Market Update



December 2018 - Highlights

5 December 2018

Cobalt Blue Holdings Limited
A Green Energy
Exploration
Company



ASX Code:

COB

Commodity Exposure:

Cobalt & Sulphur

Directors & Management:

Robert Biancardi Hugh Keller Joe Kaderavek Matt Hill Robert Waring Non-Exec Chairman Non-Exec Director CEO & Exec Director Non-Exec Director Company Secretary

Capital Structure:

Ordinary Shares at 04/12/2018: 116.2m
Options (ASX Code: COBO): 24.4m
Market Cap (undiluted): \$27.3m

Share Price:

Share Price at 4/12/2018: **\$0.22**



Cobalt Blue Holdings Limited

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Thackaringa Cobalt Project Drilling and Water Supply Update

Drilling Program advances.
Project water supply confirmed.

2018 - 2019 drilling campaign to target improved Mineral Resource classification and growth.

KEY POINTS:

- Cobalt Blue Holdings Limited (ASX:COB) is pleased to announce initial results from its major resource definition drilling program underway at Thackaringa, NSW.
- Initial results reinforce potential for substantial mine life.
- Drilling continues to reaffirm the geological model with a total of 5,686 metres completed to date in excess of 15,000 metres will be drilled over the campaign, making the current program the largest undertaken at the project. Previously, between 2H 2016 and 1H 2018, COB has drilled a total of 20,445 metres (38 diamond drill holes, 93 RC drill holes, and 3 RC drill holes with diamond tails) over three campaigns.
- The current announcement summarises results from the first three diamond drill (DD) holes (for 120 metres total) and four reverse circulation (RC) holes (for 766 metres total) that were drilled at the Pyrite Hill deposit. Significant intersections include:
 - 18THR001 56m at 824ppm Co, 11.1% Fe & 9.4% S from 146m
 - 18THR002 68m at 1218ppm Co, 13.4% Fe & 13.4% S from 116m
 - 18THR003 52m at 1042ppm Co, 11.1% Fe & 11.2% S from 93m
 - 18THR004 91m at 826ppm Co, 12.8% Fe & 10.2% S from 67m
- Updated Resource Model due end Q1 2019.
- Cobalt Blue is proud to announce that it has secured up to 1.5 GL of water per annum that will be supplied by Essential Water at a metered off-take point on the western outskirts of Broken Hill.

Cobalt Blue's Chairman, Rob Biancardi said: "We are pleased by recommencement of drilling at Thackaringa. Assays received to date have affirmed continuity of high-grade cobalt mineralisation at the Pyrite Hill deposit with further potential for Resource growth identified through down-dip extension"





2018-2019 Drilling Program Aims

The current drilling campaign aims include:

- 1. Improved Mineral Resource classification defining Measured Resources.
- 2. Growth of Mineral Resources exploration along margins of existing mineralised bodies.
- 3. Overburden definition identification of oxide and/or transition layer(s).
- 4. **Blue-sky exploration** follow up previously identified geophysical anomalies.

Drilling Update

Thus far, the current drilling program has focused on the Pyrite Hill deposit which represents 36% of the existing Mineral Resource tonnage and approximately 39% of contained cobalt inventory (Refer to Table 1 for complete Mineral Resource summary). A versatile drilling fleet comprising two diamond and two RC drill rigs has been deployed to service program objectives.

Figure 1. Diamond and Reverse Circulation drilling operations at Pyrite Hill.



As of 30th November 2018, a total of 5,788 metres has been completed including 1,353 metres using diamond rigs and 4,435 metres using RC rigs. The initial holes are focused on completing in-fill drilling to provide greater confidence in the Mineral Resource classification and to better define the oxidation layers which cap the fresh sulphide mineralisation. Results from infill drilling have been positive; confirming substantial thicknesses of mineralisation consistent with the existing geological model. Assays from the first three diamond drill (DD) holes (for 120 metres total) and four reverse circulation (RC) holes (for 766 metres total) have been received. Significant intersections from RC drilling include:

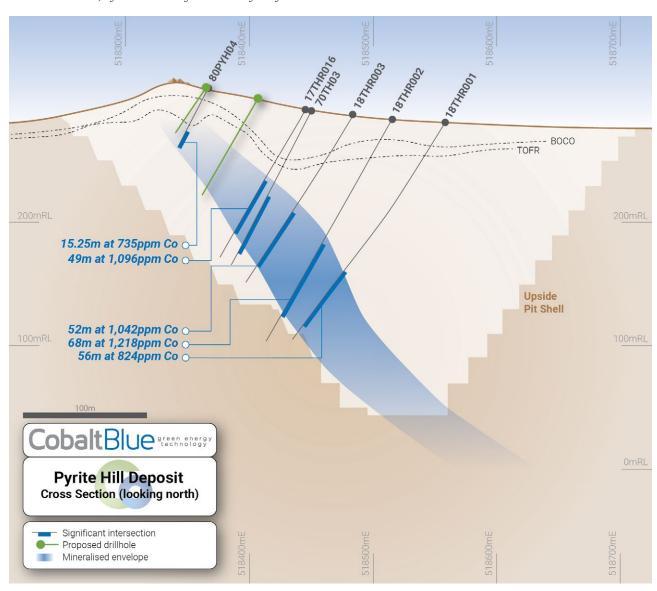
- 18THR001 56m at 824ppm Co, 11.1% Fe & 9.4% S from 146m
- 18THR002 68m at 1218ppm Co, 13.4% Fe & 13.4% S from 116m
- 18THR003 52m at 1042ppm Co, 11.1% Fe & 11.2% S from 93m
- 18THR004 91m at 826ppm Co, 12.8% Fe & 10.2% S from 67m





Figure 2. Pyrite Hill deposit drilling cross section showing strong continuity of high grade mineralisation down dip from existing drilling (18THR001 - 003).

Significant intersections are as released 4 May 2017 '2017 Update – Strong Drilling Results Continue' and the inputs and results underpinning the 'upside pit shell' are as released 4 July 2018 'Thackaringa Pre-Feasibility Study Announced'.



Diamond drilling assays received to date reflect intersections from shallow drill holes directly targeting the oxidation zone. The intersections comprise variable zones of sulphide mineralisation intercalated with localised oxidation which is characterised by partial sulphide/cobalt depletion. It is important to note, that this material was excluded from the March 2018 Mineral Resource estimate. Core samples from the current campaign will be retained for metallurgical testwork, to determine if cobalt can be recovered from this type of oxidised material. Significant, shallow intersections from these drill holes include:

- 18THD001 24m at 673ppm Co, 9.8% Fe & 7.1% S from 6.9m
- 18THD003 15.05m at 658ppm Co, 11.3% Fe & 7.6% S from 18.65m





Figure 3. Pyrite Hill deposit drilling cross section showing mineralised intersections relative to the interpreted oxidation boundaries with the reported intersection from 18THD001 inclusive of partially oxidised material.

Significant intersections are as released 4 May 2017 '2017 Update – Strong Drilling Results Continue', 25 May 2017 'Stage One Drilling Program delivers robust results – resource upgrade to follow' and the inputs and results underpinning the 'upside pit shell' are as released 4 July 2018 'Thackaringa Pre-Feasibility Study Announced'.

