

#### **BOARD OF DIRECTORS**

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Non-Executive Director

Mr Alan Still
Non-Executive Director

Ms Carol New Non-Executive Director, Joint Company Secretary

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# HORSESHOE METALS LIMITED

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## **Mt Gunson Copper Project Update**

#### **HIGHLIGHTS**

- Preparatory work underway to restart oxide copper heap leach production
- Mt Gunson has historically produced >156,000t copper, 62t of silver, and 2,900t of cobalt in concentrates
- Existing oxide copper stockpiles earmarked for fast-tracking of copper cement production
- Sale of residual copper cement product stocks agreed with Adchem SA.
- Considerable unsolicited interest is being received from various potential purchasers for the copper cement
- Initial review of historic exploration and mining database complete includes 20,000m of drilling
- Priority shallow oxide targets identified for drilling to expand production base
- Recent significant rainfall has increased fresh water resources and delaying need for planned capital purchase to improve water quality

Horseshoe Metals Limited (ASX: HOR) ("Horseshoe", or "the Company") is pleased to announce recent advances made in relation to the Operating Agreement with Copper Mining and Metallurgy Pty Ltd ("CMM") to produce copper metal from oxide material at the historic Mt Gunson Copper Mine <sup>1, 2</sup> in South Australia (refer Figures 1, 2, 3).

Horseshoe has the right to earn up to a 50% interest in a right to produce copper at Mt Gunson Copper Mine through contribution to expenditure, and has the immediate rights to 50% of all surplus cashflow from any copper operation conducted under the agreement.

Recommencement of oxide-copper heap leaching is now underway at the Mt Gunson copper project in South Australia, with CMM Operations Manager Mr Steven Sickerdick on-site directing activities. In conjunction with a recent site visit by representatives from Horseshoe, surface stockpiles were identified for priority leach pad construction, and are expected to provide an early boost in planned copper-cement production.

Recent significant rainfall in January has provided significant fresh water, (refer Figure 5) deferring the need for a planned capital purchase to improve water quality thereby preserving capital for other activities. While CMM still intends to purchase equipment to ensure stable quality water supply, the requirement can now be deferred to a less capital intensive period.

- 1. ASX: HOR 16th October 2019 "Entry Mt Gunson Copper and Glenloth Gold Projects"
- 2. ASX: HOR 7<sup>th</sup> November 2019 "Entry Mt Gunson Copper and Glenloth Gold Projects Revised"

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Some residual bags of copper cement product remained on site from the previous pilot-scale operation and under the term sheet agreement with Adchem, CMM is making arrangements for the sale of this product. CMM continues to receive considerable unsolicited interest from alternative purchasers for the copper cement.

The Company has now also collated and commenced review activities of a significant project database of historical drilling with a view to identifying residual oxide targets in proximity to the Main Open Cut (MOC) area. The data confirms the persistent, elongate tabular form of flat-lying shallow oxide mineralisation (refer Figures 8, 10). The extensive database totals around 20,000m of drilling, which (excluding Cattlegrid drilling on ML5599) is mostly made up of holes less than 15m in depth, as outlined in Table 1 below. Table 2 outlines significant historical intersections of copper mineralisation taken from this database, and referenced within the figures in this report.

Table 1: Mt Gunson Drill Database details.

Prospect	Number of Holes	Number of metres	Average depth	Number of samples
Main Open Cut	528	6864.5	13	5476
House	256	2673	10	3201
Core Shed	117	895	7	887
Carriage	27	420.5	16	359
Total	1102	10853	10	9923
Cattlegrid				
Exploration	394	16936	43	5724
Grade Control	923	2987	3	3755
Total	1317	19922		9479

Remnant oxide material extending immediately outside the current MOC pit boundary (refer Figures 4, 7, 8) is open and presents a priority drill target. In addition oxide mineralisation is present in the 'Gap' area between MOC and House prospects, where a series of four holes confirmed shallow copper mineralisation for possible mining (refer Figure 4, 7, 8, 9, 10). The Company is planning drilling of these and other available areas in the near term.

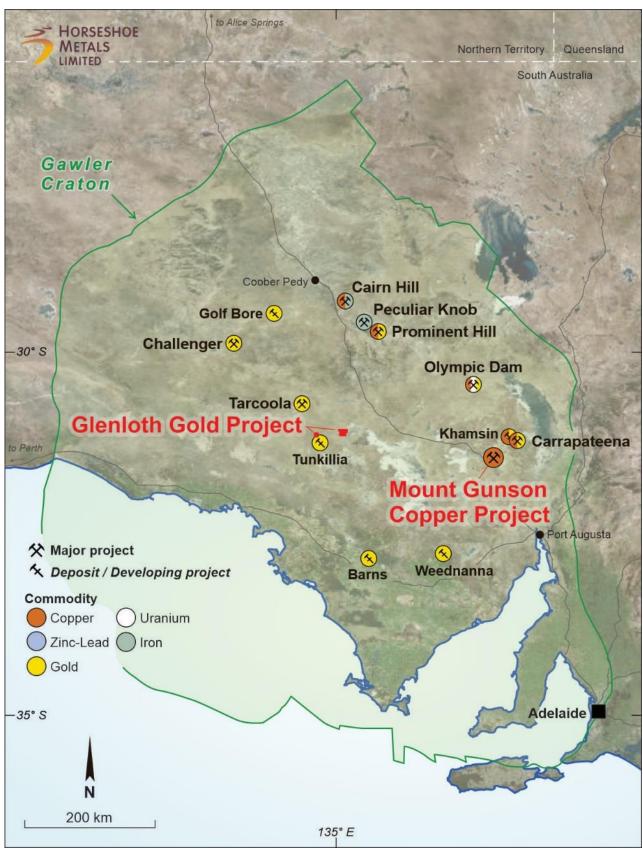


Figure 1: Location of Mt Gunson Copper Project and Glenloth Gold Project, with significant local deposits, South Australia

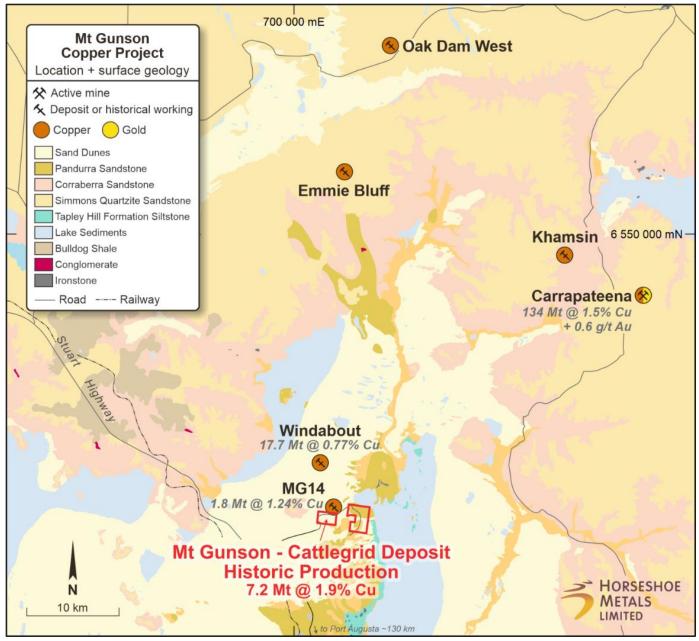


Figure 2: Location of Mt Gunson Copper Project and significant local deposits

#### Carrapateena Resource:

https://www.ozminerals.com/uploads/docs/170824\_ASX\_Release\_Resource\_and\_Reserve\_Statement\_-\_Carrapateena\_August\_2017.pdf p5

#### Windabout Resource:

https://gindalbie.com.au/wp-content/uploads/2018/01/Mt-Gunson-Copper-Cobalt-Project-Update.pdf\_ p1

#### MG14 Resource:

#### **Cattlegrid Historic Production:**

http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.697.4826&rep=rep1&type=pdf p5

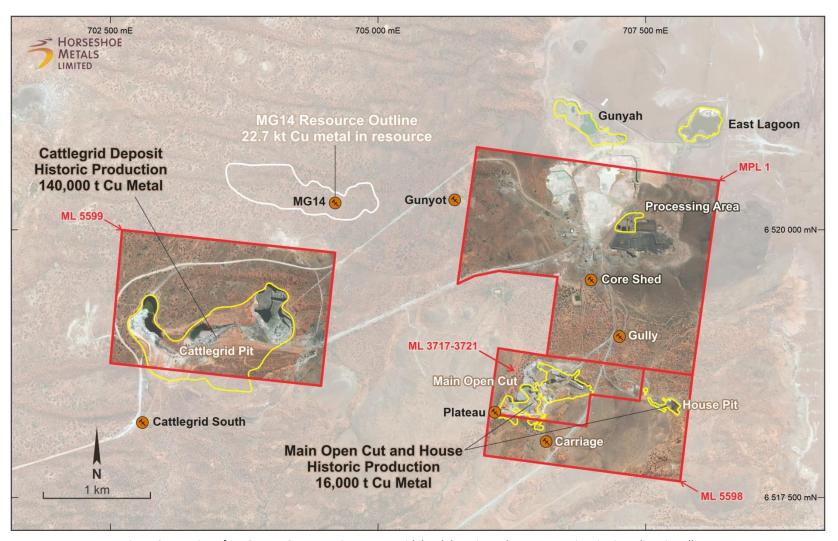


Figure 3: Location of Mt Gunson Copper Project tenure with local deposits and prospects. Historic pit outlines in yellow.

Cattlegrid Historic Production: Bampton (2003) Copper Mining and treatment in South Australia, MESA Journal 28, pp38-44 http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.697.4826&rep=rep1&type=pdf p2 MG14 Resource:

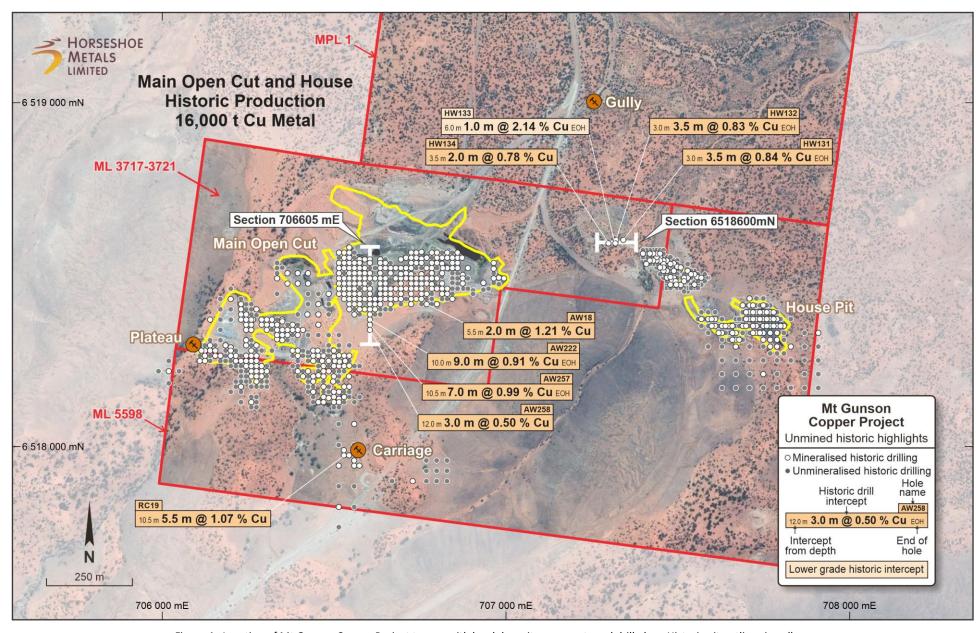


Figure 4: Location of Mt Gunson Copper Project tenure with local deposits, prospects and drill plan. Historic pit outlines in yellow.



Figure 5: Recent 2020 photo of part of Main Open Cut (MOC) at Mt Gunson, highlighting available rainwater for processing



Figure 6: View of Mt Gunson Oxide Treatment Facilities and Leach Ponds, 2019

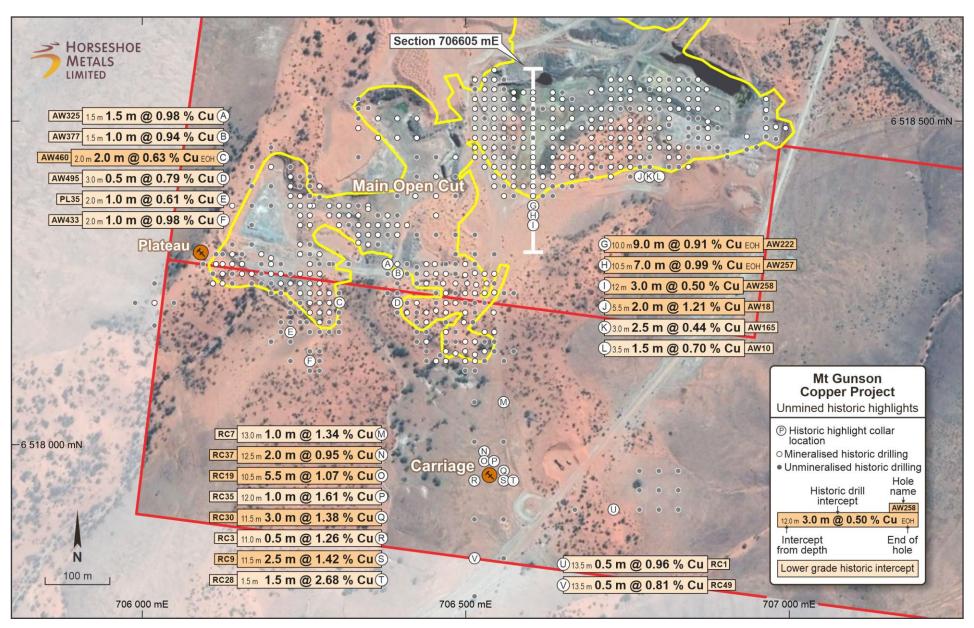


Figure 7: Drill Plan from current Database, Mt Gunson area, Main Open Cut area showing location of section lines for Figure 7, and highlighting historic results from priority drilling target areas

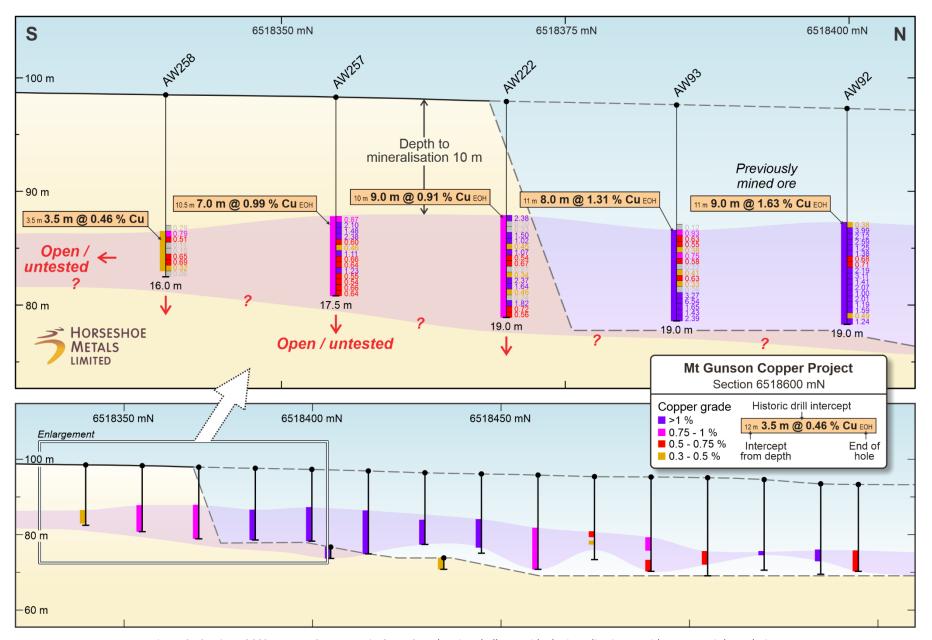


Figure 8: Section 706605mE, Mt Gunson Main Open Cut, showing shallow residual mineralisation outside current pit boundaries

