted from information available to view on www.stavely.com.au. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and, in the case of estimates of Mineral Resources or Ore Reserves, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement 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 announcement. STAVELY MINERALS - FINDING THE COPPER THE WORLD NEEDS FOR A LOW-CARBON FUTURE

#### Mineral Resources Classifications



Table 1. Cayley Lode Initial Mineral Resource estimate									
Resource Material	Resource Category	Cut-off	Tonnes	Grade	Cont.	Grade	Cont.	Grade	Cont.
		(Cu %)	(Mt)	(Cu %)	Cu (Mlbs)	(Au g/t)	Au (oz)	(Ag g/t)	Ag (oz)
Primary Mineralisation (OP)	Indicated	0.2	5.87	1.04	134.4	0.23	43,407	7	1,321,074
	Inferred	0.2	1.7	1.3	49	0.2	10,931	9	491,907
Sub-To	Sub-Total Primary OP		7.6	1.1	183	0.2	54,338	7.4	1,808,158
Primary Mineralisation (UG)	Indicated	1.0	•	-				-	
	Inferred	1.0	1.7	1.8	69	0.2	10,931	6	327,938
Sub-To	Sub-Total Primary UG			1.8	69	0.2	10,931	6	327,938
Total	Total Cayley Lode			1.23	252	0.23	65,000	7.1	2,100,000



Fable 4. Stavely Minerals Total Mineral Resources estimates											
Resource Material	Resource Category	Cut-off	Tonnes	Grade	Cont.	Grade	Cont.	Grade	Contained Metal	Grade	Cont.
		(Cu %)	(Mt)	(Cu %)	(MIbs Cu)	(Au g/t)	(oz Au)	(Ag g/t)	(oz Ag)	(Zn %)	(kt Zn)
Total Resources	Indicated	1	21.5	0.61	288	0.1	67,301	3.1	2,153,972	0.3	8
	Inferred	1	6.8	1.2	175	0.1	32,797	4.7	1,043,839	0.2	16
Total St	28.3	0.75*	463	0.11*	100,000	3.5	3,200,000	0.2	24		



<sup>&</sup>lt;sup>1</sup> Reported in compliance with the JORC Code 2012, see ASX announcement 14 June 2022