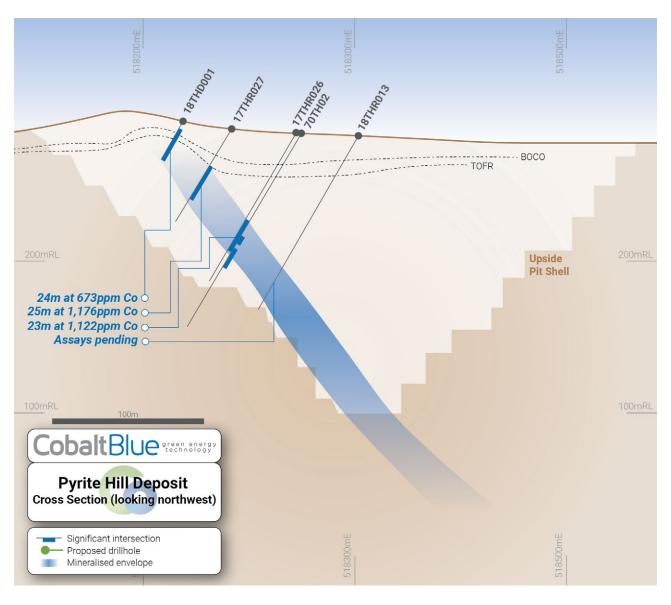
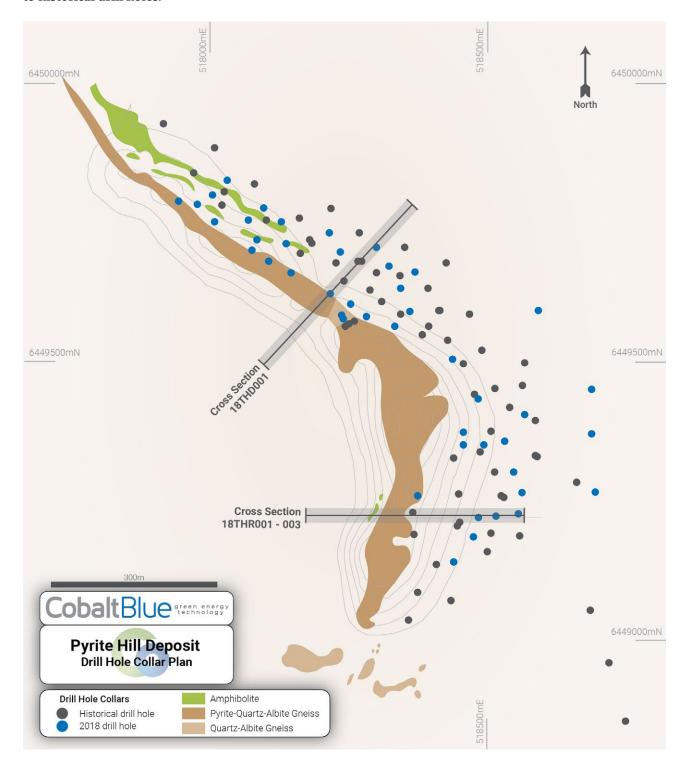






Figure 4. Pyrite Hill deposit drill hole collar plan illustrating drill holes completed to date relative to historical drill holes.

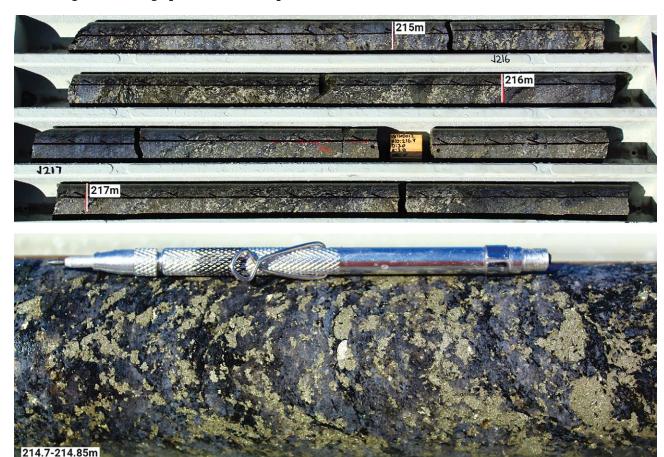


In late November 2018 two rigs commenced drilling possible extensions at the Pyrite Hill deposit. This drilling predominantly targets down dip extension (below 50mRL) and is considered a significant opportunity for Mineral Resource growth. Visual mineralisation has been encouraging with core currently being processed and assays from RC samples pending.





Figure 5. Strong mineralisation (assays pending) intersected in diamond drill hole 18THD012 (Pyrite Hill) between 100mRL – 50mRL (approximately 180 – 230m below surface) supporting potential for Mineral Resource growth through potential down-dip extensions.



On completion of drilling at Pyrite Hill, all rigs will be deployed to the Railway deposit for completion of the planned program. Further assays will be released as the campaign progresses with an updated Resource Model due end Q1 2019.

Cobalt Blue - Water Supply

Essential Water has confirmed that 1.2 GL per annum is available to COB without any upgrade to Essential's trunk main at a metered take off point on the western outskirts of Broken Hill. An additional 0.3 GL per annum is available if COB provides a capital contribution to increase the trunk main capacity. Essential Water notes that the water supply will soon be from a more reliable source on the Murray River at Wentworth.

COB released a Pre-Feasibility Study (PFS) for the Thackaringa Cobalt Project in July 2018. The Process Plant Water Balance developed in the PFS identified a water supply requirement of 1.22 GL per annum, which included a 5% allowance for evaporation. With a 20% contingency, the processing water supply requirement is 1.5 GL per annum.

COB believes that securing a reliable source of high quality water that meets the processing requirements at the Thackaringa Cobalt Project is a significant milestone.

Cobalt Blue's Chief Executive Officer, Joe Kaderavek commented:

"COB is excited to secure a reliable source of water that meets the processing demands of the Project. We look forward to working with Essential Water to develop the provision of water to the site."





The Thackaringa Cobalt Project

The Thackaringa Cobalt Project (the 'Project') is located approximately 25 km west-southwest of Broken Hill and comprises four tenements for a total area of 63 km². The project is subject to a joint venture agreement between COB and Broken Hill Prospecting Limited (ASX: BPL).

The tenements host three large tonnage cobalt-bearing pyrite deposits with a reported Mineral Resource of 72Mt at 852ppm cobalt (Co), 9.3% sulphur (S) & 10% iron (Fe) for 61Kt contained cobalt (at a 500ppm cobalt cut-off).

The Mineral Resource estimate at Thackaringa is apportioned to the three main deposits as detailed in Table 1.

Table 1. The Mineral Resource estimates for the Thackaringa Cobalt deposits (at a cut-off of 500ppm Co) detailed by Mineral Resource classification and as released 19 March 2018.

Note minor rounding errors may have occurred in the compilation of this table. Pyrite is estimated from block estimates by: Pyrite = S/53.333×100.

Category	Mt	Co ppm	Fe %	S %	Pyrite %	Contained Co (t)	Py Mt	Density			
Railway (at a 5	Railway (at a 500ppm Co cut-off)										
Indicated	23	854	10.1	9.2	17	19,400	4	2.85			
Inferred	14	801	10.4	9.2	17	11,100	2	2.85			
Total	37	842	10.2	9.2	17	30,800	6	2.85			
Big Hill (at a 5	00ppm Co	cut-off)									
Indicated	7	712	7.2	6.9	13	5,200	1	2.77			
Inferred	2	658	6.7	6.3	12	1,500	0	2.76			
Total	10	697	7.1	6.7	13	6,700	1	2.77			
Pyrite Hill (at a	a 500ppm C	o cut-off)									
Indicated	22	937	10.9	10.3	19	20,300	4	2.87			
Inferred	4	920	11.2	10.8	20	4,000	1	2.89			
Total	26	934	10.9	10.3	19	24,200	5	2.88			
Total (at a 500	ppm Co cut	t-off)									
Indicated	52	869	10.0	9.3	17	44,900	9	2.85			
Inferred	20	810	10.1	9.2	17	16,600	4	2.85			
Total	72	852	10.0	9.3	17	61,500	13	2.85			

Currently Cobalt Blue has the following beneficial interests in the tenements:

EL 6622 - 93.68% beneficial interest Cobalt Blue Holdings Limited

EL 8143 – 93.68% beneficial interest Cobalt Blue Holdings Limited

ML 86 – 93.68% beneficial interest Cobalt Blue Holdings Limited

ML 87 – 93.68% beneficial interest Cobalt Blue Holdings Limited

Cobalt Blue Background

Cobalt Blue ("COB") is an exploration company focussed on green energy technology and strategic development to upgrade its Mineral Resource at the Thackaringa Cobalt Project in New South Wales from Indicated to Measured status. Cobalt is a strategic metal in strong demand for new generation batteries, particularly lithium-ion batteries now being widely used in clean energy systems.

Potential to extend the Mineral Resource at Pyrite Hill, Big Hill, Railway and the other prospects is high. Numerous other prospects within COB's tenement package are at an early stage and under-explored.

 ${\sf COB} \ is \ in \ a \ {\sf Joint} \ {\sf Venture} \ with \ {\sf Broken} \ {\sf Hill} \ {\sf Prospecting} \ {\sf Limited} \ ({\sf ASX:BPL}) \ to \ {\sf develop} \ the \ {\sf Thackaringa} \ {\sf Cobalt} \ {\sf Project}.$





Looking forward, we would like our shareholders to keep in touch with COB updates and related news items, which we will post on our website, the ASX announcements platform, as well as social media such as Facebook (1) and LinkedIn (in). Please don't hesitate to join the 'COB friends' on social media and also to join our newsletter mailing list at our website.