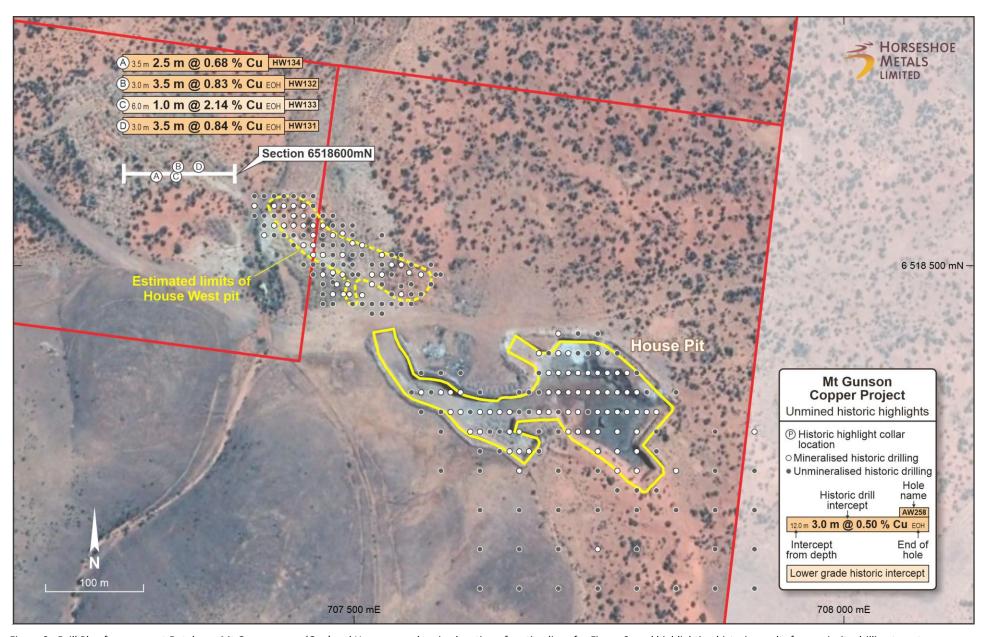


Figure 9: Drill Plan from current Database, Mt Gunson area, 'Gap' and House area showing location of section lines for Figure 9, and highlighting historic results from priority drilling target areas

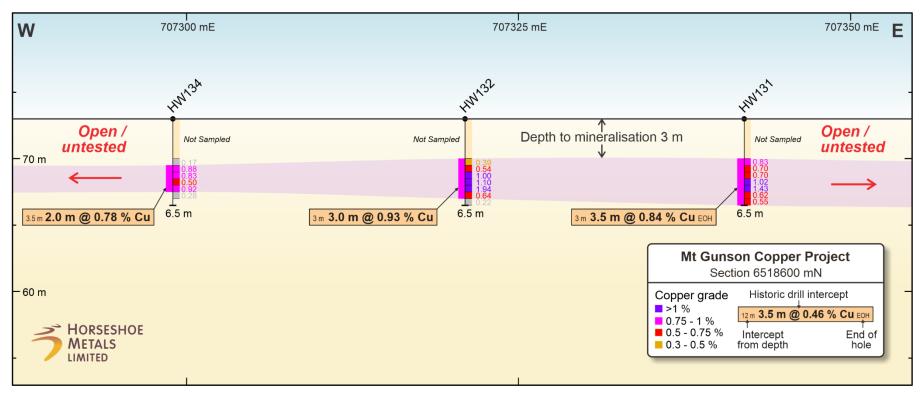


Figure 10: Section 6518600 mN, 'Gap' area between Mt Gunson Main Open Cut and House, showing shallow residual oxide mineralisation outside current pit boundaries

#### About Mt Gunson Copper Project (ML3717-21, ML5598, ML5599; MPL1):

Copper ore was discovered at Mount Gunson in 1875 and the first recorded production was from 1899. A smelter was subsequently erected in the MOC area in 1904. Small-scale production continued in the area until the Cattlegrid deposit was discovered and subsequently mined by CSR Limited from 1974 to 1986, with 7.2 Mt of 1.9% Cu ore mined from the Cattlegrid open pit. Together with 270,000 t of MOC ore, the tenements recorded production 156 000 t of copper, 62 t of silver and 2900 t of cobalt in concentrates (refer Figures 2, 3).

From 1987 to around 2006, Adelaide Chemical "Adchem" produced over 14,000 t of copper in cement for feed to the Burra cupric oxide plant from the Mt Gunson Project, principally from heap leaching of 1.2 Mt of 1.3% copper oxide ore from the MOC area, Gunyot, House and Core Shed deposits.

The leases forming the current project (ML3717-21, ML5598, ML5599; MPL1) were subsequently acquired and are currently held by a family-owned earthmoving contractor based in Adelaide, who previously operated their own copper-oxide leach operation until the oxide development rights were granted to CMM on the 29<sup>th</sup> June 2017 under a 'Licence to Operate'.

Under the Licence to Operate, CMM has a 100% interest in rights to explore, develop and operate oxide copper deposits, stockpiles and tailings on the above listed tenements using all available surface infrastructure including camp, mains power/water supply, treatment plant and earthmoving equipment, with the exception of ML5599, where the licence allows unrestricted use of water and the right to re-process copper-bearing material on the floor of the site. The initial term of the agreement between CMM and the Licensor, who holds the tenements, expires on 29<sup>th</sup> June 2020 and can be extended by CMM for a period of a further two years to the 29<sup>th</sup> June 2022. Further extension beyond 29<sup>th</sup> June 2022 can be negotiated during the term of this lease.

CMM has considerable expertise in developing copper mining operations in South Australia. CMM has successfully completed a pilot scale oxide copper heap leach trial at Mt Gunson and now plans to advance to commercial small-scale production. CMM currently has a term sheet in place with Adchem for an initial 3 year term commencing in 2020 for copper cement delivered to Adchem's Burra facility (some 350km south), paying a copper price based on 80% of the London Metal Exchange (LME) per tonne for a date mutually agreed once the product has been sampled and assayed on arrival.

The terms of the Mt Gunson transaction are as follows:

- HOR (or its related nominee) has the right to earn a 50% interest in CMM and the Mt Gunson Project by sole funding of up to \$5M during a 4-year period with a minimum commitment of \$500,000. Funding is to be provided by way of cash generated from production and capital raisings i.e. placements and rights entitlement offers. HOR has the right, over a 4-year period, to subscribe for up to 10,000 shares in CMM (representing 50% of CMM's share capital following issue of those shares) to fund CMM's development of Mt Gunson as an incorporated joint venture. Shares in CMM are to be issued to HOR (or its nominee) as funding is provided over time, with every \$50k contribution earning 100 shares in CMM (representing 1% of CMM's existing issued capital).
- While HOR is sole funding it has rights to 50% of all surplus cash flow from any copper production conducted by CMM.
- HOR has a first right of refusal should other shareholders in CMM wish to sell their respective interests in CMM. If any shareholder in CMM (including HOR) is the subject of a change of control or an insolvency event, or breaches the agreement governing the incorporated joint venture, the other shareholders will have a right of first refusal to acquire the relevant CMM shares, at an independently determined fair value.
- CMM Director Mr Steven Sickerdick is retained as Operations Manager at Mt Gunson, while HOR manages administration, exploration and development.
- Horseshoe has issued 10 million fully paid ordinary shares valued at \$0.02 under its existing capacity under LR7.1 to Mines Trust ("MT") a company associated with Mr Sickerdick as part-payment of fees owing by CMM to MT, with the amount being deemed to form part of HOR's funding of the Mt Gunson Project. The nominal \$200,000 value comprises part of the minimum commitment of \$500,000, and CMM is to issue 400 shares to HOR accordingly.
- HOR will be required to spend \$300,000 within 4 years before either electing to withdraw, or continue to earn up to 50% of CMM by sole funding of an additional \$4.5M within the same 4-year period.

#### **Horseshoe Lights Copper-Gold Project**

PCF Capital (PCF) have provided an updated timetable to the company to seek indicative offers for the acquisition, or such other arrangement to the satisfaction of the Company of the Horseshoe Project, with the company anticipating a completion date for a transaction agreement in April 2020.

The Board of directors of HOR has authorised this announcement to be given to the ASX.

**Enquiries** 

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Table 2: Significant Copper Intercepts >= 2.0m and >= 0.5 % Cu from Adelaide Chemical Company ("Adchem") drilling activity circa 1985-1989; Mt Gunson Copper Mine- ML3717-3721, ML5598. (NB. Bold results >5% x m results)