Joe Kaderavek Chief Executive Officer info@cobaltblueholdings.com P: (02) 8287 0660

Previously Released Information

This ASX announcement refers to information extracted from the following reports, which are available for viewing on COB's website http://www.cobaltblueholdings.com

- 04 December 2018: Thackaringa JV dilution triggered
- 01 November 2018: Thackaringa Feasibility Study Drilling Campaign Commences
- 24 October 2018: COB decides not to exercise its rights to proceed further under Thackaringa Joint Venture Farmin Earning Period Provisions
- 19 September 2018: Update on Progress with the Bankable Feasibility Study
- 13 September 2018: Bankable Feasibility Study Commences with Drilling Campaign and Project Optimisation Studies
- 11 September 2018: Cobalt Blue to investigate cobalt recovery at Rocklands Project
- 05 September 2018: Thackaringa TJV Completion of Stage 2 Earning Obligations
- 26 July 2018: CEO's Letter to Shareholders July 2018
- 04 July 2018: Thackaringa Pre Feasibility Study Announced
- 20 April 2018: Thackaringa JV Stage One Completed
- 19 March 2018: Thackaringa Significant Mineral Resource Upgrade
- 05 March 2018: PFS Calcine and Leach Testwork Complete Strong Results
- 24 January 2018: Significant Thackaringa Drilling Program complete Resource Upgrade pending
- 27 December 2017: PFS Bulk Metallurgical Testwork Progress Update
- 04 December 2017: Railway Drilling Program confirms grade continuity at depth and strike
- 26 October 2017: Bulk Metallurgical Testwork Strong Concentration Results
- 27 September 2017: CEO's Letter to Shareholders September 2017
- 12 July 2017: Scoping Study update Strong Potential for Commercialisation after Processing Testwork

COB confirms that the form and context in which the Competent Person's findings presented have not been materially modified from the original market announcement.

COB confirms it is not aware of any new information or data that materially affects the information included in the original market announcements, and, in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed. COB confirms that the form and context in which the Competent Person's findings presented have not been materially modified from the original market announcement.

Competent Person's Statement

The information in this report that relates to Exploration Targets, Exploration Results, Mineral Resources and Ore Reserves is based on information compiled by Mr Peter Buckley, a Competent Person who is a Member of The Australian Institute of Geoscientists (MAIG). Mr Buckley is employed by (Left Field Geoscience Services) and engaged by Cobalt Blue Holdings on a consulting basis. Mr Buckley has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Buckley consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.





Appendix 1 – JORC Code, 2012 Edition – Table 1

Section 1 - Sampling Techniques and Data (Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code Explanation	Commentary
Sampling techniques	 Nature and quality of sampling (e.g. 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. Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used. 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 (e.g. '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 (e.g. submarine nodules) may warrant disclosure of detailed information. 	Diamond Drilling (DDH) Pre-1990 Diamond drilling was used to obtain core from which irregular intervals, reflecting visual mineralisation and geological logging were hand-split or sawn. Samples were submitted for analysis using a mixed acid digestion and AAS methodology. Post-1990 Diamond drilling (one drill hole) was used to obtain core from which irregular intervals, reflecting visual mineralisation and geological logging were sawn (quarter core for HQ). Samples were submitted for analysis using a mixed acid digestion and ICP-OES methodolog Metallurgical Drilling Eight (8) HQ diameter diamond drill holes (DDH) were drilled at the Thackaringa project in late 2016. They were used as metallurgical reference holes and were designed to twin some of the previous reverse circulation percussion (RC) holes for QA/QC and assay comparison between DDH and RC. There were two (2) holes drilled at Pyrite Hill, two (2) at Big Hill and four (4) at Railway: Diamond drilling was used to obtain core from which regular (one-metre) intervals were sawn with: one half core dispatched for analysis using a mixed acid digestion and ICP-MS methodology (sulphur >10% by LECC the other half was further sawn such that one quarter-core was sent for metallurgical test work and the other quarter-core retained for archival purposes. 2017 Resource Drilling Program Fourteen HQ diameter diamond drill holes (DDH) were completed and assayed. They were used as metallurgical reference holes designed to twin some historical reverse circulation percussion (RC) holes for QA/QC and assay comparison between DDH and RC. There were four (4) holes drilled at Pyrite Hill, two (2) at Big Hill and eight (8) at Railway: Diamond drilling (17THD01-03) was used to obtain core from which regular (one-metre) intervals were sawn with: one half core dispatched for analysis using a mixed acid digestion and ICP-MS methodology or a suite of 48 elements (sulphur >10% by LECO); the other half was retained for future metallurgical test work and archival purposes.
		assayed. They were used as geotechnical reference holes designed to inform pit optimisation and mine design. There were four (4) hole

to inform pit optimisation and mine design. There were four (4) holes

Diamond drilling (17THD016-24, 26-28) was used to obtain core from which regular (one-metre) intervals were sawn with:

drilled at Pyrite Hill, six (6) at Big Hill and six (6) at Railway:





Criteria	JORC Code Explanation	Commentary
Sampling techniques (continued)		 one half core dispatched for analysis using a mixed acid digestion and ICP-MS methodology for a suite of 48 elements (sulphur >10% by LECO);
(continued)		the other half was retained for future metallurgical test work and archival purposes.
		Intervals selected for sampling were derived from geological logging and as such drill holes 17THD015, 29 and 31 were not sampled as they did not intersect the mineralised envelope.
		Historical Reverse Circulation Drilling
		 RC drilling was used to obtain a representative sample by means of riffle splitting with samples submitted for analysis using the above-mentioned methodologies.
		 Pre-2000 drill samples were assayed for a small and variable suite of elements (sometimes only cobalt). The post-2000 drill samples (5,095 samples) are all assayed by ICP-MS for a suite of 33 elements.
		2017 RC Drilling Program
		Ninety-three (93) RC drill holes and three (3) RC drill holes with diamond tails were drilled and assayed to infill historical holes and support re-estimation of Mineral Resources. There were sixty-five (65) holes drilled at Railway, six (6) at Big Hill and twenty-five (25) at Pyrite Hill:
		 RC drilling was used to obtain a representative sample by means of riffle splitting with samples submitted for analysis by ICP-MS for a suite of 48 elements (sulphur >10% by LECO).
		2018 Drilling Program
		 The exploration drilling program is ongoing with the current announcement summarising results from the first three diamond drill (DD) holes (for 120 metres total) and four reverse circulation (RC) holes (for 766 metres total) that were drilled at the Pyrite Hill deposit: Diamond drilling (18THD001-003) was used to obtain core from which irregular intervals were sawn with:
		 one half core dispatched for analysis using a mixed acid digestion and ICP-MS methodology for a suite of 48 elements (sulphur >10% by LECO); the other half was retained for future metallurgical test
		 the other half was retained for future metallurgical test work and archival purposes.
		 RC drilling (18THR001 – 004) was used to obtain a representative sample by means of a cone splitter with samples submitted for analysis by ICP-MS for a suite of 48 elements (sulphur >10% by LECO).

MARKET UPDATE





Criteria	JORC Code Explanation			Commentary				
Drilling techniques	 Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc). 		 The Thackaringa drilling database comprises a total of six (64) diamond drill holes and 139 reverse circulation (RC) of (three of which have diamond tails). Diamond drilling was nantly completed with standard diameter, conventional H with historical holes typically utilising RC and percussion to an average 25 metres (see Drill hole Information for fur details). Early (1960-1970) drill holes utilised HX – AX diamediated hole diameters (4.8"-5.5") with a face sampling Since 2013 all diamond drilling has been completed using tube system with a HQ3 diameter. Drill holes were typical at angles between 40 and 60 degrees from horizontal and resulting core was oriented as part of the logging process. 					
		Year	Dr	rilling	Metres			
		1967	7 1 (diamond drill hole	304.2			
		1970) 4 (diamond drill holes	496.6			
		1980) 18	3 diamond and 1 RC drill hole	1,711.23			
		1993	3 2	diamond drill holes	250			
		1998	3 11	RC drill holes	1,093.25			
		201	11	RC drill holes	1,811			
		2012	2 20	RC drill holes	2,874.25			
		2013	3 1	diamond drill hole	349.2			
		2016	8 (diamond drill holes	1,511.8			
		2017) diamond drill holes, 93 RC drill holes, RC drill holes with diamond tails	18,933			
		Tota		l diamond, 136 RC drill holes and 3 RC drill bles with diamond tails	29,334.53			
		2018	Drilling P	rogram				
		 2018 Drilling Program The exploration drilling program is ongoing with a total of 5,7 metres completed to date including: 						
		 Reverse circulation drilling utilised standard hole diameters (4.5"-5.5") with a face sampling hammer 						
			diame 55 ar	ond drilling utilising a triple tube system weter. Drill holes were typically drilled at angoid 60 degrees from horizontal and the respriented as part of the logging process.	y drilled at angles between tal and the resulting core			
		Year		Drilling	Metres			
			3 (to 30 mber 2018)	30 RC drill holes and 15 diamond drill holes)	5788.3			