MAIN   Description   Process   Pro	Hole ID	Туре	EAST GDA94z53	NORTH GDA94z53	RL	Depth	Dip	Azi	From (m)	To (m)	Interval (m)	Cu %	Hole ends in mineralisation	Unmined
MAY   BH   700500   6518475   95.7   21   90   0   15.5   18.5   2   18.9							MAIN (	OPEN	CUT					
AWA	AW1	ВН	706590	6518505	95.1	24	-90	0	16	24	8	0.91	Yes	
MAYS	AW2	BH	706590	6518475	95.7	21	-90	0	16.5	18.5	2	1.89		
AWK   BH   706620   6518415   96.6   18   90   0   11   18   7   1.14								_						
Name														
AWR														
AWR								_						
MAYI   BH								_					163	
AW14  BH   706740   6518553   87, 28   90   0   11.5   15   3.5   1.04													Yes	
AW15	AW13	ВН		6518535	87	18	-90	0	11.5	15	3.5			
MW17	AW14	ВН	706740	6518565	87.2	18	-90	0	12	17	5	1.37		
Mary   BH	AW15	ВН	706740	6518475	88.6	12	-90	0	7	12	5	1.48	Yes	
AW18														
AW20										_			Yes	
MW24   BH   706800   6518335   79.4   6   90   0   1   4.5   3.5   1.34								_						Yes
AW30														
AW30								_						
AW32					_			_		_				
AW34														
AW34										_				
AW36	AW34	ВН	706860	6518565	79	9	-90	0	2.5	9	6.5	2.2	Yes	
AW38   BH	AW35	ВН	706800	6518550	80	8	-90	0	2	7	5	1.94		
AW39	AW36	ВН	706800	6518535	80.8	7	-90	0	2.5	7	4.5	1.15	Yes	
AW42		ВН	706800	6518490	82.8							1.49		
AW443   BH										_				
AW44														
AW45         BH         706770         6518550         82.5         10.5         -90         0         6.5         10.5         4         1.82         Yes           AW46         BH         706770         6518520         82         10.5         -90         0         4         10         6         1.2         9         1.2         9         7         2.19         1         2.2         9         7         2.19         1         2.2         9         7         2.19         2         9         7         2.19         2         9         7         2.19         2         9         7         2.19         2         9         7         2.19         2         2         9         7         2.19         2         2         9         7         2.19         2         2         9         0         1.5         11.5         10         1.18         4         0.82         2         2         9         0         1.5         11.5         10         1.18         1         2         2         9         0         1.5         11.5         10         2         2         8         2.1         Yes         4         1.8														
AW46 BH 706770 6518520 82 10.5 -90 0 4 10 6 1.2 AW47 BH 706770 6518430 85.3 11.5 -90 0 2 9 7 2.19 AW50 BH 706740 6518430 89.5 11.5 -90 0 7 11 4 0.82 AW51 BH 706740 6518460 88.8 12 -90 0 1.5 11.5 10 1.18 AW52 BH 706740 6518450 88.2 13.5 -90 0 8 13.5 5.5 1 AW52 BH 706740 6518450 88.2 13.5 -90 0 8 13.5 5.5 1 AW54 BH 706740 6518490 91.2 20 -90 11 1 16 5 1.7 AW55 BH 706740 6518490 91.2 20 -90 0 12 20 8 2.1 AW56 BH 706710 6518490 91.2 20 -90 0 12 20 8 2.1 AW56 BH 70670 6518460 92.5 13 -90 0 8.5 13 4.5 1.14 AW59 BH 706650 6518460 92.5 13 -90 0 8.5 13 4.5 1.14 AW59 BH 706650 6518460 95.2 16.5 -90 0 12 16.5 4.5 1.41 AW60 BH 706650 6518460 95.2 16.5 -90 0 12 16.5 4.5 1.41 AW60 BH 706680 6518460 94.5 15.5 -90 0 12.5 17.5 3 1.5 AW66 BH 706680 6518460 94.5 15.5 -90 0 10.5 15.5 5 2.27 AW63 BH 706680 6518460 95.2 14.5 -90 0 10.5 15.5 5 2.27 AW63 BH 706680 6518460 95.2 14.5 -90 0 10.5 15.5 5 2.27 AW63 BH 706680 651840 94.5 15.5 -90 0 10.5 10.5 14 3.5 1.3 AW64 BH 706680 651840 95.2 14.5 -90 0 10.5 20 9.5 2.06 AW65 BH 706690 6518430 96.6 18 -90 0 10.5 20 9.5 2.06 AW66 BH 706590 6518430 96.6 18 -90 0 12.5 17.5 5 1.99 AW67 BH 706590 6518490 95.2 20 -90 0 16.5 10.5 5 0.7 AW68 BH 706590 6518490 95.2 20 -90 0 16.5 10.5 0.7 AW70 DTH 706575 651850 95.4 25 -90 0 16.5 12.5 5.5 0.9 AW71 DTH 706575 6518490 95.2 20 -90 0 16.5 12.5 5.5 0.9 AW71 DTH 706575 6518490 95.2 20 -90 0 16.5 12.5 5.5 0.9 AW71 DTH 706575 6518490 95.2 20 -90 0 16.5 12.5 5.5 0.9 AW71 DTH 706575 6518490 95.2 20 -90 0 16.5 12.5 5.5 0.9 AW71 DTH 706575 6518490 95.2 20 -90 0 16.5 12.5 5.5 0.9 AW71 DTH 706575 6518490 95.2 20 -90 0 16.5 12.5 5.5 0.9 AW71 DTH 706575 6518490 96.4 19 -90 0 12.5 17.5 5.5 0.9 AW77 DTH 706575 6518490 96.4 19 -90 0 12.5 17.5 5.5 0.99 AW77 DTH 706575 6518490 96.4 19 -90 0 10.5 15.5 5 1.82 AW78 DTH 706575 6518490 96.4 19 -90 0 10.5 15.5 5 1.82 AW79 DTH 706575 6518490 96.4 19 -90 0 10.5 15.5 5 1.82 AW79 DTH 706575 651840 96.4 19 -90 0 10.5 15.5 5 1.82 AW79 DTH 706575 651840 96.4 19 -90 0 10.5 15.5 5 1.82 AW79 DTH 706575 651840 96.4 19 -90 0 10.5 15.5 5								_					Vos	
AW47   BH   706770   6518490   85.3   11.5   -90   0   2   9   7   2.19													res	
AW50         BH         706740         6518430         89.5         11.5         -90         0         7         11         4         0.82           AW51         BH         706740         6518460         88.8         12         -90         0         1.5         11.5         10         1.18           AW52         BH         706740         6518490         88.2         13.5         -90         0         8         13.5         5.5         1           AW55         BH         706740         6518490         91.2         20         -90         0         11         16         5         1.7         Yes           AW56         BH         706710         6518490         91.2         20         -90         0         12.2         20         8         2.1         Yes           AW56         BH         706650         6518430         95.9         15         -90         0         1.5         1.5         1.4         Yes           AW60         BH         706650         6518460         95.2         16.5         -90         0         10.5         17.5         3         1.5         Yes           AW61         BH														
AW52         BH         706740         6518490         88.2         13.5         -90         0         8         13.5         5.5         1         Yes           AW54         BH         706740         6518490         91.2         20         -90         0         11         16         5         1.7         Yes           AW55         BH         706710         6518490         91.2         20         -90         0         12         20         8         2.1         Yes           AW58         BH         706650         6518430         95.9         15         -90         0         11.5         14.5         3         2.74           AW59         BH         706650         6518490         95.2         16.5         -90         0         12.5         13.3         1.5         Yes           AW61         BH         706680         6518490         94.6         17.5         -90         0         12.5         17         4.5         1.34         Yes           AW62         BH         706680         6518490         94.5         15.5         -90         0         10.5         14         3.5         1.3           AW63 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td>										_				
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AW55 BH 706710 6518490 91.2 20 -90 0 12 20 8 2.1  AW56 BH 706710 6518460 92.5 13 90 0 8.5 13 4.5 1.14  AW58 BH 706650 6518430 95.9 15 -90 0 11.5 14.5 3 2.74  AW59 BH 706650 6518490 94.6 17.5 -90 0 12 16.5 4.5 1.41  AW60 BH 706650 6518490 94.6 17.5 -90 0 12.5 17 4.5 1.34  AW61 BH 706680 6518490 93.8 17 90 0 12.5 17 4.5 1.34  AW62 BH 706680 6518490 95.2 14.5 90 0 10.5 15.5 5 2.27  AW63 BH 706680 6518430 95.2 14.5 90 0 10.5 15.5 5 2.27  AW64 BH 706680 6518430 96.3 20 -90 0 10.5 14 3.5 13  AW64 BH 706690 6518430 96.3 20 -90 0 10.5 14 3.5 13  AW65 BH 706590 6518430 96.6 18 90 0 12.5 16.5 4 3.22  AW66 BH 706590 6518490 95.3 21 -90 0 14.5 15.5 5 1.99  AW67 BH 706690 6518490 95.3 21 -90 0 16 21 5 0.7  AW68 BH 706690 6518490 95.3 21 -90 0 16 19.5 5 0.7  AW68 BH 706650 6518490 95.2 20 -90 0 16 19.5 5 0.7  AW68 BH 706655 651855 94.6 27 -90 0 18 28 9 0.75  AW70 DTH 706575 651855 94.6 27 -90 0 16.5 21 4.5 1.54  AW71 DTH 706575 6518490 95.7 24 -90 0 16.5 21 4.5 1.54  AW72 DTH 706575 6518490 96.7 24 -90 0 16.5 21 4.5 1.54  AW73 DTH 706575 6518490 96.7 24 -90 0 16.5 21 4.5 1.54  AW74 DTH 706575 6518495 96.4 19 -90 0 16.5 21 4.5 1.54  AW77 DTH 706575 6518495 96.7 24 -90 0 16.5 21 4.5 1.54  AW78 DTH 706575 6518455 96.4 19 -90 0 12.5 15.5 5.5 0.99  AW77 DTH 706575 6518490 96.7 24 -90 0 16.5 21 4.5 1.54  AW78 DTH 706575 6518490 96.7 24 -90 0 16.5 21 4.5 1.54  AW78 DTH 706575 6518490 96.7 25 -90 0 17.5 5.5 0.99  AW77 DTH 706575 6518491 96.4 19 -90 0 12.5 15.5 5.5 0.99  AW78 DTH 706575 6518400 97.3 17 -90 0 10.5 15.5 5 1.82  AW79 DTH 706575 6518400 97.3 17 -90 0 10.5 15.5 5 1.82  AW79 DTH 706575 6518400 97.3 17 -90 0 10.5 15.5 5 1.82  AW79 DTH 706575 6518400 97.3 17 -90 0 10.5 15.5 5 1.82  AW79 DTH 706575 6518400 97.3 17 -90 0 10.5 15.5 5 6.64	AW52	ВН	706740	6518490	88.2	13.5	-90	0	8	13.5	5.5	1	Yes	
AW56         BH         706710         6518460         92.5         13         -90         0         8.5         13         4.5         1.14         Yes           AW58         BH         706650         6518460         95.9         15         -90         0         11.5         14.5         3         2.74           AW59         BH         706650         6518490         94.6         17.5         -90         0         12.5         17.5         3         1.5         Yes           AW61         BH         706680         6518490         93.8         17         -90         0         12.5         17         4.5         1.34         Yes           AW62         BH         706680         6518430         95.2         14.5         -90         0         10.5         15.5         5         2.27         Yes           AW63         BH         706620         6518430         96.3         20         -90         0         10.5         14         3.5         1.3           AW66         BH         706590         6518430         96.6         18         -90         0         16.5         21.5         0.7         Yes <t< td=""><td>AW54</td><td>ВН</td><td>706740</td><td>6518550</td><td>86.6</td><td>16</td><td>-90</td><td>0</td><td>11</td><td>16</td><td>5</td><td>1.7</td><td>Yes</td><td></td></t<>	AW54	ВН	706740	6518550	86.6	16	-90	0	11	16	5	1.7	Yes	
AW58         BH         706650         6518430         95.9         15         -90         0         11.5         14.5         3         2.74           AW59         BH         706650         6518460         95.2         16.5         -90         0         12         16.5         4.5         1.41         Yes           AW60         BH         706650         6518490         94.6         17.5         -90         0         14.5         17.5         3         1.5         Yes           AW62         BH         706680         6518460         94.5         15.5         -90         0         10.5         15.5         5         2.27         Yes           AW63         BH         706680         6518430         95.2         14.5         -90         0         10.5         14         3.5         1.3         Yes           AW64         BH         706620         6518430         96.6         18         -90         0         10.5         20         9.5         2.06         Yes           AW66         BH         706590         6518490         95.3         21         -90         0         16.5         21         5         0.7	AW55	ВН	706710	6518490	91.2	20	-90	0	12	20	8	2.1	Yes	
AW59         BH         706650         6518460         95.2         16.5         -90         0         12         16.5         4.5         1.41         Yes           AW60         BH         706650         6518490         94.6         17.5         -90         0         14.5         17.5         3         1.5         Yes           AW61         BH         706680         6518460         94.5         15.5         -90         0         12.5         17         4.5         1.34         Yes           AW62         BH         706680         6518430         95.2         14.5         -90         0         10.5         14         3.5         1.3           AW64         BH         706620         6518430         96.3         20         -90         0         10.5         20         9.5         2.06         Yes           AW65         BH         706590         6518430         96.6         18         -90         0         12.5         16.5         4         3.22           AW66         BH         706590         6518490         95.3         21         -90         0         16         19.5         3.5         3.2         1.8													Yes	
AW60         BH         706650         6518490         94.6         17.5         -90         0         14.5         17.5         3         1.5         Yes           AW61         BH         706680         6518490         93.8         17         -90         0         12.5         17         4.5         1.34         Yes           AW62         BH         706680         6518430         95.2         14.5         -90         0         10.5         15.5         5         2.27         Yes           AW64         BH         706620         6518430         96.3         20         -90         0         10.5         20         9.5         2.06         Yes           AW65         BH         706590         6518430         96.3         20         -90         0         12.5         16.5         4         3.22           AW66         BH         706590         6518460         95.9         20         -90         0         16.5         19.5         5         1.99           AW67         BH         706590         6518490         95.2         20         -90         0         16         19.5         3.5         3.2 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td><td>_</td><td></td><td></td><td></td></t<>								_			_			
AW61         BH         706680         6518490         93.8         17         -90         0         12.5         17         4.5         1.34         Yes           AW62         BH         706680         6518460         94.5         15.5         -90         0         10.5         15.5         5         2.27         Yes           AW63         BH         706680         6518430         95.2         14.5         -90         0         10.5         14         3.5         1.3           AW64         BH         706690         6518430         96.6         18         -90         0         10.5         20         9.5         2.06         Yes           AW65         BH         706590         6518430         96.6         18         -90         0         14.5         19.5         5         1.99           AW67         BH         706590         6518490         95.3         21         -90         0         16         21         5         0.7         Yes           AW69         DTH         706575         6518545         94.4         30         -90         0         19         28         9         0.75           AW70<								_						
AW62         BH         706680         6518460         94.5         15.5         -90         0         10.5         15.5         5         2.27         Yes           AW63         BH         706680         6518430         95.2         14.5         -90         0         10.5         14         3.5         1.3           AW64         BH         706620         6518430         96.3         20         -90         0         10.5         20         9.5         2.06           AW65         BH         706590         6518430         96.6         18         -90         0         12.5         16.5         4         3.22           AW66         BH         706590         6518490         95.3         21         -90         0         16         21         5         0.7         Yes           AW67         BH         706590         6518490         95.2         20         -90         0         16         21         5         0.7         Yes           AW76         DTH         706575         6518535         94.6         27         -90         0         18.5         24.5         6         0.54           AW72         DTH </td <td></td>														
AW63 BH 706680 6518430 95.2 14.5 -90 0 10.5 14 3.5 1.3  AW64 BH 706620 6518430 96.3 20 -90 0 10.5 20 9.5 2.06  AW65 BH 706590 6518430 96.6 18 -90 0 12.5 16.5 4 3.22  AW66 BH 706590 6518460 95.9 20 -90 0 14.5 19.5 5 1.99  AW67 BH 706590 6518490 95.3 21 -90 0 16 21 5 0.7  AW68 BH 706620 6518490 95.2 20 -90 0 16 21 5 0.7  AW69 DTH 706575 6518545 94.4 30 -90 0 19 28 9 0.75  AW70 DTH 706575 6518535 94.6 27 -90 0 18.5 24.5 6 0.54  AW71 DTH 706575 6518505 95.4 25 -90 0 16.5 21 4.5 1.54  AW72 DTH 706575 6518490 96.7 24 -90 0 16.5 21 4.5 1.54  AW73 DTH 706575 651845 96.4 19 -90 0 12 17.5 5.5 0.99  AW71 DTH 706575 651845 96.4 19 -90 0 11.5 15.5 4 0.6  AW70 DTH 706575 6518415 97 24 -90 0 11.5 15.5 4 0.6  AW70 DTH 706575 6518415 97 24 -90 0 11.5 15.5 4 0.6  AW78 DTH 706575 6518415 97 24 -90 0 10 14.5 15.5 5 1.82  AW79 DTH 706575 6518415 97 24 -90 0 10 14.5 15.5 5 1.82  AW79 DTH 706575 6518400 97.3 17 -90 0 10 14.5 4.5 1.82  AW81 DTH 706590 6518505 93.3 23 -90 0 17.5 23 5.5 0.64 Yes														
AW64         BH         706620         6518430         96.3         20         -90         0         10.5         20         9.5         2.06         Yes           AW65         BH         706590         6518430         96.6         18         -90         0         12.5         16.5         4         3.22           AW66         BH         706590         6518490         95.9         20         -90         0         16         21         5         0.7         Yes           AW68         BH         706620         6518490         95.2         20         -90         0         16         19.5         3.5         3.2           AW69         DTH         706575         6518545         94.4         30         -90         0         19         28         9         0.75           AW70         DTH         706575         6518535         94.6         27         -90         0         18.5         24.5         6         0.54           AW72         DTH         706575         6518505         95.4         25         -90         0         16.5         21         4.5         1.54           AW73         DTH         706575													103	
AW65         BH         706590         6518430         96.6         18         -90         0         12.5         16.5         4         3.22           AW66         BH         706590         6518460         95.9         20         -90         0         14.5         19.5         5         1.99           AW67         BH         706590         6518490         95.3         21         -90         0         16         21         5         0.7         Yes           AW68         BH         706620         6518490         95.2         20         -90         0         16         19.5         3.5         3.2           AW69         DTH         706575         6518545         94.4         30         -90         0         19         28         9         0.75           AW70         DTH         706575         6518535         94.6         27         -90         0         18.5         24.5         6         0.54           AW71         DTH         706575         6518505         95.4         25         -90         0         16.5         21         4.5         1.54           AW72         DTH         706575         651								_					Yes	
AW67       BH       706590       6518490       95.3       21       -90       0       16       21       5       0.7       Yes         AW68       BH       706620       6518490       95.2       20       -90       0       16       19.5       3.5       3.2         AW69       DTH       706575       6518545       94.4       30       -90       0       19       28       9       0.75         AW70       DTH       706575       6518535       94.6       27       -90       0       19       25.5       6.5       0.9         AW71       DTH       706575       6518520       95       27       -90       0       18.5       24.5       6       0.54         AW72       DTH       706575       6518490       96.7       24       -90       0       16.5       21       4.5       1.54         AW73       DTH       706575       6518490       96.7       24       -90       0       17       20       3       1.83         AW76       DTH       706575       6518430       96.7       25       -90       0       11.5       15.5       5       1.82														
AW68       BH       706620       6518490       95.2       20       -90       0       16       19.5       3.5       3.2         AW69       DTH       706575       6518545       94.4       30       -90       0       19       28       9       0.75         AW70       DTH       706575       6518535       94.6       27       -90       0       19       25.5       6.5       0.9         AW71       DTH       706575       6518520       95       27       -90       0       18.5       24.5       6       0.54         AW72       DTH       706575       6518505       95.4       25       -90       0       16.5       19.5       3.5       1.94         AW73       DTH       706575       6518490       96.7       24       -90       0       16.5       21       4.5       1.54         AW74       DTH       706575       6518445       96.4       19       -90       0       12       17.5       5.5       0.99         AW77       DTH       706575       6518415       97       24       -90       0       10.5       15.5       5       1.82	AW66	ВН	706590	6518460	95.9	20	-90	0	14.5	19.5	5	1.99		
AW69         DTH         706575         6518545         94.4         30         -90         0         19         28         9         0.75           AW70         DTH         706575         6518535         94.6         27         -90         0         19         25.5         6.5         0.9           AW71         DTH         706575         6518520         95         27         -90         0         18.5         24.5         6         0.54           AW72         DTH         706575         6518505         95.4         25         -90         0         16.5         21         4.5         1.54           AW73         DTH         706575         6518490         96.7         24         -90         0         16.5         21         4.5         1.54           AW74         DTH         706575         6518475         95.9         23         -90         0         17         20         3         1.83           AW76         DTH         706575         6518430         96.7         25         -90         0         11.5         15.5         4         0.6           AW78         DTH         706575         651840 <t< td=""><td>AW67</td><td>ВН</td><td>706590</td><td>6518490</td><td>95.3</td><td>21</td><td>-90</td><td>0</td><td>16</td><td>21</td><td>5</td><td>0.7</td><td>Yes</td><td></td></t<>	AW67	ВН	706590	6518490	95.3	21	-90	0	16	21	5	0.7	Yes	
AW70         DTH         706575         6518535         94.6         27         -90         0         19         25.5         6.5         0.9           AW71         DTH         706575         6518520         95         27         -90         0         18.5         24.5         6         0.54           AW72         DTH         706575         6518505         95.4         25         -90         0         16         19.5         3.5         1.94           AW73         DTH         706575         6518490         96.7         24         -90         0         16.5         21         4.5         1.54           AW74         DTH         706575         6518475         95.9         23         -90         0         17         20         3         1.83           AW76         DTH         706575         6518445         96.4         19         -90         0         12         17.5         5.5         0.99           AW77         DTH         706575         6518415         97         24         -90         0         10.5         15.5         5         1.82           AW79         DTH         706575         6518400														
AW71         DTH         706575         6518520         95         27         -90         0         18.5         24.5         6         0.54           AW72         DTH         706575         6518505         95.4         25         -90         0         16         19.5         3.5         1.94           AW73         DTH         706575         6518490         96.7         24         -90         0         16.5         21         4.5         1.54           AW74         DTH         706575         6518475         95.9         23         -90         0         17         20         3         1.83           AW76         DTH         706575         6518445         96.4         19         -90         0         12         17.5         5.5         0.99           AW77         DTH         706575         6518430         96.7         25         -90         0         10.5         15.5         4         0.6           AW78         DTH         706575         6518415         97         24         -90         0         10.5         15.5         5         1.82           AW81         DTH         706575         6518400								_						
AW72         DTH         706575         6518505         95.4         25         -90         0         16         19.5         3.5         1.94           AW73         DTH         706575         6518490         96.7         24         -90         0         16.5         21         4.5         1.54           AW74         DTH         706575         6518475         95.9         23         -90         0         17         20         3         1.83           AW76         DTH         706575         6518445         96.4         19         -90         0         12         17.5         5.5         0.99           AW77         DTH         706575         6518430         96.7         25         -90         0         11.5         15.5         4         0.6           AW78         DTH         706575         6518415         97         24         -90         0         10.5         15.5         5         1.82           AW79         DTH         706575         6518400         97.3         17         -90         0         10         14.5         4.5         1.82           AW81         DTH         706590         6518520								_						
AW73         DTH         706575         6518490         96.7         24         -90         0         16.5         21         4.5         1.54           AW74         DTH         706575         6518475         95.9         23         -90         0         17         20         3         1.83           AW76         DTH         706575         6518445         96.4         19         -90         0         12         17.5         5.5         0.99           AW77         DTH         706575         6518430         96.7         25         -90         0         11.5         15.5         4         0.6           AW78         DTH         706575         6518415         97         24         -90         0         10.5         15.5         5         1.82           AW79         DTH         706575         6518400         97.3         17         -90         0         10         14.5         4.5         1.82           AW81         DTH         706590         6518520         94.6         27         -90         0         19         25         6         0.87           AW82         DTH         706605         6518545														
AW74         DTH         706575         6518475         95.9         23         -90         0         17         20         3         1.83           AW76         DTH         706575         6518445         96.4         19         -90         0         12         17.5         5.5         0.99           AW77         DTH         706575         6518430         96.7         25         -90         0         11.5         15.5         4         0.6           AW78         DTH         706575         6518415         97         24         -90         0         10.5         15.5         5         1.82           AW79         DTH         706575         6518400         97.3         17         -90         0         10         14.5         4.5         1.82           AW81         DTH         706590         6518520         94.6         27         -90         0         19         25         6         0.87           AW82         DTH         706605         6518545         93.3         23         -90         0         17.5         23         5.5         0.64         Yes														
AW76         DTH         706575         6518445         96.4         19         -90         0         12         17.5         5.5         0.99           AW77         DTH         706575         6518430         96.7         25         -90         0         11.5         15.5         4         0.6           AW78         DTH         706575         6518415         97         24         -90         0         10.5         15.5         5         1.82           AW79         DTH         706575         6518400         97.3         17         -90         0         10         14.5         4.5         1.82           AW81         DTH         706590         6518520         94.6         27         -90         0         19         25         6         0.87           AW82         DTH         706605         6518545         93.3         23         -90         0         17.5         23         5.5         0.64         Yes								_						
AW77     DTH     706575     6518430     96.7     25     -90     0     11.5     15.5     4     0.6       AW78     DTH     706575     6518415     97     24     -90     0     10.5     15.5     5     1.82       AW79     DTH     706575     6518400     97.3     17     -90     0     10     14.5     4.5     1.82       AW81     DTH     706590     6518520     94.6     27     -90     0     19     25     6     0.87       AW82     DTH     706605     6518545     93.3     23     -90     0     17.5     23     5.5     0.64     Yes								_						
AW78         DTH         706575         6518415         97         24         -90         0         10.5         15.5         5         1.82           AW79         DTH         706575         6518400         97.3         17         -90         0         10         14.5         4.5         1.82           AW81         DTH         706590         6518520         94.6         27         -90         0         19         25         6         0.87           AW82         DTH         706605         6518545         93.3         23         -90         0         17.5         23         5.5         0.64         Yes														
AW79         DTH         706575         6518400         97.3         17         -90         0         10         14.5         4.5         1.82           AW81         DTH         706590         6518520         94.6         27         -90         0         19         25         6         0.87           AW82         DTH         706605         6518545         93.3         23         -90         0         17.5         23         5.5         0.64         Yes														
AW81         DTH         706590         6518520         94.6         27         -90         0         19         25         6         0.87           AW82         DTH         706605         6518545         93.3         23         -90         0         17.5         23         5.5         0.64         Yes														
		DTH			94.6	27	-90	0	19		6	0.87		
AW83 DTH 706605 6518535 93.5 24 -90 0 17.5 21 3.5 0.98	AW82	DTH	706605	6518545	93.3	23	-90	0	17.5	23	5.5	0.64	Yes	
	AW83	DTH	706605	6518535	93.5	24	-90	0	17.5	21	3.5	0.98		

Hole ID	Туре	EAST	NORTH	RL	Depth	Dip	Azi	From	То	Interval	Cu %	Hole ends in	Unmined
AW85	DTH	<b>GDA94z53</b> 706605	<b>GDA94z53</b> 6518505	95.1	26	-90	0	(m) 19.5	(m) 23	(m) 3.5	0.6	mineralisation	
AW86	DTH	706605	6518490	95.3	25	-90	0	16	25	9	0.55	Yes	
AW88	DTH	706605	6518460	95.8	25	-90	0	14	25	11	0.87	Yes	
AW89	DTH	706605	6518445	96.1	21	-90	0	12	19.5	7.5	1.12	.,	
AW90 AW91	DTH DTH	706605 706605	6518430 6518415	96.4 96.9	19 22	-90 -90	0	12 10.5	19 22	7 11.5	1.68	Yes Yes	
AW92	DTH	706605	6518400	97.3	19	-90	0	10.3	19	9	1.63	Yes	
AW93	DTH	706605	6518385	97.6	19	-90	0	11	19	8	1.31	Yes	
AW96	DTH	706635	6518545	92.9	31	-90	0	19.5	31	11.5	1.34	Yes	
AW97	DTH	706635	6518535	93.3	29	-90	0	18.5	29	10.5	1.49	Yes	
AW98	DTH	706635	6518520	94.2 94.7	28	-90 -90	0	16.5	27.5	11 4	1.17	Yes	
<b>AW99</b> AW100	DTH DTH	<b>706635</b> 706635	<b>6518505</b> 6518490	95	<b>20.5</b> 23	-90	0	<b>16.5</b> 14.5	<b>20.5</b> 22	7.5	<b>2.29</b> 0.58	res	
AW101	DTH	706635	6518475	95.2	24	-90	0	13.5	21	7.5	2.01		
AW102	DTH	706635	6518460	95.5	23	-90	0	13.5	19	5.5	0.66		
AW103	DTH	706635	6518445	95.7	17	-90	0	11.5	16	4.5	0.98		
AW104	DTH	706635	6518430	96.1	17	-90	0	10.5	16	5.5	1.92		
AW105 AW109	DTH DTH	706635 706650	6518415 6518520	96.5 94.1	15 23	-90 -90	0	8 16.5	12.5 23	4.5 6.5	1.64	Yes	
AW111	DTH	706665	6518520	93.5	23	-90	0	19	23	4	0.75	Yes	
AW112	DTH	706665	6518505	94	23	-90	0	14.5	22	7.5	0.79		
AW115	DTH	706665	6518460	94.9	17.5	-90	0	12.5	16	3.5	1.41		
AW116	DTH	706665	6518445	95.3	17	-90	0	10	15.5	5.5	1.03		
<b>AW117</b> AW118	DTH DTH	<b>706665</b> 706665	<b>6518430</b> 6518415	<b>95.7</b> 96.1	<b>15.5</b> 18.5	<b>-90</b>	0	<b>10.5</b> 9.5	<b>13</b> 14.5	<b>2.5</b> 5	<b>2.3</b> 0.57		
AW118 AW120	DTH	706680	6518415	96.1	23.5	-90	0	9.5	21.5	3.5	0.57		
AW121	DTH	706695	6518545	91.7	20.5	-90	0	16.5	19	2.5	0.69		
AW123	DTH	706695	6518520	92.6	21	-90	0	17	20	3	1.03		
AW125	DTH	706695	6518490	93	21	-90	0	12.5	20.5	8	1.36		
AW126	DTH	706695	6518503	93.4	19	-90	0	14	19	5	0.79	Yes	
AW127 AW128	DTH DTH	706695 706695	6518475 6518460	93.7 93.7	17 15	-90 -90	0	12.5 9.5	16.5 15	5.5	1.75 1.06	Yes	
AW128 AW129	DTH	706695	6518445	94.2	13	-90	0	7.5	11.5	4	3.02	res	
AW130	DTH	706695	6518430	94.3	13	-90	0	8	11.5	3.5	1.82		
AW132	DTH	706710	6518550	90.8	22	-90	0	15	21.5	6.5	2.03		
AW133	DTH	706710	6518520	91.7	21	-90	0	12.5	19	6.5	0.74		
AW134	DTH	706725	6518565	89	21	-90	0	14	20.5	6.5	0.71		
AW135 AW136	DTH DTH	706725 706725	6518550	89.3 89.5	17 17	-90 -90	0	11.5 11.5	16.5 15.5	5 4	0.63		
AW130	DTH	706725	6518535 6518520	89.8	18	-90	0	10.5	15.5	5	0.81		
AW138	DTH	706725	6518502	91	19	-90	0	11.5	19	7.5	1.25	Yes	
AW139	DTH	706725	6518490	91	16.5	-90	0	8.5	15.5	7	0.74		
AW140	DTH	706725	6518475	90.5	13	-90	0	8	11.5	3.5	1.36		
AW141	DTH	706725	6518460	90.5	13	-90	0	4	12	8	1.52		
<b>AW142</b> AW143	DTH DTH	<b>706725</b> 706725	<b>6518445</b> 6518430	<b>90.7</b> 91.1	<b>10</b>	<b>-90</b> -90	0	8	<b>9</b> 13	<b>5</b>	1.98 0.81	Yes	
AW143 AW144	DTH	706725	6518415	91.1	12	-90	0	8.5	12	3.5	0.81	Yes	Yes
AW145	DTH	706755	6518547	84.5	12	-90	0	8.5	11.5	3	0.97		. **
AW146	DTH	706755	6518535	84.9	12	-90	0	8.5	11.5	3	0.93		
AW148	DTH	706755	6518502	86.5	13	-90	0	6.5	11.5	5	1.26		
AW149	DTH	706755	6518490	86.5	10.5	-90	0	5	9	4	1.58	W	
AW150 AW151	DTH DTH	706755 706755	6518474 6518460	86.7 87.2	9.5 9.5	-90 -90	0	3.5 1	9.5 9	6 8	1.69	Yes	
AW151 AW152	DTH	706755	6518445	87.5	7.5	-90	0	0.5	7.5	7	1.01	Yes	
AW153	DTH	706755	6518430	87.9	8	-90	0	5.5	8	2.5	0.58	Yes	
AW155	DTH	706785	6518565	80.2	8	-90	0	3.5	8	4.5	0.92	Yes	
AW157	DTH	706785	6518535	81.7	11	-90	0	4	8	4	2.07		
AW158	DTH	706785	6518520	82.6	9	-90	0	4	7	3	2.03		
AW159 AW160	DTH DTH	706785 <b>706785</b>	6518505 <b>6518490</b>	84.1 <b>83.7</b>	11 10	-90 <b>-90</b>	0 <b>0</b>	4 0	9.5 <b>9</b>	5.5 <b>9</b>	0.61 <b>1.51</b>		
AW161	DTH	706785	6518473	83	6	-90	0	0	5.5	5.5	0.58		
AW162	DTH	706785	6518460	81.7	4	-90	0	0	4	4	0.84	Yes	
AW167	DTH	706815	6518550	79.4	8	-90	0	2	5.5	3.5	0.94		
AW168	DTH	706815	6518533	80.7	7	-90	0	1.5	4	2.5	1.3		
AW169	DTH	706817	6518520	80.9	6.5	-90	0	0	2.5	2.5	1.53		
<b>AW170</b> AW172	DTH DTH	<b>706815</b> 706815	<b>6518505</b> 6518475	<b>81.2</b> 81.2	<b>11</b> 5	<b>-90</b> -90	0	0	<b>6</b>	<b>6</b>	<b>1.37</b> 0.69		
AW172 AW173	DTH	706815 <b>706815</b>	6518475 6518460	81.2	6. <b>5</b>	-90 - <b>90</b>	0	0	4.5	4.5	2.18		
AW174	DTH	706815	6518445	83	11	-90	0	1	5.5	4.5	1.04		
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Hole ID	Туре	EAST	NORTH	RL	Depth	Dip	Azi	From	To	Interval	Cu %	Hole ends in	Unmined
AW176	DTH	<b>GDA94z53</b> 706830	<b>GDA94z53</b> 6518460	81.7	6	-90	0	<b>(m)</b>	(m) 3	(m) 3	1.05	mineralisation	
AW177	DTH	706845	6518550	79.2	9	-90	0	3.5	9	5.5	1.64	Yes	
AW178	DTH	706845	6518535	79.4	5.5	-90	0	1	4	3	1.34		
AW179	DTH	706845	6518520	80	8	-90	0	2	5	3	0.63		
AW186	DTH	706873	6518550	79.1	13	-90	0	5	7.5	2.5	0.59		
AW187	DTH	706875	6518500	79.8	6	-90	0	0	2.5	2.5	1.89		
AW188 AW189	DTH DTH	706875 706875	6518490 6518475	80.1 80.9	5 5	-90 -90	0	0	3	3	0.53 1.42		
AW195	DTH	706980	6518492	79.3	7	-90	0	3	7	4	0.57	Yes	
AW196	DTH	706965	6518490	79	4	-90	0	0.5	2.5	2	1.3	. 65	
AW199	DTH	706560	6518535	94.9	22	-90	0	18	20.5	2.5	1.16		
AW200	DTH	706560	6518520	95.2	23	-90	0	16.5	21	4.5	2.14		
AW201	DTH	706560	6518505	95.5	19	-90	0	15.5	18.5	3	1.46		
AW202	DTH	706560	6518490	95.8	20	-90	0	14	18.5	4.5	0.7		
AW203 AW204	DTH DTH	706560 <b>706560</b>	6518475 <b>6518460</b>	96 <b>96.2</b>	19 <b>17</b>	-90	0 <b>0</b>	13.5 <b>12.5</b>	16 <b>15.5</b>	2.5 <b>3</b>	1.9 <b>1.97</b>		
AW205	DTH	706560	6518445	96.4	17	-90	0	12.3	15.5	3.5	0.93		
AW206	DTH	706560	6518430	96.7	16	-90	0	12	14.5	2.5	1.25		
AW207	DTH	706560	6518415	97	16	-90	0	10.5	15	4.5	1.56		
AW209	DTH	706560	6518385	97.3	19	-90	0	16	18	2	0.8		Yes
AW211	DTH	706545	6518400	97.2	17	-90	0	13.5	15.5	2	0.5		Yes
AW213	DTH	706545	6518430	96.9	16	-90	0	11.5	14.5	3	2.46		
AW214	DTH	706545	6518445	96.5	17	-90	0	12.5	14.5	2	0.67		
AW215 AW216	DTH DTH	706545 <b>706545</b>	6518460 <b>6518475</b>	96.2 <b>95.9</b>	20 <b>21</b>	-90 <b>-90</b>	0 <b>0</b>	12.5 12	19.5 <b>19.5</b>	7 <b>7.5</b>	0.67 <b>1.05</b>		
AW217	DTH	706545	6518490	95.8	18	-90	0	14	17	3	1.03		
AW217	DTH	706545	6518505	95.6	19	-90	0	15.5	17.5	2	1.32		
AW219	DTH	706545	6518520	95.2	21	-90	0	16	20	4	1.88		
AW220	DTH	706545	6518535	94.9	21	-90	0	18	20	2	1.45		
AW221	DTH	706545	6518550	94.6	21	-90	0	18	20.5	2.5	3.34		
AW222	DTH	706605	6518370	97.9	19	-90	0	10	19	9	0.91	Yes	Yes
AW225	DTH	706530	6518445	96.3	18	-90	0	12.5	17	4.5	0.8		Yes
AW226 AW227	DTH DTH	706530 706530	6518460 6518475	96 95.7	16 17	-90 -90	0	11.5 13	15 16.5	3.5 3.5	2.2		
AW228	DTH	706530	6518490	95.5	19	-90	0	14.5	19	4.5	1.65	Yes	
AW230	DTH	706530	6518520	95	19	-90	0	16	19	3	0.82	Yes	
AW231	DTH	706530	6518535	94.8	21	-90	0	17	20.5	3.5	2.48		
AW232	DTH	706530	6518550	94.6	23	-90	0	20	22	2	2.54		
AW233	DTH	706530	6518565	94.3	23	-90	0	19.5	23	3.5	0.58	Yes	
AW234	DTH	706515	6518565	94	21	-90	0	18.5	21	2.5	0.9	Yes	
AW236 AW237	DTH DTH	706515 706545	6518535	94.7 94.3	23	-90 -90	0	18 17	20.5 19	2.5	2.12		
AW237 AW239	DTH	706545	<b>6518565</b> 6518545	93.6	21	-90	0	17.5	21	3.5	1.41	Yes	
AW240	DTH	706755	6518567	85	15	-90	0	9.5	13	3.5	0.96	163	
AW241	DTH	706515	6518520	94.9	21	-90	0	17.5	19.5	2	2.44		
AW242	DTH	706515	6518505	95	19	-90	0	15.5	18	2.5	0.82		
AW243	DTH	706515	6518490	95.2	18	-90	0	14	17	3	0.84		
AW244	DTH	706515	6518475	95.4	17	-90	0	12.5	16	3.5	2.41		
AW246	DTH	706545	6518580	93.9	22	-90	0	19	21	2	0.87		
AW250 AW251	DTH DTH	706935 <b>706965</b>	6518477 <b>6518518</b>	76.9 <b>78</b>	5 <b>8.5</b>	-90	<b>0</b>	0 <b>0</b>	2.5 <b>3.5</b>	2.5 <b>3.5</b>	1.3 2.24		
AW251 AW253	DTH	706965	6518518	<b>78</b>	13	-90 -90	0	1.5	4.5	3.5	1.27		
233	2.11	. 30303	0010000	. ,,		an		9	13	4	0.54	Yes	
AW254	DTH	706995	6518490	80.3	9	-90	0	1	3.5	2.5	1.97		
AW257	DTH	706605	6518355	98.3	17.5	-90	0	10.5	17.5	7	0.99	Yes	Yes
AW258	DTH	706605	6518340	98.5	16	-90	0	12	15	3	0.5		Yes
AW297	DTH	706515	6518235	99	18.5	-90	0	9	12	3	1.2		
AW299	DTH	706515	6518266	102	19	-90	0	10	15.5	5.5	0.83		
AW309	DTH	706455	6518265	92.6	8.5	-90 -90	0	3.5	12.5	4.5	0.74		
AW310 AW315	DTH DTH	706545 706515	6518236 6518140	101 97.9	16 17	-90 -90	0	10.5 9.5	13.5 11.5	2	1.17 0.97		
AW315	DTH	706485	6518142	96.2	13	-90	0	7	9.5	2.5	0.97		
AW318	DTH	706530	6518145	99.2	13.5	-90	0	10	12.5	2.5	1.39		
AW319	DTH	706515	6518130	97.4	12.5	-90	0	7.5	11.5	4	1.8		
AW320	DTH	706500	6518145	96.4	12	-90	0	6	9.5	3.5	0.69		
AW322	DTH	706440	6518265	90.4	6	-90	0	2	4	2	1.01		
AW330	DTH	706440	6518280	90.7	7	-90	0	3	6.5	3.5	0.68		
AW332	DTH	706440	6518250	91.9	11	-90	0	1	5	4	0.73		
AW333	DTH	706453	6518280	92.6	9	-90	0	3.5	6	2.5	0.79		l