Criteria	JORC Code Explanation	Commentary
Drill sample	 Method of recording and 	Diamond Drilling
recovery	assessing core and chip sample recoveries and results assessed.	 Historical core recoveries were accurately quantified through measurement of actual core recovered versus drilled intervals.
	 Measures taken to maximise sample recovery and ensure representative nature of the samples. 	 Historical diamond drilling employed conventional drilling techniques while diamond drilling completed by Broken Hill Prospecting and Cobalt Blue Holdings utilised a triple-tube system to maximise sample recovery:
	 Whether a relationship exists between sample recovery and 	 Core recovery of 99.7% was achieved during completion of drill hole 13BED01.
	grade and whether sample bias may have occurred due	 Core recovery of 98% was achieved during the 2016 diamond drilling program.
to preferential loss/gain of fine/ coarse material.	 Core recovery of 96.7% was achieved during 2017 diamond drilling (inclusive of diamond tails). 	
	No relationship between sample recovery and grade has been observed.	
		Reverse Circulation Drilling
		 Reverse circulation sample recoveries were visually estimated during drilling programs. Where the estimated sample recovery was below 100% this was recorded in field logs by means of qualitative observation.
		 Reverse circulation drilling employed adequate air (using a compressor and booster) to maximise sample recovery.
		 No relationship between sample recovery and grade has been observed.
		2018 Drilling Program
		Diamond Drilling
		A triple-tube system was used to maximise sample recovery:
		 Core recovery of 97.5% was achieved during completion of drill holes 18THD001 - 003.
		No relationship between sample recovery and grade has been observed.
		Reverse Circulation Drilling
		 Reverse circulation sample recoveries were visually estimated during drilling programs. Where the estimated sample recovery was below 100% this was recorded in field logs by means of qualitative observation.
		 Reverse circulation drilling employed adequate air (using a compressor and booster) to maximise sample recovery.
		 No relationship between sample recovery and grade has been observed.





Criteria	JORC Code Explanation	Commentary						
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. Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography. The total length and percentage of the relevant intersections logged. 	 A qualified geoscientist has logged all reported drill holes in their entirety. This logging has been completed to a level of detail considered to accurately support Mineral Resource estimation and metallurgical studies. The parameters logged include litholog alteration, mineralisation and oxidation. These parameters are bo qualitative and quantitative in nature. Diamond drilling completed during 2016–2017 by Broken Hill Prospecting/Cobalt Blue Holdings has been subject to geotechni logging with parameters recorded including rock-quality designat (RQD), fracture frequency and hardness. During 2013, a considerable amount of historical drilling was re-logged through review of available core stored at Broken Hill as well the re-interpretation of historical reports where core or percussion samples no longer exist. A total of eight (8) diamond drill holes and sixteen (16) diamond drill holes with pre-collars we re-logged as detailed below: 						
		Hole ID	Deposit	Max Depth	Hole Type	Pre-Collar Depth (m)		
		67TH01	Pyrite Hill	304.2	DDH	_		
		70TH02	Pyrite Hill	148.6	DDH	_		
		70TH03	Pyrite Hill	141.4	DDH	_		
		70BH01	Big Hill	102.7	DDH	_		
		70BH02	Big Hill	103.9	DDH	_		
		80PYH13	Pyrite Hill	77	DDH	_		
		80PYH14	Pyrite Hill	300.3	DDH	_		
	80BGH09	Big Hill	100.5	DDH	_			
	80PYH01	Pyrite Hill	24.53	PDDH	6			
		80PYH02	Pyrite Hill	51.3	PDDH	33.58		
		80PYH04	Pyrite Hill	55	PDDH	38.7		
		80PYH05	Pyrite Hill	93.6	PDDH	18		
		80PYH06	Pyrite Hill	85.5	PDDH	18		
		80PYH07	Pyrite Hill	94.5	PDDH	12		
		80PYH08	Pyrite Hill	110	PDDH	8		
		80PYH09	Pyrite Hill	100.5	PDDH	8		
		80PYH10	Pyrite Hill	145.3	PDDH	25.5		
		80PYH11	Pyrite Hill	103.1	PDDH	18		
		80PYH12	Pyrite Hill	109.5	PDDH	4.2		
		80BGH05	Big Hill	54.86	RCDDH	45.5		
		80BGH06	Big Hill	68.04	RCDDH	58		
		80BGH08	Big Hill	79.7	RCDDH	69.9		
		93MGM01	Pyrite Hill	70	RDDH	24		
		93MGM02	Pyrite Hill	180	RDDH	48		
		PDDH Dia RCDDH Dia RDDH Dia RC Rev	mond drill hole wit mond drill hole wit verse Circulation d eochemistry ha available for dril	h percussion pre-co h reverse circulation h rotary air blast pre rill hole s been used to ling completed b	n pre-collar e-collar verify geologic			
			completed pos	ce trays of chips t 2010 have bee				





Criteria	JORC Code Explanation	Commentary
Sub-sampling techniques and sample preparation	 If core, whether cut or sawn and whether quarter, half or all core taken. If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry. For all sample types, the nature, quality and appropriateness of the sample preparation technique. Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples. 	Diamond Drilling (DDH) Pre-1990 Core samples were hand-split or sawn with re-logging of available historical core (see Logging) indicating a 70:30 (retained:assayed) split was typical. The variation of sample ratios noted are considered consistent with the sub-sampling technique (hand-splitting). No second half samples were submitted for analysis. It is considered water used for core cutting is unprocessed and unlikely to have introduced sample contamination. Procedures relating to the definition of the line of cutting or splitting are not available. It is expected that 'standard industry practice' for the period was applied to maximize sample representivity. Post-1990 NQ drilling core was sawn with half core submitted for assay.

Measures taken to ensure that

the sampling is representative

including for instance results

for field duplicate/second-half

appropriate to the grain size of the material being sampled.

Whether sample sizes are

sampling.

of the in situ material collected,

- ling core was sawn with half core submitted for assay.
- HQ drilling core was sawn with quarter core submitted for assay.
- No second half samples were submitted for analysis.
- It is considered water used for core cutting is unprocessed and unlikely to have introduced sample contamination.
- Procedures relating to the definition of the line of cutting or splitting are not available. It is expected that 'standard industry practice' for the period was applied to maximise sample representivity.

2016 Metallurgical Drilling

- All HQ drill core was sawn into halves, with each half then re-sawn to provide 4 lengths of quarter core for each interval.
- One half core was submitted for assav.
- One quarter core was submitted for metallurgical test work.
- One quarter core was retained for archive.
- It is considered that the water used for core cutting is most unlikely to have introduced sample contamination.
- Sample sawing and processing for test work were undertaken according to 'standard industry practice' to maximise sample representivity.

2017 Diamond Drilling

- All HQ drill core was sawn into halves, with each half then re-sawn to provide 4 lengths of quarter core for each interval.
- One guarter one half core was submitted for assay.
- One quarter three quarter core was retained for archive and further metallurgical test work.
- It is considered that the water used for core cutting is most unlikely to have introduced sample contamination.
- Sample sawing and processing for test work were undertaken according to 'standard industry practice' to maximise sample representivity.

Reverse Circulation (RC) Drilling

- Sub-sampling of reverse circulation chips was achieved using a riffle splitter.
- During drilling operations, the splitter was regularly cleaned to prevent down hole sample contamination.
- Dry sampling was achieved with the use of adequate air, using a compressor and booster, where groundwater was encountered.

Historical Reverse Circulation Drilling

During reverse circulation drilling completed by Broken Hill Prospecting, duplicate samples were collected at the time of drilling. These were obtained by spearing the bulk material held in the PVC sacks using a spear made of 40mm diameter PVC pipe; three samples were speared through the full depth of the bulk material and these were combined to form one sample.





	÷										
Criteria	JORC Code Explanation				C	ommentary					
Sub-sampling techniques and sample preparation (continued)			field dup reflects a samples (31 drill h duplicate holes (43	licates co a ratio of a (3.1%) fo noles for 4 e in every 3 drill hole	ellected approxi or drill h 1469 m 42 san es for 58	during rever mately one foles where cetres) and an anples (2.4%) 301.5 metres	,	rilling. This every 32 collected fone field irculation drill			
			complete 86% of a chromium samples. side of ze	ed by Brok all field dup m, lanthan . For coba	ken Hill plicates lum and alt, the d le dupli	Prospecting) considered d titanium sho confidence lir	ollected during of (119 duplicates 18 elements of ow some bias in mits were evenly emed to be repro-	representing which only the duplicate placed either			
		201	17 Revers	e Circula	ation D	rilling					
		•	Prospect collected These w	ting/Coba d at the tir ere obtair	alt Blue ne of d ned by	Holdings, di rilling at an a	npleted by Broke uplicate sample average rate of ² the remnant bu it.	s were 1:23 samples.			
		•		sults inclu 3 RCDDH			field duplicate p	pairs from 96			
		•	preparat differenc below. C	ion and a e (MPD) a overall, the	ssaying assay v e samp	methods, galues of the ling and ass	of the sampling, given by the mea duplicate pairs i ay precision for regarded as rea	an per cent is summarised Co, Fe and S			
			Mean percent difference assay values of field duplicate pair collected during the 2017 reverse circulation drilling								
		Co	Cut-Off	Sample	Count	Cobalt MPD	Sulphur MPD	Iron MPD			
		All		630)	12%	14%	8%			
		50	Oppm	170)	10%	10%	7%			
			18 Drilling	_							
		Dia	mond Dri	-	00 0011	n into holyo	s, with each half	than ra cours			
			to provid	le 4 lengtl	ns of qu		or each interval.				
		•		core was			e and further me	etallurgical			
		•	It is cons	sidered th			or core cutting is ontamination.	s most			
		•		ig to 'stan			est work were un tice' to maximise				
		Re	verse Circ	culation [Drilling						
		•	Sub-sam cone spl		everse	circulation c	hips was achiev	ved using a			
		•				, the splitter le contamina	was regularly cl ation.	leaned to			
		•					use of adequate Indwater was er				
		•					licate samples v te of 1:18 samp				
		•	,	sults inclu RC drill ho		alysis of 43 fi	eld duplicate pa	airs from the			



Criteria Quality of assay data and laboratory tests

JORC Code Explanation

- The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.
- 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.
- Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.

Commentary

- The nature and quality of all assaying and laboratory procedures employed for samples obtained through drilling (diamond and reverse circulation) are considered 'industry standard' for the respective periods.
- The assay techniques employed for drilling (diamond and reverse circulation) include mixed acid digestion with ICP-OES and AAS finishes. These methods are considered appropriate for the targeted mineralisation and regarded as a 'near total' digestion technique with resistive phases not expected to affect cobalt analyses.
- All samples have been processed at independent commercial laboratories including AMDEL, Australian Laboratory Services (ALS), Analabs and Genalysis.
- All samples from drilling completed by Broken Hill Prospecting during 2011–2012 were assayed at ALS in Orange, New South Wales. All samples from drilling completed by Broken Hill Prospecting and Cobalt Blue Holdings during 2016-2017 were processed at ALS Adelaide, South Australia. ALS is a NATA Accredited Laboratory and qualifies for JAS/ANZ ISO9001:2008 quality systems. ALS also maintains internal QAQC procedures (including analysis of standards, repeats and blanks).
- QAQC procedures increased during the 2016–2018 resource definition drilling programs. To monitor the accuracy of assay results, CRM standards were included in the assay sample stream at an average rate of 1:24.
- Internal lab standards were routinely included by ALS Laboratories during the 2016–2018 drilling program. The Thackaringa drilling database includes the lab standards for all drilling completed from October 2017 at an average rate of 1:6 samples

2016-2017 CRM standard assay performance for cobalt, iron and sulphur

			Col	oalt			Sul	ohur			Iro	on	
Standard ID	Count	1SD	2SD	3SD	+3SD	1SD	2SD	3SD	+3SD	1SD	2SD	3SD	+3SD
OREAS 523 (728 ppm Co)	72	59	12	1	-	61	11	_	-	53	18	1	-
OREAS 521 (386 ppm Co)	61	49	10	1	1	50	10	1	-	53	7	1	-
OREAS 166 (1970 ppm Co)	128	103	24	-	1	19	22	19	68	67	7	52	2
OREAS 165 (2445 ppm Co)	120	102	17	_	1	15	36	38	31	74	38	7	1
OREAS 163 (230 ppm Co)	140	110	25	4	1	4	6	14	116	23	91	24	2
OREAS 162 (631 ppm Co)	152	114	33	5	_	32	41	33	46	108	37	7	_
OREAS 160 (2.8 ppm Co)	121	104	10	2	5	40	49	30	2	83	_	_	38

2017 lab standard assay performance for cobalt, iron and sulphur as recorded in the Thackaringa database from October 2017

			Col	oalt			Sul	phur			Ire	on	
Standard ID	Count	1SD	2SD	3SD	+3SD	1SD	2SD	3SD	+3SD	1SD	2SD	3SD	+3SD
OREAS 902 (926 ppm Co)	125	39	51	28	7	114	11	-	-	86	31	8	-
OREAS 601 (5.14 ppm Co)	220	199	15	4	2	197	23	_	-	182	35	3	-
OREAS 24b (16.9 ppm Co)	439	288	142	8	1	282	123	31	3	382	27	30	-
OGGeo08 (100 ppm Co)	219	152	63	4	-	208	11	_	_	202	17	-	-
MRGeo08 (19.5 ppm Co)	222	172	47	2	1	144	78	_	_	18	52	99	53
GBM915-8 (1082 ppm Co)	127	110	17	_	_	_	_	_	_	_	_	_	_
GBM908-10 (27 ppm Co)	223	222	_	1	_	_	_	_	_	-	_	_	_





Criteria	JORC Code Explanation		C	ommentary						
Quality of assay data and laboratory tests		 Lab repeats were routinely completed by ALS Laboratories during the 2017 drilling program. The Thackaringa drilling database includes the repeat assays for all drilling completed from October 2017 at an average rate of 1:16 samples for a total of 715 repeat pairs. Mean percent difference assay values of lab repeat pairs analysed 								
(continued)			luring the 2017 dri							
		Co Cut-Off	Sample Count	Cobalt MPD	Sulphur MPD	Iron MPD				
		All	715 (637)1	3%	3%	2%				
		500ppm	179 (102)1	2%	2%	2%				
			of CRM standard eats for the curren ing.							
Verification of sampling and assaying	 The verification of significant intersections by either independent or alternative company personnel. The use of twinned holes. Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. Discuss any adjustment to assay data. 	employ Central Prosper The Tha Microso holes is (typicall assays Historic re-form Quantit capture validatic Sample detectic All signi	al drilling intersected by previous ex Austin Pty Limite cting has completed ackaring a drilling off Access databastored in digital fay including locatic and petrology). all drilling data avanted and importantive historical drid electronically don completed by a returning assay on limit values in the ficant intersection Manager and	splorers included and Hunter ted a systema database exisuse. Informatic illes as extract on plan, section plan, section plan, section data, incluring systema Broken Hill Pros below detected atabase. In a are verified	ling CRAE Pty L Resources. Broatic review of the sts in electronic on related to include from historic on, logs, photos tronic form has lling database. uding assays, hatic data compile ospecting. ction limits are a	Limited, oken Hill er related data. form as a dividual drill cal reports s, surveys, been have been ation and assigned half my's				
Location of data points	 Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation. Specification of the grid system used. Quality and adequacy of topographic control. 	ential G the pos During: holes a: was loc georefe the coll: Down h post 20 estimat was no All 2016 DGPS t ±0.05m All FY20 and sur accurace Downhe FY2017 All data 3D valic geologi Microm The qua	al drill collars have PS (DGPS). In the ition has been derected by the ition has been derected by the ition has been derected by the ition has been desected by the ition of drilling. Down the ition of the collars had been desected by an independent in horizontal and the ition of the collars when the ition of drilling down of the itine™ software. The ition of the resulting of the ition of the resulting of the ition of the resulting in the ition of the resulting of the ition of the resulting of the ition of the resulting in the ition of the resulting of the ition of the resulting in the ition of the iting of t	e instances whereved from geo- decided from geo- geo- decided from geo- decided from geo- geo- geo- geo- geo- geo- geo- geo-	nere no collar co preferenced historical pleted in 2016, prectly located. It was were digited to the neares are swere compli- for some earlier data where ray cocated and survey of the reported accissurement in this release were completed by in a were completed by in alled geological eemed adequate	auld be located orical plans. Ithree (3) drill One collar tised from the metre) as seted on all redrilling were wounded with a very data or were located to with reported ement of the down all seted on				