Hole ID	Туре	EAST	NORTH	RL	Depth	Dip	Azi	From	То	Interval	Cu %	Hole ends in	Unmined
AM/226		GDA94z53	GDA94z53			•	0	(m)	(m)	(m)		mineralisation	
AW336 AW342	DTH DTH	706500 706533	6518280 6518250	99.8 101	14.5 13	-90 -90	0	11.5 10	14 12	2.5	0.9		Yes
AW345	DTH	706503	6518250	98.7	14	-90	0	10	12.5	2.5	0.69		163
AW346	DTH	706485	6518250	96.8	11	-90	0	7	10.5	3.5	1.44		
AW347	DTH	706470	6518265	95.1	10	-90	0	6.5	8.5	2	0.51		
AW348	DTH	706466	6518250	93.6	8	-90	0	4.5	6.5	2	1.01		
AW349	DTH	706500	6518235	97.8	12	-90	0	7	9.5	2.5	0.96		
AW350	DTH	706500	6518263	99.8	15	-90	0	10.5	13.5	3	0.81		
AW352	DTH	706517	6518248	99.8	13	-90	0	10	12	2	0.7	.,	
AW359	BH	706500	6518205	101	10.5	-90	0	8.5	10.5	2	1.7	Yes	
AW366 AW367	BH BH	706498 706500	6518190 6518160	102 99.4	15 12.5	-90 -90	0	9	15 12	3	0.76 1.24	Yes	
AW368	ВН	706515	6518160	101	14	-90	0	11.5	13.5	2	1.56		
AW378	BH	706395	6518280	89.2	6	-90	0	2	4	2	0.75		
AW381	DTH	706500	6518130	96.3	10	-90	0	7	9.5	2.5	0.71		Yes
AW385	ВН	706485	6518220	98.8	11	-90	0	7	10	3	0.58		
AW394	BH	706470	6518145	96.7	9	-90	0	6	8	2	2.05		
AW396	ВН	706470	6518175	99.9	12	-90	0	7.5	10.5	3	0.79		
AW397	BH	706470	6518205	101	13	-90	0	9	12	3	1.13		
AW399	BH	706470	6518220	97.9	10	-90	0	6	9	3	0.72		
AW406	BH	706455	6518208	98.2	11.5	-90	0	8 8.5	10	3	0.94		
AW408 AW409	BH BH	706470 706440	6518235 6518160	95.8 94.5	13 10	-90 -90	0	6.5	11.5 9	2.5	0.54 1.61		Yes
AW410	BH	706440 706440	6518190	97.5	10	-90	0	6	10	4	1.93	Yes	163
AW436	DTH	706260	6518250	90.2	7	-90	0	2	6	4	1.93	. 55	
AW437	DTH	706260	6518220	91.8	5	-90	0	2	4.5	2.5	0.86		
AW440	DTH	706290	6518220	91.4	5	-90	0	1.5	4.5	3	2.12		
AW460	DTH	706305	6518220	91.5	4	-90	0	2	4	2	0.63	Yes	Yes
AW465	DTH	706290	6518205	91.1	4	-90	0	1	3.5	2.5	1.11		
AW466	DTH	706290	6518235	91.3	8.5	-90	0	2	7.5	5.5	1.15		
AW467	DTH	706275	6518265	90.5	6.5	-90	0	1.5	5.5	4	0.84		
AW468	DTH	706275	6518250	89.9	8	-90	0	1.5	7	5.5	1.31		
AW469 AW470	DTH DTH	706275 706275	6518235 6518220	91.1	11 7	-90 -90	0	2.5	8 4.5	5.5 2.5	0.78 1.64		
AW471	DTH	706275	6518205	91.4	6.5	-90	0	2	5.5	3.5	1.31		
AW472	DTH	706275	6518190	92.4	5	-90	0	2	4	2	0.74		
AW475	DTH	706260	6518205	91.8	7	-90	0	2	5	3	0.72		
AW476	DTH	706260	6518235	91.2	11	-90	0	2.5	8.5	6	0.77		
AW477	DTH	706260	6518265	91.5	11	-90	0	7	11	4	1.35	Yes	
AW479	DTH	706245	6518235	91.1	9	-90	0	2.5	9	6.5	1.8	Yes	
AW490	BH	706440	6518205	96.8	10	-90	0	6.5	10	3.5	1.36	Yes	
AW492	BH	706410	6518205	93.4	8.5	-90	0	6.5	8.5	2	1.46	Yes	
AW493 AW498	BH <b>DTH</b>	706425 <b>706260</b>	6518220 <b>6518280</b>	93.5 <b>93.9</b>	8.5 <b>15.5</b>	-90 <b>-90</b>	0 <b>0</b>	6 <b>8.5</b>	8 <b>15</b>	2 <b>6.5</b>	0.98 <b>0.85</b>		
AW500	DTH	706275	6518295	93	10	-90	0	5	8.5	3.5	0.64		
AW504	DTH	706245	6518295	94.9	15	-90	0	11.5	13.5	2	1.19		
AW506	DTH	706245	6518310	97.4	16	-90	0	11	14.5	3.5	0.77		
ME03	RC	706455	6518355	97.2	13.5	-90	0	10	13.5	3.5	0.75	Yes	
ME04	RC	706455	6518385	96.3	13	-90	0	10	12	2	0.77		
ME05	RC	706455	6518415	96.1	13.5	-90	0	11.5	13.5	2	0.79	Yes	
ME08	RC	706485	6518445	94.5	13	-90	0	11	13	2	2.08	Yes	
ME12 ME15	RC RC	706423 706425	6518385 6518475	98.4 95.5	16.5 17	-90 -90	0	13.5 14.5	16.5 17	3 2.5	1.28 0.62	Yes Yes	
ME16	RC	706425	6518505	93.5	18	-90	0	16	18	2.5	1.67	Yes	
ME18	RC	706395	6518505	94.7	20	-90	0	15.5	20	4.5	1.31	Yes	
ME19	RC	706395	6518475	95.7	18.5	-90	0	16	18.5	2.5	1.01	Yes	
ME24	RC	706395	6518325	98.6	14.5	-90	0	12.5	14.5	2	0.64	Yes	
ME25	RC	706365	6518325	98.7	15.5	-90	0	13	15.5	2.5	0.85	Yes	
ME28	RC	706335	6518355	98.9	16.5	-90	0	14	16	2	2.14		
ME29	RC	706305	6518355	99.3	17.5	-90	0	15	17.5	2.5	1.51	Yes	
ME32	RC	706365	6518505	95.9	19	-90	0	16.5	19	2.5	1.53	Yes	
ME39 ME44	BH BH	706265 706260	6518370 6518370	94.4	16.5 14.5	-90 -90	0	14 11	16.5 13.5	2.5	0.73	Yes	
ME45	ВН	706260	6518370	94.9	14.5	-90	0	9.5	12.5	3	0.5		
ME46	BH	706260	6518340	97	14.5	-90	0	11	14	3	1.11		
ME47	BH	706245	6518340	97.6	16.5	-90	0	12.5	16	3.5	1		
ME48	ВН	706245	6518355	96.2	14.5	-90	0	11.5	14.5	3	0.6	Yes	
ME49	ВН	706245	6518370	95.3	16	-90	0	11.5	13.5	2	0.63		
ME51	BH	706245	6518385	94.3	17.5	-90	0	11	16.5	5.5	0.66		

Hole ID	Туре	EAST GDA94z53	NORTH GDA94z53	RL	Depth	Dip	Azi	From (m)	To (m)	Interval (m)	Cu %	Hole ends in mineralisation	Unmined
ME54	BH	706275	6518400	93.5	17.5	-90	0	12	15.5	3.5	0.84		
ME57	BH	706230	6518415	93.1	17.5	-90	0	11.5	17	5.5	0.55		
ME58	BH	706230	6518400	94.5	16	-90	0	10	13	3	0.61		
ME59	BH	706230	6518385	95.5	16.5	-90	0	10	14	4	1.05		
ME60	BH	706230	6518370	95.2	17.5	-90	0	9.5	16.5	7	0.6		
ME62	DTH	706380	6518340	87.8	9	-90	0	2	8	6	1.03		
ME63	DTH	706380	6518355	88.9	9	-90	0	2.5	8	5.5	1.08		
ME64	DTH	706395	6518340	88.1	7	-90	0	2.5	4.5	2	0.99		
ME65	DTH	706410	6518340	88.4	7	-90	0	1.5	5.5	4	0.58		
ME67	DTH	706365	6518340	88.9	11	-90	0	2	11	9	1.43	Yes	
ME69	DTH	706350	6518370	87.9	9	-90	0	2.5	7.5	5	0.67		
ME70	DTH	706350	6518365	87.8	9	-90	0	2.5	4.5	2	0.61		
ME71	DTH	706350	6518340	88.5	12	-90	0	2	10	8	0.75		
ME72	DTH	706350	6518325	88.9	11	-90	0	3.5	9	5.5	1.11		
ME73	DTH	706350	6518310	89.2	10	-90	0	3.5	8	4.5	0.64		
ME74	DTH	706335	6518313	89	9	-90	0	2.5	6.5	4	0.6		
ME75	DTH	706335	6518325	88.9	8	-90	0	2.5	6.5	4	1.17		
ME76	DTH	706335	6518340	88.5	9	-90	0	2.5	4.5	2	1.57		
ME79	DTH	706320	6518355	88.8	10	-90	0	2.5	7.5	5	1.06		
ME80	DTH	706320	6518370	88.4	7.5	-90	0	3.5	7	3.5	0.96		
ME81	DTH	706305	6518370	89.1	9	-90	0	3.5	8	4.5	0.5		
ME82	DTH	706290	6518370	89.9	10	-90	0	4	9	5	1.13		
ME83	DTH	706290	6518355	89.2	9	-90	0	6.5	8.5	2	0.78		
ME84	DTH	706305	6518340	89.2	9	-90	0	2.5	7.5	5	0.7		
ME98	ВН	706245	6518265	85	7	-90	0	2.5	6.5	4	1.52		
ME99	BH	706200	6518289	84	5.5	-90	0	0	4.5	4.5	2.87		
PL05	DTH	706230	6518250	91.2	9	-90	0	3.5	7.5	4	0.56		
PL06	BH	706200	6518280	94.8	14	-90	0	9	13.5	4.5	0.83		
PL08	BH	706140	6518280	96.5	12.5	-90	0	9	11.5	2.5	0.78		
PL17	DTH	706140	6518370	91.8	11	-90	0	8	10.5	2.5	0.55		Yes
PL22	DTH	706200	6518430	91.6	13	-90	0	10	12	2	0.58		
PL26	DTH	706020	6518220	104	29	-90	0	19.5	25.5	6	0.58		Yes
PL30	BH	706155	6518280	97.6	14.5	-90	0	9.5	14.5	5	1.75	Yes	
PL31	BH	706125	6518280	96.2	13.5	-90	0	9	13.5	4.5	0.75	Yes	
PL32	ВН	706140	6518295	95.6	16	-90	0	7.5	13.5	6	1.21		
PL33	BH	706245	6518250	90.6	8	-90	0	6	8	2	1.01	Yes	
PL37	BH	706215	6518250	92.2	8	-90	0	5	7	2	1.14		
PL46	DTH	706215	6518265	92.9	8	-90	0	5.5	7.5	2	2.58		
PL47	DTH	706200	6518265	93.5	9	-90	0	6	9	3	3.43	Yes	
PL51	DTH	706170	6518265	96.5	13	-90	0	11	13	2	1.23	Yes	
PL52	DTH	706155	6518265	97.9	14.5	-90	0	12.5	14.5	2	1.27	Yes	
PL53	DTH	706125	6518265	97.3	14.5	-90	0	11	14.5	3.5	1.44	Yes	
PL55	DTH	706115	6518280	95.4	14	-90	0	8.5	12.5	4	0.65		
PL63	DTH	706125	6518250	98.5	17	-90	0	13	15.5	2.5	0.65		
PL70	DTH	706185	6518295	98.1	15	-90	0	10.5	12.5	2	0.92		
						Н	OUSE						