Criteria	JORC Code Explanation	Commentary
Location of data points (continued)		 2018 Drilling Program All drill hole collars presented in this release were located by handheld GPS with an estimated accuracy of ±3m in horizontal and vertical measurement. Drill hole collars will be surveyed by an independent surveyor using a DGPS on program completion. Downhole surveys using digital cameras were completed on all drill holes.
Data spacing and distribution	 Data spacing for reporting of Exploration Results. 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. Whether sample compositing has been applied. 	 The data density of existing drill holes at Thackaringa has been materially increased by the 2016–2018 drilling programs. Drilling density at each deposit varies along strike generally responsive to exploration targeting and interpreted geological complexity with the average drill line spacing for each deposit summarised below: Railway: 25–40m Pyrite Hill: 30–40m Big Hill: 40–60m Drilling density is also illustrated in drilling plans presented within this release Detailed geological mapping is supported by drill-hole data of sufficient spacing and distribution to complete a 3D geological modelling and Mineral Resource estimation No sample compositing has been applied to reported intersections
Orientation of data in relation to geological structure	 Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. 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. 	 The 2016–2017 drill holes at the Thackaringa project were typically angled at -55° or -60° to the horizontal and drilled perpendicular to the mineralised trend. Drilling orientations are adjusted along strike to accommodate folded geological sequences. Mineralisation at the Big Hill and Railway prospects is steeply dipping and consequently mineralised intersections will be greater than true width. At Pyrite Hill mineralisation is gently dipping and mineralised intersections will be close to true width. The drilling orientation is not considered to have introduced a sampling bias on assessment of the current geological interpretation.
Sample security	The measures taken to ensure sample security.	 Sample security procedures are considered to be 'industry standard' for the respective periods. Following recent drilling completed by Broken Hill Prospecting/ Cobalt Blue Holdings, samples were trucked by an independent courier directly from Broken Hill to ALS, Adelaide. The Company considers that risks associated with sample security are limited given the nature of the targeted mineralisation.





Criteria	JORC Code Explanation		Commentary
Audits or reviews	The results of any audits or reviews of sampling techniques	•	In late 2016 an independent validation of the Thackaringa drilling database was completed:
	and data.		 The data validation process consisted of systematic review of drilling data (collars, assays and surveys) for identification of transcription errors.
			 Following review, historical drill hole locations were also validated against georeferenced historical maps to confirm their location.
			Three (3) drill holes at Big Hill were found to be incorrectly located. One collar was located and surveyed by GPS and two were digitised from georeferenced historical plans (reported to the nearest metre) as the collars had been destroyed. These corrections were captured in the Big Hill Mineral Resource estimate.
			 Total depths for all holes were checked against original reports.
			Final 3D validation of drilling data has been completed by independent geological consultants to support detailed geological modelling in Micromine™ software.
		•	Audits and reviews of QAQC results and procedures are further described in preceding sections of this table including Quality of assay data and laboratory tests , Sub-sampling techniques and sample preparation and Logging .





Section 2 Reporting of Exploration Results (Criteria listed in the preceding section also apply to this section.)

Criteria		JORC Code Explanation	cion Commentary				
Mineral tenement and land		Type, reference name/number, location and ownership including agreements or material	•	25 kilometre	ringa Cobalt proje s west-southwes nts with a total ar	t of Broken Hill a	
tenure status		issues with third parties such as joint ventures, partnerships,		Tenement	Grant Date	Expiry Date	
		overriding royalties, native		EL6622	30/08/2006	30/08/2020	
		title interests, historical sites, wilderness or national park and		EL 8143	26/07/2013	26/07/2020	
		environmental settings.		ML86	05/11/1975	05/11/2022	
	•	The security of the tenure held		ML87	05/11/1975	05/11/2022	
		at the time of reporting along with any known impediments to obtaining a licence to operate in	•		residence (Thack kilometres west	,	s located approxi-
		the area.	•		ansected by the ocated the north		Railway; the Barrier bundaries.
			•	Lease which However, Na Traditional C	n is considered to ative Title Determi Owners 8) is curre	extinguish nativ nation NC97/32 nt over the area	
			•	National Par and approxi	k and or Wilderne mately 20 kilomet	ess Area (Kinche res south of the	from the nearest ega National Park) nearest Water (ater Supply Reserve)
			•	•	ny is not aware of perate in the area		its to obtaining a
Exploration done by other parties	•	Acknowledgment and appraisal of exploration by other parties.	•	undertaken the JORC Ta	•	2016 drilling prod s part of the Co	tion activities gram is appended to balt Blue Prospectus





Criteria	JORC Code Explanation	Commentary
Geology	Deposit type, geological setting and style of mineralisation.	 Regional Geological Setting The Thackaringa project is located in a deformed and metamorphosed Proterozoic supracrustal succession named the Willyama Supergroup, which is exposed as several inliers in western New South Wales, including the Broken Hill Block (Willis, et al., 1982). Exploration by BPL Limited has been focused on the discovery of cobaltiferous pyrite deposits and Broken Hill type base-metal mineralisation both of which are known from historical exploration in the district.
		The project area covers portions of the Broken Hill and Thackaringa group successions which host the majority of mineralisation in the region, including the Broken Hill base-metal deposit. The Sundown Group suite is also present. The extensive sequence of quartz-albite-plagioclase rock that hosts the cobaltiferous pyrite mineralisation is interpreted as belonging to the Himalaya Formation, which is stratigraphically at the top of the Thackaringa Group.
		Local Geological Setting The oldest rocks in the region belong to the Curnamona Craton
		 which outcrops on the Broken Hill and Euriowie blocks. The overlying Proterozoic rocks have been broadly subdivided into three major groupings, of which the oldest groups are the highly deformed metasediments and igneous derived rocks of the Thackaringa and Broken Hill groups. They comprise a major part of the Willyama Supergroup and host the giant Broken Hill massive Pb-Zn-Ag sulphide ore body. EL6622 is within the Broken Hill block of the Curnamona Craton.
		Mineralisation Style
		 The Thackaringa Mineral deposits (Pyrite Hill, Big Hill and Railway) are characterised by large tonnage cobaltiferous-pyrite minerali- sation hosted within siliceous albitic gneisses and schists of the Himalaya Formation.
		 Cobalt mineralisation exists within stratabound pyritic horizons where cobalt is present within the pyrite lattice. Mineralogical studies have indicated the majority of cobalt (~85%) is found in solid solution with primary pyrite (Henley 1998).
		 A strong correlation between pyrite content and cobalt grade is observed.
		 The regional geological setting indicates additional mineralisation targets including:
		 Stratiform Broken Hill Type (BHT) Copper-Lead-Zinc-Silver deposits.
		Copper-rich BHT deposits.
		Stratiform to stratabound Copper-Cobalt-Gold deposits.Epigenetic Gold and Base metal deposits.
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 Material drill holes: easting and northing of the drill hole collar elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar dip and azimuth of the hole 	See drill hole summaries below.
	down hole length and interception depth	





Drill hole summaries

Hala ID	Donosit	Max Depth	NAT Crid ID	Easting	Northing	DI	Din	Azimuth	Holo Typo	Pre-Collar
Hole ID	Deposit	(m)	NAT Grid ID	Easting	Northing	RL	Dip	Azimuth	Hole Type	Depth
67TH01	Pyrite Hill	304.2	MGA94_54	518565	6449460	281	-55	261	DDH	
70TH02	Pyrite Hill	148.6	MGA94_54	518272	6449681	284	-61	219	DDH	
70TH03	Pyrite Hill	141.4	MGA94_54	518450	6449212	290	-62	284	DDH	
70BH01	Big Hill	102.7	MGA94_54	520851	6449309	285	-47	319	DDH	
70BH02	Big Hill	103.9	MGA94_54	520786	6449264	280	-50	319	DDH	
80PYH13	Pyrite Hill	77	MGA94_54	518358	6449038	290	-50	281	DDH	
80PYH14	Pyrite Hill	300.3	MGA94_54	518661	6449288	278	-60	281	DDH	
80PYH03	Pyrite Hill	35	MGA94_54	518252	6449570	299	-60	221	PDDH	22
80BGH09	Big Hill	100.5	MGA94_54	520657	6449293	273	-50	145	DDH	
80PYH01	Pyrite Hill	24.53	MGA94_54	518246	6449566	301	-60	203	PDDH	6
80PYH02	Pyrite Hill	51.3	MGA94_54	518261	6449574	298	-60	221	PDDH	33.58
80PYH04	Pyrite Hill	55	MGA94_54	518367	6449232	308	-60	296	PDDH	38.7
80PYH05	Pyrite Hill	93.6	MGA94_54	518227	6449678	285	-49	223	PDDH	18
80PYH06	Pyrite Hill	85.5	MGA94_54	518163	6449757	284	-54.4	223	PDDH	18
80PYH07	Pyrite Hill	94.5	MGA94_54	518084	6449818	285	-55	223	PDDH	12
80PYH08	Pyrite Hill	110	MGA94_54	518010	6449885	286	-60	223	PDDH	8
80PYH09	Pyrite Hill	100.5	MGA94_54	517917	6449932	287	-48.5	223	PDDH	8
80PYH10	Pyrite Hill	145.3	MGA94_54	518393	6449566	286	-50	223	PDDH	25.5
80PYH11	Pyrite Hill	103.1	MGA94_54	518441	6449330	297	-50	281	PDDH	18
80PYH12	Pyrite Hill	109.5	MGA94_54	518407	6449137	293	-50	281	PDDH	4.2
80BGH05	Big Hill	54.86	MGA94_54	520955	6449534	289	-60	164	RCDDH	45.5
98TC01	Railway	100	MGA94_54	522750	6451340	267	-60	159	RC	
98TC02	Railway	100	MGA94_54	522392	6451387	267	-60	141	RC	
98TC03	Big Hill	84	MGA94_54	520816	6449369	313	-60	136	RC	
98TC04	Big Hill	138.25	MGA94_54	520860	6449451	304	-60	141	RC	
98TC05	Big Hill	70	MGA94_54	520728	6449328	289	-50	123	RC	
98TC06	Big Hill	108	MGA94_54	520715	6449343	285	-60	126	RC	
98TC07	Big Hill	120	MGA94_54	520786	6449388	299	-50	134	RC	
98TC08	Big Hill	90	MGA94_54	520802	6449478	291	-60	151	RC	
98TC09	Big Hill	114	MGA94_54	520822	6449461	296	-60	134	RC	
98TC10	Big Hill	134	MGA94_54	521018	6449576	282	-50	173	RC	
98TC11	Railway	35	MGA94_54	522411	6451374	267	-60	133	RC	
80BGH06	Big Hill	68.04	MGA94_54	520880	6449472	299	-60	171	RCDDH	58
80BGH08	Big Hill	79.7	MGA94_54	520769	6449391	296	-60	127	RCDDH	69.9
80BGH07	Big Hill	23	MGA94_54	521137	6449599	274	-60	178	RC	
93MGM01	Pyrite Hill	70	MGA94_54	518185	6449714	286	-60	223	RDDH	24
93MGM02	Pyrite Hill	180	MGA94_54	518515	6449455	285	-60	259	RDDH	48
11PHR01	Pyrite Hill	150	MGA94_54	518435	6449073	285	-60	279	RC	
11PHR02	Pyrite Hill	198	MGA94_54	518500	6449159	284	-60	279	RC	
11PHR03	Pyrite Hill	240	MGA94_54	518560	6449190	280	-60	279	RC	
11PHR04	Pyrite Hill	186	MGA94_54	518529	6449257	284	-60	279	RC	
11PHR05	Pyrite Hill	234	MGA94_54	518584	6449398	280	-60	259	RC	
11PHR06	Pyrite Hill	180	MGA94_54	518491	6449523	284	-60	234	RC	
11PHR07	Pyrite Hill	174	MGA94_54	518413	6449593	283	-60	219	RC	
11PHR08	Pyrite Hill	180	MGA94_54	518343	6449656	283	-60	218	RC	
11PSR01	Pyrite Hill	59	MGA94_54	518743	6448864	268	-60	258	RC	
11PSR02	Pyrite Hill	132	MGA94_54	518719	6448960	270	-60	255	RC	
11PSR03	Pyrite Hill	78	MGA94_54	518687	6449055	273	-60	255	RC	
12BER01	Railway	157	MGA94_54	521667	6449893	278	-60	141	RC	
12BER02	Railway	132	MGA94_54	521213	6449691	274	-60	162	RC	
12BER03	Railway	151	MGA94_54	521879	6450435	289	-60	102	RC	
12BER04	Railway	148	MGA94_54	522354	6451268	274	-60	131	RC	
	,		::					-	-	