						Н	DUSE						
HE1	DTH	707629	6518331	74.6	25	-90	0	10	25	15	1.07	Yes	
HE15	BH	707789	6518291	75.6	17.5	-90	0	11.5	17.5	6	0.83	Yes	
HE25	DTH	707669	6518291	74.5	17	-90	0	9.5	12	2.5	0.64		Yes
HE27	DTH	707669	6518331	73.7	15	-90	0	10	15	5	0.54	Yes	Yes
HE32	DTH	707589	6518371	76.2	16.5	-90	0	8.5	16.5	8	0.81	Yes	
HE33	BH	707749	6518331	74	14.5	-90	0	10	14.5	4.5	0.89	Yes	
HE34	BH	707789	6518331	72.5	14.5	-90	0	5	11.5	6.5	1.06		
HE45	BH	707749	6518211	77.4	14.5	-90	0	12	14.5	2.5	0.5	Yes	Yes
HE46	RAB	707709	6518371	73	12	-90	0	5	12	7	0.8	Yes	
HE47	RAB	707749	6518371	71.9	9	-90	0	4.5	9	4.5	8.38	Yes	
HE48	RAB	707789	6518371	72.3	10.5	-90	0	6	9	3	0.72		
HE50	RAB	707729	6518391	72	10	-90	0	4.5	9.5	5	1.93		
HE51	RAB	707749	6518391	72.1	12	-90	0	4.5	8	3.5	0.95		
HE52	RAB	707769	6518391	72.2	10	-90	0	3	7.5	4.5	1.39		
HE54	RAB	707709	6518391	72	8	-90	0	6	8	2	0.69	Yes	
HE55	RAB	707729	6518351	73.2	15	-90	0	8.5	12.5	4	0.56		
HE56	RAB	707749	6518351	72.1	15	-90	0	5.5	13.5	8	1.96		
HE57	RAB	707729	6518331	73.8	13	-90	0	10	13	3	1.35	Yes	
HE58	RAB	707729	6518371	72.9	8.5	-90	0	5	8.5	3.5	1.29	Yes	
HE59	RAB	707769	6518371	72.6	11.5	-90	0	5	11.5	6.5	1.39	Yes	
HE60	RAB	707769	6518351	72	15	-90	0	4.5	14	9.5	1.24		
HE61	RAB	707809	6518351	72.7	9	-90	0	4.5	9	4.5	2.61	Yes	

Hole ID	Туре	EAST	NORTH	RL	Depth	Dip	Azi	From	То	Interval	Cu %	Hole ends in	Unmined
		GDA94z53	GDA94z53			•		(m)	(m)	(m)		mineralisation	Ommica
HE63 HE64	RAB RAB	707689 707709	6518411 6518411	73.7 73.1	11 11	-90 -90	0	7.5 5.5	10 9	2.5 3.5	0.69 1.02		
HE65	RAB	707749	6518411	72.2	11	-90	0	3.3	7	4	0.61		
HE71	RAB	707789	6518351	72.2	9	-90	0	4.5	8.5	4	1.65		
HE72	RAB	707649	6518351	74.1	22.5	-90	0	9.5	15	5.5	0.79		
HE73	RAB	707629	6518351	74.6	18	-90	0	10	14.5	4.5	1.31		
HE75	RAB	707609	6518351	75.2	18	-90	0	8	18	10	0.74	Yes	
HE79	RAB	707689	6518351	73.1	16	-90 -90	0	9.5	13.5	4	0.6		
HE83	RAB RAB	707569 <b>707669</b>	6518371 <b>6518311</b>	76.2 <b>73.7</b>	15 <b>15</b>	-90 - <b>90</b>	0	8.5 <b>9</b>	14.5 <b>15</b>	6 <b>6</b>	0.72 <b>1.32</b>	Yes	
HE93	BH	707769	6518331	73.4	15	-90	0	10.5	13	2.5	1.01	163	
HE96	ВН	707789	6518311	73.3	15	-90	0	9	11.5	2.5	0.5		
HE97	ВН	707769	6518311	75	15	-90	0	12	15	3	1.09	Yes	
HE98	ВН	707749	6518311	75.2	15	-90	0	12	15	3	0.59	Yes	
HE99	BH	707769	6518291	76.1	15	-90	0	11	13	2	0.54		
HE105	DTH	707659	6518351	74.3	20	-90	0	8.5	10.5	2	1.39		
HE106 HE108	DTH DTH	707639 707699	6518351 6518351	74.8 73	20 15	-90 -90	0	10 8.5	15 12	5 3.5	0.88 1.05		
HE108	DTH	707099	6518351	73.3	15	-90	0	9.5	13.5	4	0.54		
HE111	DTH	707759	6518351	73.1	16	-90	0	5.5	15.5	10	1.83		
HE112	DTH	707779	6518351	73	15	-90	0	5	15	10	1.41	Yes	
HE113	DTH	707799	6518351	72.7	11	-90	0	4	11	7	3.23	Yes	
HE115	DTH	707779	6518371	72.5	11	-90	0	6	10.5	4.5	0.51		
HE116	DTH	707759	6518371	72.7	11.5	-90	0	4.5	11.5	7	1.66	Yes	
HE117	DTH	707739	6518371	72.2	13	-90	0	4.5	13	8.5	1.92	Yes	
HE118 HE119	DTH DTH	707719 707699	6518371 6518371	73.1 73.6	13 13	-90 -90	0	5.5 6.5	12.5 13	7 6.5	1.87	Yes	
HE113	DTH	707599	6518371	76.2	18	-90	0	12.5	18	5.5	0.89	Yes	
HE124	DTH	707699	6518391	73.8	10	-90	0	5	10	5.5	0.6	Yes	
HE125	DTH	707719	6518391	73.1	10	-90	0	4.5	10	5.5	1.21	Yes	
HE126	DTH	707739	6518391	72.9	12	-90	0	4	9.5	5.5	0.9		
HE127	DTH	707759	6518391	71.9	10	-90	0	3	7	4	0.92		
HE128	DTH	707779	6518391	72.9	10	-90	0	4.5	8.5	4	0.58		
HE130	DTH	707719	6518411	73.1	10	-90	0	5	9.5	4.5	1.06		
HE133 HE135	DTH DTH	707659 707719	6518331 6518331	73.8 73.6	16 15	-90 -90	0	11 10.5	14 13.5	3	0.54		
HE136	DTH	707719	6518331	73.0	15	-90	0	9.5	15.5	5.5	0.82	Yes	
HE137	DTH	707599	6518351	75.8	20	-90	0	7.5	20	12.5	0.63	Yes	
HE138	DTH	707679	6518311	74.2	15	-90	0	10	15	5	0.73	Yes	
HE139	DTH	707659	6518311	74.1	17	-90	0	10	17	7	1.14	Yes	
HE140	DTH	707619	6518331	75.1	30	-90	0	12	23.5	11.5	0.73		
HW3	DTH	707529	6518492	74.8	9.5	-90	0	1.5	6	4.5	0.78		Yes
HW14	DTH	707490	6518472	72.2	4	-90	0	1	4	3	1.08	Yes	Yes
HW15 HW16	DTH DTH	707489 707489	6518492 6518512	71.6	3 6	-90 -90	0	0.5 1.5	2.5 6	2 4.5	0.73 0.76	Voc	
HW17	DTH	707489	6518534	71.4 72.9	7.5	-90	0	5.5	7.5	2	0.76	Yes Yes	Yes
HW21	DTH	707469	6518512	73.7	7.5	-90	0	5.5	7.3	2	1.08	Yes	Yes
HW22	DTH	707469	6518492	73.9	7.5	-90	0	1	7.5	6.5	0.76	Yes	Yes
HW24	DTH	707549	6518472	75	9	-90	0	7	9	2	1.22	Yes	
HW25	DTH	707557	6518494	74.8	9.5	-90	0	4.5	9.5	5	4.94	Yes	
HW28	DTH	707569	6518492	74.7	11	-90	0	6	11	5	1.23	Yes	
HW43	RAB	707483	6518482	74.5	4.5	-90	0	0.5	4.5	4 2 F	0.82	Yes	Yes
HW131 HW132	DTH DTH	707342 707321	6518602 6518602	73 73	6.5 6.5	-90 -90	0	3	6.5 6.5	3.5 3.5	0.84	Yes Yes	Yes Yes
HW134	DTH	707321	6518502	73	6.5	-90 -90	0	3.5	6.5	2.5	0.83	162	Yes
HW137	DTH	707459	6518512	71.3	6	-90	0	3.3	6	3	0.84	Yes	Yes
HW138	DTH	707469	6518542	74.3	6	-90	0	2.5	4.5	2	0.59		Yes
HW140	DTH	707479	6518532	73.1	7	-90	0	3.5	6	2.5	1.62		
HW153	DTH	707494	6518482	71.6	5	-90	0	0	5	5	0.77	Yes	
HW154	DTH	707496	6518472	74	5	-90	0	1	5	4	1.95	Yes	
HW155	DTH	707499	6518524	72.3	6	-90	0	0	2	2	1.28		Yes
HW156	DTH DTH	707479 <b>707479</b>	6518494 <b>6518472</b>	73.6 <b>71.1</b>	7.5 <b>8.5</b>	-90	0 <b>0</b>	0 <b>0</b>	2.5 <b>8.5</b>	2.5 <b>8.5</b>	1.14 <b>0.75</b>	Yes	Yes
HW157	DTH	707479	6518472	73.4	8.5	-90 -90	0	3.5	8.5	4.5	1.12	Yes	Yes
HW173	DTH	707459	6518522	73.5	8	-90	0	5	7.5	2.5	0.54		Yes
HW186	DTH	707539	6518502	75	6	-90	0	4	6	2	1.84	Yes	
HW189	DTH	707449	6518552	73.1	8	-90	0	5	7	2	0.73		Yes
HW196	DTH	707439	6518542	73.1	7	-90	0	2.5	7	4.5	1.33	Yes	
HW199	DTH	707449	6518562	72.7	8	-90	0	5.5	7.5	2	1		

Hole ID	Туре	EAST GDA94z53	NORTH GDA94z53	RL	Depth	Dip	Azi	From (m)	To (m)	Interval (m)	Cu %	Hole ends in mineralisation	Unmined
HW200	DTH	707429	6518542	73.4	5.5	-90	0	3.5	5.5	2	0.8	Yes	Yes
HW202	DTH	707429	6518562	72.8	8	-90	0	5.5	8	2.5	1.15	Yes	
HW212	DTH	707419	6518562	72.3	8	-90	0	3	6.5	3.5	1.01		
HW220	DTH	707399	6518562	72.1	6	-90	0	3.5	5.5	2	0.6		Yes

						CAR	RIAG	E				
RC9	DTH	706559	6517945	103	15	-90	0	11.5	14	2.5	1.42	Yes
RC19	DTH	706529	6517975	102	19	-90	0	10.5	16	5.5	1.07	Yes
RC30	DTH	706559	6517960	102	16.5	-90	0	11.5	14.5	3	1.38	Yes
RC37	DTH	706529	6517990	101	16	-90	0	12.5	14.5	2	0.95	Yes

						COR	E SHE	D				
CS1	DTH	706959	6519512	75.3	6	-90	0	0	4.5	4.5	1.12	
CS4	DTH	706959	6519482	72.8	3.5	-90	0	0	3.5	3.5	1.07	Yes
CS5	DTH	707109	6519512	79.8	10	-90	0	6.5	10	3.5	0.86	Yes
CS15	DTH	706959	6519542	77.5	10.5	-90	0	3	6.5	3.5	2.17	
CS26	DTH	706944	6519482	72.3	4.5	-90	0	1	3.5	2.5	0.94	
CS27	DTH	706959	6519482	72.8	4	-90	0	1	4	3	0.67	Yes
CS28	DTH	706974	6519482	72.7	4	-90	0	1.5	3.5	2	0.62	
CS37	DTH	706959	6519512	75.2	5	-90	0	2	4	2	1.7	
CS56	DTH	706929	6519542	76.9	5	-90	0	2	5	3	2.11	Yes
CS58	DTH	706959	6519527	76.5	5	-90	0	1.5	4.5	3	1.61	
CS61	DTH	707109	6519527	81.6	10.5	-90	0	8.5	10.5	2	0.81	Yes
CS67	DTH	707104	6519482	76.6	6	-90	0	3	5.5	2.5	1.28	
CS69	DTH	706959	6519497	74.3	4	-90	0	1.5	4	2.5	1.01	Yes
CS71	DTH	706929	6519482	72	4	-90	0	1	4	3	0.75	Yes
CS85	DTH	706974	6519572	81.2	8.5	-90	0	6.5	8.5	2	0.71	Yes
CS86	DTH	707094	6519527	81.2	12	-90	0	9.5	11.5	2	0.9	
CS88	DTH	707109	6519467	76.2	6	-90	0	3	5.5	2.5	0.52	
CS91	DTH	706989	6519467	72.2	6	-90	0	2	5	3	0.63	
CS95	DTH	706929	6519466	71.6	5	-90	0	2.5	5	2.5	0.78	Yes
CS105	DTH	707079	6519452	74.6	6	-90	0	4	6	2	0.61	Yes
CS106	DTH	707094	6519452	74.8	6	-90	0	4	6	2	0.89	Yes
CS107	DTH	707109	6519452	75	7	-90	0	4	6	2	2.34	
CS109	DTH	707124	6519467	76.3	6	-90	0	3	6	3	1.02	Yes
CS124	DTH	707139	6519452	75.7	8	-90	0	5	7.5	2.5	1.13	

Additional Unmined Cu Intercepts <2m width but >= 0.5 m and >= 0.5 % Cu (i.e. lower tenor 'open' mineralisation, forming exploration targets)

Hole ID	Туре	EAST GDA94z53	NORTH GDA94z53	RL	Depth	Dip	Azi	From (m)	To (m)	Interval (m)	Cu %	Hole ends in mineralisation
					M	AIN OPE	N CUT					
AW19	ВН	706800	6518415	85	6	-90	0	3	4.5	1.5	0.7	
AW212	DTH	706545	6518415	97.1	17	-90	0	12	13	1	0.79	
AW223	DTH	706530	6518430	96.6	17	-90	0	13	14	1	0.6	
AW224	DTH	706515	6518445	95.6	17	-90	0	13	14	1	0.8	
AW245	DTH	706515	6518460	95.5	16	-90	0	13	14.5	1.5	0.62	
AW256	DTH	706845	6518430	84.1	5	-90	0	0	0.5	0.5	0.56	
AW258	DTH	706605	6518340	98.5	16	-90	0	12	15	3	0.5	
AW296	DTH	706545	6518265	103	14.5	-90	0	11.5	12.5	1	1.01	
AW325	DTH	706380	6518280	88.5	5	-90	0	1.5	3	1.5	0.98	
AW338	DTH	706530	6518265	103	15	-90	0	11	12.5	1.5	0.69	
AW353	DTH	706530	6518235	100	13	-90	0	10	11.5	1.5	0.55	
AW362	ВН	706544	6518205	103	14.5	-90	0	13	13.5	0.5	2.7	
AW371	DTH	706545	6518175	104	15.5	-90	0	14	15	1	0.63	
AW372	DTH	706530	6518175	103	14.5	-90	0	13.5	14	0.5	0.72	
AW377	DTH	706395	6518265	89.5	4	-90	0	1.5	2.5	1	0.94	
AW400	ВН	706455	6518130	94.4	8	-90	0	4.5	6	1.5	1.49	
AW433	DTH	706260	6518130	92.9	5	-90	0	2	3	1	0.99	
AW458	DTH	706470	6518130	94.7	7	-90	0	6	7	1	0.72	Yes
AW495	BH	706395	6518220	90.3	6	-90	0	3	3.5	0.5	0.79	
ME31	RC	706365	6518475	96.5	19	-90	0	18	18.5	0.5	1.04	
ME34	RC	706335	6518490	92.6	17	-90	0	15	15.5	0.5	0.52	
PL35	ВН	706230	6518175	91.9	6	-90	0	2	3	1	0.62	

Hole ID	Туре	EAST GDA94z53	NORTH GDA94z53	RL	Depth	Dip	Azi	From (m)	To (m)	Interval (m)	Cu %	Hole ends in mineralisation
PL62	DTH	706110	6518250	97.9	15	-90	0	12.5	13	0.5	1.43	
						HOUS	E					
HE16	BH	707829	6518291	73.4	17.5	-90	0	11	12.5	1.5	0.62	
HE29	DTH	707909	6518331	72.3	8	-90	0	2	2.5	0.5	0.77	
HE67	RAB	707709	6518431	73	11	-90	0	8	9.5	1.5	0.59	
HE77	RAB	707609	6518371	75.6	17	-90	0	13	13.5	0.5	0.64	
HW4	DTH	707529	6518512	73.9	9	-90	0	8	8.5	0.5	0.5	
HW11	DTH	707509	6518471	75.7	11	-90	0	7.5	9	1.5	0.81	
HW28	DTH	707569	6518492	74.7	11	-90	0	2.5	3	0.5	1.97	
HW37	RAB	707549	6518502	74.9	9	-90	0	5	6	1	0.75	
HW133	DTH	707319	6518592	73	7	-90	0	6	7	1	2.14	Yes
HW158	DTH	707519	6518492	73.8	5	-90	0	1	2.5	1.5	1	
HW159	DTH	707519	6518482	75.3	6	-90	0	2	2.5	0.5	0.56	
HW171	DTH	707459	6518542	73.3	7	-90	0	5.5	7	1.5	0.69	Yes
HW186	DTH	707539	6518502	75	6	-90	0	0.5	1.5	1	0.54	
HW192	DTH	707509	6518522	72.3	6	-90	0	0	0.5	0.5	0.8	
HW198	DTH	707439	6518562	72.8	6.5	-90	0	6	6.5	0.5	0.56	Yes
HW210	DTH	707419	6518542	72.9	8	-90	0	4	5.5	1.5	0.73	
HW214	DTH	707409	6518532	72.9	6	-90	0	4	5.5	1.5	0.54	
	CARRIAGE											
RC1	DTH	706514	6517825	102	16	-90	0	13.5	14	0.5	0.96	
RC3	DTH	706514	6517945	102	15	-90	0	11	11.5	0.5	1.26	
RC7	DTH	706559	6518066	99.4	15	-90	0	13	14	1	1.34	
RC28	DTH	706574	6517945	102	16	-90	0	12	13.5	1.5	2.68	
RC35	DTH	706544	6517975	102	16	-90	0	12	13	1	1.61	

13.5

14

0.5

0.81

0

20

-90

100

RC49

DTH

706729

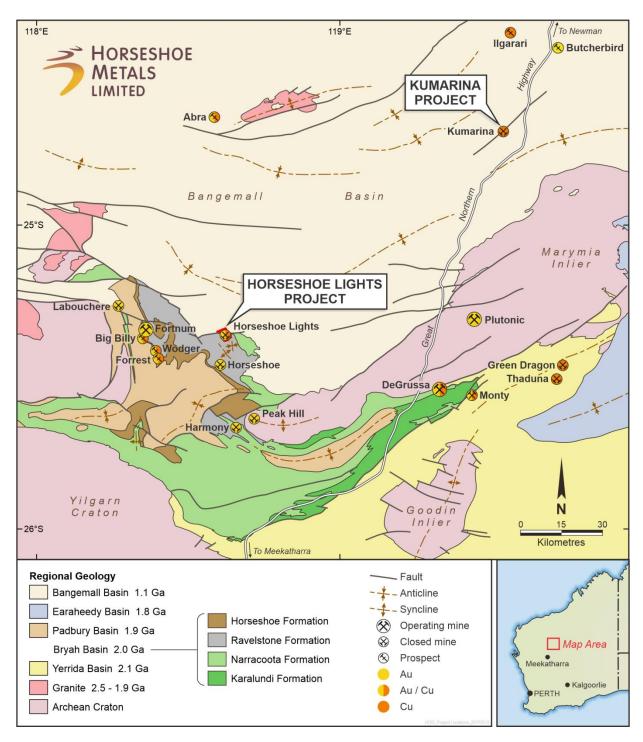
6517900

#### **About Horseshoe Metals Limited**

Horseshoe Metals Limited (ASX:HOR) is a copper and gold focused Company with a package of tenements covering approximately 500km<sup>2</sup> in the highly prospective Peak Hill Mineral Field, located north of Meekatharra in Western Australia. The Company manages the Horseshoe Lights Project and the Kumarina Project.

#### About the Horseshoe Lights Project

The Horseshoe Lights Project includes the historic open pit of the Horseshoe Lights copper-gold mine which operated up until 1994, producing over 300,000 ounces of gold and 54,000 tonnes of contained copper including over 110,000 tonnes of Direct Shipping Ore (DSO) which graded between 20-30% copper.



The Horseshoe Lights ore body is interpreted as a deformed Volcanogenic Hosted Massive Sulphide (VMS) deposit that has undergone supergene alteration to generate the gold-enriched and copper-depleted cap that was the target of initial mining. The deposit is hosted by quartz-sericite and quartz-chlorite schists of the Lower Proterozoic Narracoota Formation.

Past mining was focused on the Main Zone, a series of lensoid ore zones, which passed with depth from a gold-rich oxide zone through zones of high-grade chalcocite mineralisation into massive pyrite-chalcopyrite. To the west and east of the Main Zone, copper mineralisation in the Northwest Stringer Zone and Motters Zone consists of veins and disseminations of chalcopyrite and pyrite and their upper oxide copper extensions.

Table 3 below summarises the total Mineral Resources for the Horseshoe Lights Project as at 30 December 2019.

	TABLE 3 HORSESHOE LIGHTS PROJECT SUMMARY OF MINERAL RESOURCES AS AT 30 December 2019							
Location	Category	Tonnes (Mt)	Cu (%)	Au (g/t)	Ag (g/t)	Cu metal (tonnes)	Au metal (oz)	Ag metal (k oz)
In-situ	Measured	1.73	1.04	0.0	0.5	18,000	1,900	28.8
Deposit	Indicated	2.43	0.95	0.0	0.7	23,200	3,400	52.2
(0.5% Cu	Inferred	8.69	1.01	0.1	2.6	87,400	30,700	712.4
cut-off grade)	Total	12.85	1.00	0.1	1.9	128,600	36,000	793.4
Flotation Tailings	Inferred	1.421	0.48	0.34	6.5	6,800	15,300	294.8
M15 Stockpiles	Inferred	0.243	1.10	0.17	4.7	2,650	1,300	36.7
	Note: At 0% Cu cut-off grade unless otherwise stated					138,050	52,600	1,124.9

These Mineral Resource Estimates meet the reporting requirements of the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves".

#### About the Kumarina Project

The copper deposits at the Kumarina Project were discovered in 1913 and worked intermittently until 1973. The workings extend over nearly 5km as a series of pits, shafts and shallow open cuts. At the main Kumarina Copper Mine, the workings are entirely underground with drives from the main shaft extending for some 200m in the upper levels and for about 100m in the lower levels at a depth of 49m below surface.

Incomplete records post-1960s make it difficult to estimate the total copper production from the workings. However, indications are that the Kumarina Copper mine was the second largest producer in the Bangemall Basin group of copper mines. Recorded production to the late 1960s is 481t of copper ore at a high-grade of 37.0% Cu and 2,340t at a grade of 17.51% Cu.

An initial Mineral Resource Estimate for the Rinaldi deposit was completed by the Company in 2013 (see 30 June 2013 Quarterly Report announced on 31 July 2013). The total Measured, Indicated and Inferred Mineral Resource Estimate as at 30 September 2019 is shown in Table 4 below. The Rinaldi resource is currently covered by a Mining Lease Application.

#### **TABLE 4 KUMARINA PROJECT SUMMARY OF MINERAL RESOURCES** AS AT 30 December 2019 **Tonnes** Cu Cu metal Location Category (t) (%) (tonnes) Measured 415,000 1.46 6,100 **Indicated** 307,000 1.16 3,500 **Rinaldi Prospect** Inferred 114,000 0.9 1,000 (0.5% Cu cut-off)

The Mineral Resource Estimate meets the reporting requirements of the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves"

835,000

1.3

10,600

**Total** 

#### **Forward Looking Statements**

Horseshoe Metals Limited has prepared this announcement based on information available to it. No representation or warranty, express or implied, is made as to the fairness, accuracy, completeness or correctness of the information, opinions and conclusions contained in this announcement. To the maximum extent permitted by law, none of Horseshoe Metals Limited, its directors, employees or agents, advisers, nor any other person accepts any liability, including, without limitation, any liability arising from fault or negligence on the part of any of them or any other person, for any loss arising from the use of this announcement or its contents or otherwise arising in connection with it. This announcement is not an offer, invitation, solicitation or other recommendation with respect to the subscription for, purchase or sale of any security, and neither this announcement nor anything in it shall form the basis of any contract or commitment whatsoever. This announcement may contain forward-looking statements that are subject to risk factors associated with gold exploration, mining and production businesses. It is believed that the expectations reflected in these statements are reasonable but they may be affected by a variety of variables and changes in underlying assumptions which could cause actual results or trends to differ materially, including but not limited to price fluctuations, actual demand, currency fluctuations, drilling and production results, reserve estimations, loss of market, industry competition, environmental risks, physical risks, legislative, fiscal and regulatory changes, economic and financial market conditions in various countries and regions, political risks, project delay or advancement, approvals and cost estimates.

#### **Competent Persons Statement**

The information in this report that relates to the Exploration Results and Mineral Resources at the Horseshoe Lights and Kumarina Projects is based on information reviewed by Mr Craig Hall, who is a member of the Australian Institute of Geoscientists. Mr Hall is a non-executive director Horseshoe Metals Limited and has sufficient experience which is relevant to the style of mineralisation and types of deposit under consideration and to the activity he is undertaking to qualify as Competent Persons as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code 2012)'. Mr Hall consents to the inclusion of the data in the form and context in which it appears.

The information in this report that relates to the Horseshoe Lights Project In-situ Mineral Resources is based on information originally compiled by Mr Dmitry Pertel, an employee of CSA Global Pty Ltd, and reviewed by Mr Hall. This information was originally issued in the Company's ASX announcement "40% increase in Copper Resource at Horseshoe Lights Copper/Gold Project", released to the ASX on 5th June 2013, and first disclosed under the JORC Code 2004. This information was subsequently disclosed under the JORC Code 2012 in the Company's ASX release "Quarterly Report Period Ended 30<sup>th</sup> June 2013", released on the 31<sup>st</sup> July 2013. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements. The company confirms that the form and context in which the findings are presented have not materially modified from the original market announcements.

The information in this report that relates to the Horseshoe Lights Project surface stockpile Mineral Resources is based on information compiled by a previous employee of Horseshoe Metals Limited, and reviewed by Mr Hall. The information was previously issued in announcements released to the ASX on 26 February 2015 and 9 March 2015. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market

announcements. The company confirms that the form and context in which the findings are presented have not materially modified from the original market announcements.

The information in this report that relates to the Kumarina Project (Rinaldi Prospect) Mineral Resources is based on information compiled by or under the supervision of Mr Robert Spiers, an independent consultant to Horseshoe Metals Limited and a then full-time employee and Director of H&S Consultants Pty Ltd (formerly Hellman & Schofield Pty Ltd), and reviewed by Mr Hall. The information was originally issued in the Company's ASX announcement "Horseshoe releases Maiden Mineral Resource Estimate for Kumarina", released to the ASX on 4th March 2013, and first disclosed under the JORC Code 2004. This information was subsequently disclosed under the JORC Code 2012 in the Company's ASX release "Quarterly Report Period Ended 30th June 2013", released on the 31st July 2013. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements. The company confirms that the form and context in which the findings are presented have not materially modified from the original market announcements.

### **JORC CODE, 2012 EDITION**

#### **Section 1 Sampling Techniques and Data**

riteria	JORC Code explanation	Commentary
ampling chniques	<ul> <li>Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.</li> </ul>	<ul> <li>Drilling results referenced within this document are historical in nature, and relate to the period 1985-1989. The primary data was receipted as a database maintained by geologist Ken Bampton, of Ore Reserve Evaluation Services in South Australia, formerly of Adelaide Chemical SA ("Adchem"), whom worked extensively at Mt Gunson. Drilling results and data was corroborated with South Australian Mines Department Envelope Open Fil Envelope 8319 (Comprising Quarterly and Annual reports for Mount Gunson Mines Pty Ltd for the period 14/2/1987 to 15/4/1994) and found to be satisfactory. Drill programmes are summarised in the below format: HOLE SERIES/HOLE_ID/YEAR/TYPE/HOLE DIAMETER/LABORATORY/ANALYSIS METHOD</li> </ul>
		AW series (AW1-25) 1985: Air track Blasthole, 75mm hole, AWF Central Lab, 3 acid/AAS finish
		AW series (AW30-68) 1986: Air track Blasthole, 75mm hole, EMAC Gunston Lab, wet chem/AAS finish
		AW series (AW69-258) 1987: Downhole hammer, 85mm hole, AMDEL Adelaide Lab, wet chem/Method A2
		AW series (AW297-352) 1988: Downhole hammer, 85mm hole, Classic Comlabs, Method AAS1/AAS1C
		AW series (AW359-378) 1988: GD Hydra-Trac Blasthole, 75mm hole, Classic Comlabs, Method AAS1/AAS1C
		AW series (AW381) 1988: Downhole hammer, 85mm hole, Classic Comlabs, Method AAS1/AAS1C
		AW series (AW385-410) 1988: GD Hydra Trac-Blasthole, 75mm hole, Classic Comlabs, Method AAS1/AAS1C
		AW series (AW436-479) 1988: Downhole hammer, 85mm hole, Classic Comlabs, Method AAS1/AAS1C
		AW series (AW490-493) 1988: GD Hydra Trac-Blasthole, 75mm hole, XRF (Amdel PMA); checked -Classic Coml
		AW series (AW498-506) 1989: Downhole hammer, 85mm hole, Classic Comlabs, Method AAS1/AAS1C
		ME series (ME03-32) 1988: RC, 112mm, Classic Comlabs, Method AAS1/AAS1C
		ME Series (ME39-60) 1989: GD Hydra Trac-Blasthole, 75mm hole, Classic Comlabs, Method AAS1/AAS1C
		ME Series (ME62-84) 1989: Downhole hammer, 85mm hole, Classic Comlabs, Method AAS1/AAS1C
		ME Series (ME98-99) 1989: GD Hydra Trac-Blasthole, 75mm hole, Classic Comlabs, Method AAS1/AAS1C
		PL Series (PL05) 1988: Downhole hammer, 85mm hole, Classic Comlabs, Method AAS1/AAS1C
		• PL Series (PL06- PL08) 1988: GD Hydra Trac-Blasthole, 75mm hole, Classic Comlabs, Method AAS1/AAS1C
		PL Series (PL17- PL26) 1988: Downhole hammer, 85mm hole, Classic Comlabs, Method AAS1/AAS1C
		PL Series (PL30-PL37) 1988: GD Hydra Trac-Blasthole, 75mm hole, Classic Comlabs, Method AAS1/AAS1C
		PL Series (PL46-PL70) 1988-9: Downhole hammer, 85mm hole, Classic Comlabs, Method AAS1/AAS1C
		HE Series (HE1) 1989: Downhole hammer, 85mm hole, Classic Comlabs, Method AAS1/AAS1C
		HE Series (HE15) 1989: GD Hydra Trac-Blasthole, 75mm hole, Classic Comlabs, Method AAS1/AAS1C
		HE Series (HE25-HE32) 1989: Downhole hammer, 85mm hole, Classic Comlabs, Method AAS1/AAS1C
		• HE Series (HE33-HE-45) 1989: GD Hydra Trac-Blasthole, 75mm hole, Classic Comlabs, Method AAS1/AAS1C
		HE Series (HE46-HE88) 1989: RAB, 85mm hole, Classic Comlabs, Method AAS1/AAS1C
		• HE Series (HE93-99) 1989: GD Hydra Trac-Blasthole, 75mm hole, Classic Comlabs, Method AAS1/AAS1C
		HE Series (HE105-HE140) 1989: Downhole hammer, 85mm hole, Classic Comlabs, Method AAS1/AAS1C
		HW Series (HW3-HW28) 1987: Downhole hammer, 85mm hole, Classic Comlabs, Method AAS1/AAS1C
		HW Series (HW43) 1988: RAB, 85mm hole, Classic Comlabs, Method AAS1/AAS1C
		HW Series (HW131-HW220) 1988-9: Downhole hammer, 85mm hole, Classic Comlabs, Method AAS1/AAS1C
		RC Series (RC9-RC37) 1988: Downhole hammer, 85mm hole, Classic Comlabs, Method AAS1/AAS1C
		CS Series (CS1-CS37) 1988: Downhole hammer, 85mm hole, Classic Comlabs, Method AAS1/AAS1C

Criteria	JORC Code explanation	Commentary
	•	CS Series (CS56-CS124) 1988-9: Downhole hammer, 85mm hole, Comlabs Services, Method AAS1/AAS1C
	<ul> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> </ul>	<ul> <li>Industry standard practice was adopted at the time for sampling of drill cuttings for copper, although Mt Gunson routinely collected 0.5m samples, as opposed to an industry standard of 1m of material from the downhole length. Although the decreased sample size could be expected to increase sample variability, the smaller sample size was required to give additional control over mining the flat-lying mineralisation.</li> </ul>
	<ul> <li>Aspects of the determination of mineralisation that are Material to the Public Report. In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.</li> </ul>	• For each RC/RAB/DTH hole, each 0.5 m (5-6 kg) of -10 mm drill cuttings was manually riffled (20mm slots) down to a 2-2.5 kg sample collected in a 10" calico bag for delivery to the laboratory. For BH sampling, collar cuttings were sampled and cleared every 0.5m, and collected as typically a sub-2kg sample in a calico bag. No record of charge sizes for the respective analysis methods has been recovered to date.
Drilling techniques	<ul> <li>Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard</li> </ul>	<ul> <li>Various drilling types are recorded in the numerous drilling programmes- listed by type in Table 2, summarised below:</li> </ul>
	tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).	BH- Air track Blasthole Drill Rig, 75mm hole diameter, owned/operated by Emeco-MacMahon "EMAC"  DTH- Downhole hammer, 85mm hole diameter, owned/operated by Adelaide & Wallaroo Fertilizers Ltd ("AWF")  BH- Garnder Denver Hydra-Trac Blasthole Rig, estimated 75mm hole, owned/operated by Roche Brothers  RC- Reverse Circulation Drill Rig, 112mm hole, using small diameter bit with crossover sub, contractor unknown.  RAB- Rotary Air Blast Drill Drill, 85mm hole, utilising tricone rollers or drag bits, contractor unknown.
Drill sample recovery	Method of recording and assessing core and chip sample recoveries and results assessed.	Typically not recorded.
•	<ul> <li>Measures taken to maximise sample recovery and ensure representative nature of the samples.</li> </ul>	<ul> <li>Typically not recorded. As holes depths discussed within are typically shallow (&lt;15m depth), sample representativity and recovery are likely only issues at the within the first metre with these types of drilling.</li> </ul>
	Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.	<ul> <li>Possible anecdotal suggestion of sample bias through partial loss of fine fraction, but not considered material in respect of the historical production record at Mt Gunson.</li> </ul>
Logging	Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.	<ul> <li>Typically not logged, holes were primarily drilled for mine production purposes. Samples not visually showing copper mineralisation were routinely not sampled.</li> </ul>
	<ul> <li>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</li> </ul>	• N/A.
	The total length and percentage of the relevant intersections logged.	• N/A
Sub- sampling techniques and sample preparation	<ul> <li>If core, whether cut or sawn and whether quarter, half or all core taken.</li> <li>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</li> </ul>	<ul> <li>No diamond core resulted are cited in this release.</li> <li>All holes were dry. At the drill site of RC/RAB/DTH hole, each 0.5 m (5-6 kg) of -10 mm drill cuttings was manually riffled (20mm slots) down to a 2-2.5 kg sample collected in a 10" calico bag for delivery to the laboratory.</li> <li>For BH sampling, collar cuttings were sampled and cleared every 0.5m, and collected as typically a sub-2kg sample in a calico bag.</li> </ul>
	For all sample types, the nature, quality and appropriateness of the sample preparation technique.	• Typically, a disc mill was used to reduce the 2-3 kg sample to -1 mm prior to riffling through a mechanically shaken, 20x 10 mm slot riffle to obtain a 100 g sub-sample for ring-mill grinding to an assay pulp, which was then collected in a geochemical paper packet.

Criteria	JORC Code explanation	Commentary
	<ul> <li>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</li> </ul>	Compressed air blast cleaning of both mills and riffle was carried out between each sample.
	<ul> <li>Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second- half sampling.</li> </ul>	<ul> <li>Sub-sampling stages are considered appropriate for the representivity of samples. No historical field duplicates or additional representivity checks are recorded in the available data</li> </ul>
	<ul> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul>	The sample size is considered industry standard for base metal mineralisation, typically recording values in the % range, and appropriate to the grain size of the material being sampled.
Quality of assay data and laboratory tests	The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.	<ul> <li>The nature, quality and appropriateness of the assay methods and procedures are considered for the analysis of acid-leachable copper-bearing oxide material, are considered representative of a total assay in this setting. Analysis typically consists of a wet chemistry digestion by acid, and determination of grade by Atomic Absorption Spectrometer ("AAS"). Over-range grades were diluted and reread. Some silver values are recorded in initial assay results, but were discontinued over time- typically the results are copper only, although the mineralisation typically shows a Cu-Ag-Co grade relationship, as evidenced by the historic production figures.</li> <li>A summary of the various laboratories and procedures used at Mt Gunson is listed below:</li> <li>AWF Central Lab-(1985)- Method 3 acid digest/AAS finish, Detection limit not recorded EMAC Gunston Lab- (1986)- Method wet chem/AAS finish, Detection limit not recorded Amdel- (1987-NATA Accredited) Method A2, Upper Method not specified, Lower Detection Limit 2ppm Classic Comlabs Ltd -(NATA Accredited-1988/9) Method AAS1, Upper Method AAS1C, Lower Detection Limit 2ppm</li> </ul>
	<ul> <li>For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.</li> </ul>	<ul> <li>Holes AW487-495 were analysed onsite for expediency and subsequent mining at the Mt Gunson onsite laboratory by XRF using an Amdel PMA. Results for Holes AW394-404 had previously been compared with results from Classic Comlabs and were found to vary no more than 2% on average, giving confidence in the Amdel PMA method. It was determined at the time to retain Comlabs results in the database for uniformity with respect to resource/reserve calculation purposes. The PMA was used onsite to record mine production grades, such as crusher feed grades, giving confidence in production records.</li> </ul>
	<ul> <li>Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.</li> </ul>	<ul> <li>The quality of the assay data is not able to be verified as it is of a historical nature, but the tenor of results is consistent with production records, suggesting the grades are reliable. Some 80% of the database is within mined pits with a satisfactory reconciliation record, and some 95% of the database reports within a 25m buffer of a mined pit outline.</li> </ul>
Verification of sampling and assaying	<ul> <li>The verification of significant intersections by either independent or alternative Company personnel.</li> <li>The use of twinned holes.</li> </ul>	<ul> <li>External laboratory checks are planned for significant assay results but have yet to be completed.</li> <li>No recorded twinning of data is noted. An older generation (1960-70's) of CSR coreholes and Air Trac holes exist within the tenure, but this data is currently lost and being considered for recovery where possible. The AW series of drilling completely replace these holes.</li> </ul>
	Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.	<ul> <li>Primary data was receipted as a database maintained by geologist Ken Bampton, of Ore Reserve Evaluation Services in South Australia, formerly of Adchem, whom previously worked at Mt Gunson. Drilling results and data was corroborated with South Australian Mines Department Envelope Open File Envelope 8319 (Comprising Quarterly and Annual reports for Mount Gunson Mines Pty Ltd for the period 14/2/1987 to 15/4/1994- work undertaken by Adelaide Chemical SA "Adchem"), and found to be satisfactory.</li> </ul>
	Discuss any adjustment to assay data.	No adjustments undertaken.

Criteria	JORC Code explanation	Commentary
Location of data points	<ul> <li>Accuracy and quality of surveys used to locate drill holes (collar and downhole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.</li> </ul>	<ul> <li>Collar locations were survey-controlled onsite by surveyors. Some uncertainty around final mining boundaries in certain pits (e.g. House West) owing to backfilling and availability of pit pickups. The company has assumed a mining event which takes in significant mineralisation encountered in HW series drilling. The company intends to confirm remnant in-situ resources in such areas by further drilling.</li> </ul>
	Specification of the grid system used.	Grid system coordinates are GDA94 MGA Zone 53.
	Quality and adequacy of topographic control.	Topographic control is available from known survey stations and considered adequate
Data spacing and distribution	<ul> <li>Data spacing for reporting of Exploration Results.</li> <li>Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.</li> </ul>	<ul> <li>Drilling in these programmes are typically sub- 20m spacing in areas recording copper production.</li> <li>Drilling spacings are sufficient to establish a degree of geological and grade continuity appropriate for Mineral Resource and Ore Reserve estimation.</li> </ul>
	Whether sample compositing has been applied.	No composite sampling applied
Orientation of data in relation to geological structure	<ul> <li>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</li> <li>If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.</li> </ul>	<ul> <li>All drilling reported is vertical into flat-lying mineralisation, and no additional mineralisation control is considered to date</li> <li>No sampling bias is considered to have been introduced by the drilling orientation</li> </ul>
Sample security	The measures taken to ensure sample security.	Historical protocols over many generations of drilling programmes are unavailable
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	<ul> <li>No audits or reviews have been revealed to date, other than the discussion of PMA and Comlabs results discussed above.</li> </ul>

### **Section 2 Reporting of Exploration Results**

Criteria	JORC Code explanation	Commentary	
Mineral tenement and land tenure status	Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.	The leases forming the current project (ML3717-21, ML5598, ML5599; MPL1) were acquired from Adels Chemical Company Ltd ("Adcem") and are currently held by a family-owned earthmoving contractor ba Adelaide, who previously operated their own copper-oxide leach operation until the oxide developmen were granted to CMM on the 29th June 2017 under a 'Licence to Operate'. Under the Licence to Opera has a 100% interest in rights to explore, develop and operate oxide copper deposits, stockpiles and taili the listed tenements using all available surface infrastructure including camp, mains power/water supp treatment plant and earthmoving equipment, with the exception of ML5599, where the licence allows unrestricted use of water and the right to re-process copper-bearing material on the floor of the site. T term of the agreement between CMM and the Licensor, who holds the tenements, expires on 29th June and can be extended by CMM for a period of a further two years to the 29th June 2022. Further extens beyond 29th June 2022 can be negotiated during the term of this lease.	ased in the rights ate, CMM ings on only, The initial e 2020
	• The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.	<ul> <li>ML3717-21, ML5598, ML5599 and MPL1 are in good standing. The Company is unaware of any addition impediment to the licence to operate in the area.</li> </ul>	nal
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	Copper ore was discovered at Mount Gunson in 1875 and the first recorded production was from 1899, smelter was subsequently erected in the Main Open Cut ("MOC") area in 1904. Small-scale production continued in the area until the Cattlegrid deposit was discovered and subsequently mined by CSR Limits 1974 to 1986 (in partnership with Emeco-MacMahon "EMAC" from 1984-86), with 7.2 Mt of 1.9% Cu or from the Cattlegrid open pit. Together with 270,000 t of MOC ore, the tenements recorded production 000 t of copper, 62 t of silver and 2900 t of cobalt in concentrates. In late 1985, Adelaide and Wallaroo Fertilizers Ltd ("AWF") became involved with EMAC in a partnership continue exploration and mining of the MOC area. EMAC then conducted a successful trial floating oxide thru their on-site plant, selling AWF an oxide concentrate for feed to Burra, but terms were not agreed, concluded operations, dismantled the plant and rehabilitated the site.	ed from re mined of 156, p to de ore

Criteria	JORC Code explanation	Commentary
		AWF then approached CSR for a sub-lease to pursue a standalone heap leach operation at Mt Gunson, and as Adchem (an operating division of Adelaide and Wallaroo Fertilizers Ltd) continued in their own right.  From 1987 to around 2006, Adelaide Chemical Company Ltd "Adchem" produced over 14,000 t of copper in cement for feed to the Burra cupric oxide plant from the Mt Gunson Project, principally from heap leaching of 1.2 Mt of 1.3% copper oxide ore from the MOC area, Gunyot, House and Core Shed deposits.
Geology	Deposit type, geological setting and style of mineralisation.	<ul> <li>Mt Gunson is located on the Stuart Shelf, comprising an undeformed cover sequence of flat-lying, late Adelaide platform sediments on Gawler Craton crystalline basement. Both sandstone-hosted (e.g. Cattlegrid, MOC) and shale-hosted (e.g. MG14, Gully) mineralisation types occur at relatively shallow depths within the Mt Gunson region, typically within 25-50m of the surface. Only the sandstone-hosted deposits have been mined, and copper mineralisation occurs as flat undulating blankets of variable thickness, comprising networks of fracture-filling veins in a breccia representing a preserved Precambrian permafrost horizon, where repeated freezing and thawing created the brecciated host rock in which the copper was deposited.</li> <li>The quartzite is the locally-silicified upper part of the Pandurra Formation, a thick (typically &gt;1000 m) pre-Adelaidean fluviatile sandstone unit. Regionally, the Mt Gunson copper deposits lie on a northerly trending structural ridge known as the Pernatty Upwarp which is a complex horst structure expressed as an uplift of the Pandurra Formation. Neoproterozoic strata of the Stuart Shelf that would normally be present in a complete stratigraphic section are absent over the culmination of the Pernatty Upwarp, allowing the Whyalla Sandstone to directly overlie the Pandurra Formation in places within the Mt Gunson region.</li> <li>The principal ore mineral is chalcocite, but significant bornite and chalcopyrite occur locally along with accessory carrollite, galena and sphalerite. Due to the saline surface environment, the copper chloride hydroxide atacamite is the principal oxide mineral. Shale-hosted mineralisation occurs in the Adelaidean Tapley Hill</li> </ul>
Drill hole Information	A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all	Formation where this unit is present between the Pandurra and Whyalla units. Sulphide mineralogy is similar but much finer-grained and not necessarily breccia-hosted.  • Refer to the body of text of this report and Table 2 for information material to the understanding of the exploration results.
	<ul> <li>Material drill holes:</li> <li>If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.</li> </ul>	<ul> <li>Exclusions within Table 2 relate to unmineralised or subgrade intervals (mostly within the mined pit outlined) have occurred, but are represented in plans of drilling in Figures 4, 7 and 9- giving a context of location, and are not considered to detract from this report.</li> </ul>
Data aggregation methods	<ul> <li>In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.</li> </ul>	Typically 0.5m split samples are reported and simply averaged over the mineralised interval; typically with no top cut; the significant intersections with Table 2 and figures within the report use a minimum 2m interval > 0.5% Cu, with minimum 2m internal dilution.  Additional 'unmined' (i.e. remaining in situ) intervals between 0.5 and 2m width and >0.5% Cu (i.e. lower tenor 'open' mineralisation are reported at the end of Table 2 and identified in certain figures.
	<ul> <li>Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.</li> <li>The assumptions used for any reporting of metal equivalent values should be clearly stated.</li> </ul>	<ul><li>N/A</li></ul>

Criteria	JORC Code explanation	Commentary
Relationship between mineralisation widths and intercept lengths	<ul> <li>These relationships are particularly important in the reporting of Exploration Results.</li> <li>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</li> <li>If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known').</li> </ul>	<ul> <li>Reported downhole lengths are approximately true width.</li> <li>Mineralisation occurs within sheet-like tabular bodies, sub-horizontal in dip, drilling is perpendicular to the target.</li> <li>N/A, refer above</li> </ul>
Diagrams	<ul> <li>Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.</li> </ul>	See plans and sections this report
Balanced reporting	<ul> <li>Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.</li> </ul>	See Table 2
Other substantive exploration data	<ul> <li>Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.</li> </ul>	<ul> <li>In the Company's opinion this material has been adequately reported in previous production history over a mostly continuous period for the last 50 years, and the detail is not relevant for reporting of these exploration results. The Company continues to compile historic exploration data from a variety of sources, principally SARIG (the SA Government mines department resource) for meaningful exploration results, and will report them in separate releases as significant detail comes to hand.</li> </ul>
Further work	<ul> <li>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).</li> <li>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</li> </ul>	<ul> <li>Planned extensional drilling is being considered. Other planned activities discussed in text.</li> <li>Refer to figures in body of text.</li> </ul>