DDH Diamond drill hole

PDDH Diamond drill hole with percussion pre-collar

RCDDH Diamond drill hole with reverse circulation pre-collar

RDDH Diamond drill hole with rotary air blast pre-collar





12BER05 Railway 145 MGA94_54 522439 6451168 300 -60 124 RC 12BER06 Railway 169 MGA94_54 522481 6451091 296 -60 118 RC 12BER07 Railway 115 MGA94_54 522324 6450749 278 -60 129 RC 12BER08 Railway 193 MGA94_54 522221 6450812 273 -60 129 RC 12BER09 Railway 193 MGA94_54 522101 6450881 276 -60 129 RC 12BER10 Railway 151 MGA94_54 522101 6451377 266 -60 153 RC 12BER11 Railway 193 MGA94_54 522737 6451377 266 -60 153 RC 12BER12 Railway 111 MGA94_54 5223125 6451637 277 -60 153 RC 12BER13 Railway			Max Depth								Pre-Collar
128ERFIOR Railway 1199 McGA94_54 522241 6451091 296 4-60 118 RC	Hole ID	Deposit	(m)	NAT Grid ID	Easting	Northing	RL	Dip	Azimuth	Hole Type	Depth
1928BR07 Railway 115 MGA94_54 522224 G450012 273 -60 129 RC	12BER05	Railway	145	MGA94_54	522439	6451168	300	-60	124	RC	
	12BER06	Railway		MGA94_54	522481	6451091					
128ER10 Railway 151 MGA94_54 521913 645081 276 -60 129 RC	12BER07	Railway	115	MGA94_54	522324	6450749	278	-60	144	RC	
128ER11	12BER08	Railway	193	MGA94_54	522221	6450812	273	-60	129	RC	
128ER12 Railway 111 MGA94_54 522737 6451577 277 -60 153 RC	12BER09	Railway	139.75	MGA94_54	522101	6450881	276	-60	129	RC	
12BER13 Railway 151	12BER10	Railway	151	MGA94_54	521953	6450716	284	-60	129	RC	
	12BER11	Railway	193	MGA94_54	522737	6451377	266	-60	153	RC	
	12BER12	Railway	111	MGA94_54	522910	6451517	277	-60	153	RC	
128ER16	12BER13	Railway	205	MGA94_54	522884	6451558	271	-60	156	RC	
12BER16	12BER14	Railway	151	MGA94_54	523125	6451637	288	-60	152	RC	
12BER17	12BER15	Railway	109	MGA94_54	523311	6451842	284	-60	154	RC	
12BER18	12BER16	Railway	115	MGA94_54	522994	6451592	276	-60	156	RC	
12BER19	12BER17	Railway	115.5	MGA94_54	522517	6451315	269	-60	153	RC	
12BER20	12BER18	Railway	157	MGA94_54	522333	6451281	272	-60	129	RC	
13BEDO1	12BER19	Railway				6451067		-60			
16DMO1	12BER20	Railway		MGA94_54	521292	6449734		-60	165	RC	
16DM02	13BED01	Railway	349.2		522480	6451092	296	-60		DDH	
16DM03 Big Hill 126.5 MGA94_54 521037 6449567 283 -60 159 DDH 16DM04 Big Hill 105.4 MGA94_54 520815 6449464 296 -55 129 DDH 16DM05 Railway 246.5 MGA94_54 522104 6450882 277 -60 129 DDH 16DM06 Railway 160.4 MGA94_54 522912 6451519 279 -60 153 DDH 16DM07 Railway 242.5 MGA94_54 522995 6451519 279 -60 156 DDH 16DM08 Railway 288.5 MGA94_54 522391 6451273 274 -60 131 DDH 17THD01 2791te Hill 149.7 MGA94_54 518382 6449551 289 -40 222 DDH 17THD02 Pyrite Hill 149.7 MGA94_54 518382 6449551 289 -40 225 DDH 17THD03 Pyrite Hill 78.5 MGA94_54 518370 6449190 303 -40 285 DDH 17THD04 Big Hill 119.8 MGA94_54 521669 6449889 278 -45 155 DDH 17THD06 Railway 165.5 MGA94_54 521669 6449889 279 -40 131 DDH 17THD07 Railway 132.5 MGA94_54 522569 6451282 271 -45 157 DDH 17THD07 Railway 132.5 MGA94_54 5222905 6451569 287 -45 130 DDH 17THD08 Railway 132.5 MGA94_54 5222905 6451569 280 -45 326 DDH 17THD10 Railway 132.5 MGA94_54 5222905 6451682 281 -40 161 DDH 17THD10 Railway 120.5 MGA94_54 522905 6451682 281 -40 161 DDH 17THD11 Railway 126.5 MGA94_54 5222905 6451682 281 -40 161 DDH 17THD12 Railway 126.5 MGA94_54 5222905 6451682 281 -40 161 DDH 17THD14 Pyrite Hill 99 MGA94_54 522836 6451682 281 -40 161 DDH 17THD14 Pyrite Hill 99 MGA94_54 522296 6451682 281 -40 161 DDH 17THD14 Pyrite Hill 99 MGA94_54 522236 6451682 281 -40 161 DDH 17THD14 Pyrite Hill 99 MGA94_54 522236 6451682 281 -40 161 DDH 17THD14 Pyrite Hill 99 MGA94_54 52236 6451682 281 -40 161 DDH 17THD14 Pyrite Hill 99 MGA94_54 522569 6451682 281 -40 161 DDH 17THD14 Pyrite Hill 99 MGA94_54 522569 6451682	16DM01	Pyrite Hill			518411	6449594				DDH	
16DM04 Big Hill 105.4 MGA94_54 520815 6449464 296 -55 129 DDH 16DM05 Railway 246.5 MGA94_54 522104 6450882 277 -60 129 DDH 16DM06 Railway 160.4 MGA94_54 522912 6451519 279 -60 153 DDH 16DM06 Railway 242.5 MGA94_54 522995 6451598 276 -60 156 DDH 16DM08 Railway 258.5 MGA94_54 522951 6451573 274 -60 131 DDH 17THD01 Pyrite Hill 124.2 MGA94_54 518370 6449551 289 -40 222 DDH 17THD02 Pyrite Hill 78.5 MGA94_54 518370 6449454 291 -40 258 DDH 17THD03 Pyrite Hill 119.8 MGA94_54 518370 6449190 303 -40 228 DDH 17THD04 Big Hill 119.8 MGA94_54 518370 6449189 278 -45 155 DDH 17THD05 Big Hill 19.5 MGA94_54 521669 6449889 279 -40 131 DDH 17THD06 Railway 165.5 MGA94_54 521669 6449889 279 -40 131 DDH 17THD07 Railway 125.5 MGA94_54 522569 6451282 271 -45 157 DDH 17THD08 Railway 132.5 MGA94_54 522569 6451282 271 -45 157 DDH 17THD08 Railway 120.5 MGA94_54 522905 6451569 280 -45 326 DDH 17THD17 Railway 111.5 MGA94_54 522905 6451569 280 -45 330 DDH 17THD17 Railway 111.5 MGA94_54 522905 6451682 281 -40 161 DDH 17THD17 Railway 115.5 MGA94_54 522905 6451682 281 -40 161 DDH 17THD17 Railway 105.5 MGA94_54 522796 6451680 277 -40 139 DDH 17THD18 Railway 105.5 MGA94_54 522796 6451680 277 -40 139 DDH 17THD18 Railway 105.5 MGA94_54 522836 6451456 277 -40 139 DDH 17THD19 Railway 105.5 MGA94_54 522836 6451456 277 -40 139 DDH 17THD19 Railway 105.5 MGA94_54 522836 6451456 277 -40 139 DDH 17THD19 Railway 105.5 MGA94_54 522836 6451456 277 -40 130 RC 17THR000 Railway 160 MGA94_54 522836 6451277 6451280 284 -60 120 RC 17THR000 Railway 150 MGA94_54 522836 6451289 286	16DM02	-			518527	6449262	284	-60			
16DM05 Railway 246.5 MGA94_54 522104 6450882 277 -60 129 DDH 16DM06 Railway 160.4 MGA94_54 522912 6451519 279 -60 153 DDH 16DM07 Railway 242.5 MGA94_54 522995 6451598 276 -60 153 DDH 16DM08 Railway 258.5 MGA94_54 522351 6451273 274 -60 131 DDH 17THD01 Pyrite Hill 149.7 MGA94_54 518382 6449551 289 -40 222 DDH 17THD02 Pyrite Hill 149.7 MGA94_54 518370 6449190 303 -40 285 DDH 17THD03 Big Hill 119.8 MGA94_54 521669 6449889 279 -40 131 DDH 17THD06 Railway 165.5 MGA94_54 521669 6450705 287 -45 128 DDH 17THD08 <td>16DM03</td> <td></td> <td></td> <td></td> <td></td> <td>6449567</td> <td></td> <td></td> <td></td> <td></td> <td></td>	16DM03					6449567					
16DM06 Railway 160.4 MGA94_54 522912 6451519 279 -60 153 DDH 16DM07 Railway 242.5 MGA94_54 522995 6451598 276 -60 156 DDH 16DM08 Railway 258.5 MGA94_54 522995 6451273 274 -60 131 DDH 17THD01 Pyrite Hill 149.7 MGA94_54 518382 6449551 289 -40 222 DDH 17THD02 Pyrite Hill 149.7 MGA94_54 518370 6449485 291 -40 258 DDH 17THD03 Pyrite Hill 78.5 MGA94_54 518370 6449889 278 -45 155 DDH 17THD04 Big Hill 119.8 MGA94_54 521078 6449889 279 -40 131 DDH 17THD06 Railway 165.5 MGA94_54 521970 6450705 287 -45 128 DDH 17THD0	16DM04	Big Hill			520815	6449464	296	-55			
16DMO7 Railway 242.5 MGA94_54 522995 6451598 276 -60 156 DDH 16DM08 Railway 258.5 MGA94_54 522351 6451273 274 -60 131 DDH 17THD01 Pyrite Hill 124.2 MGA94_54 518382 6449551 289 -40 222 DDH 17THD02 Pyrite Hill 78.5 MGA94_54 518370 6449190 303 -40 285 DDH 17THD04 Big Hill 119.8 MGA94_54 518370 6449190 303 -40 285 DDH 17THD05 Big Hill 119.8 MGA94_54 521078 6449589 278 -45 155 DDH 17THD05 Big Hill 99.5 MGA94_54 521078 6450889 279 -40 131 DDH 17THD07 Railway 165.5 MGA94_54 5221669 6451282 271 -45 157 DDH 17THD08	16DM05	Railway		MGA94_54		6450882					
16DM08 Railway 258.5 MGA94_54 522351 6451273 274 -60 131 DDH 17THD01 Pyrite Hill 124.2 MGA94_54 518382 6449551 289 -40 222 DDH 17THD02 Pyrite Hill 149.7 MGA94_54 518475 6449445 291 -40 258 DDH 17THD03 Pyrite Hill 119.8 MGA94_54 518370 6449190 303 -40 285 DDH 17THD03 Big Hill 19.8 MGA94_54 521078 6449889 279 -40 131 DDH 17THD06 Railway 165.5 MGA94_54 521970 6450705 287 -45 128 DDH 17THD07 Railway 132.5 MGA94_54 522569 6451282 271 -45 157 DDH 17THD07 Railway 120.5 MGA94_54 522906 6451280 269 -45 326 DDH 17TH	16DM06	Railway		MGA94_54		6451519				DDH	
17THD01	16DM07	Railway				6451598				DDH	
17THD02	16DM08	Railway									
17THD03 Pyrite Hill 78.5 MGA94_54 518370 6449190 303 -40 285 DDH 17THD04 Big Hill 119.8 MGA94_54 521078 6449589 278 -45 155 DDH 17THD05 Big Hill 99.5 MGA94_54 521669 6449889 279 -40 131 DDH 17THD06 Railway 165.5 MGA94_54 521970 6450705 287 -45 128 DDH 17THD07 Railway 132.5 MGA94_54 522784 6451282 271 -45 157 DDH 17THD08 Railway 132.5 MGA94_54 522784 6451280 269 -45 326 DDH 17THD01 Railway 120.5 MGA94_54 522990 6451569 280 -45 130 DDH 17THD11 Railway 111.5 MGA94_54 522992 6451682 281 -40 161 DDH 17THD11 <td>17THD01</td> <td></td>	17THD01										
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17THR011 Railway 126 MGA94_54 522302 6451169 277 -56 120 RC		-									
		-									
1/THKU12 Kailway 180 MGA94_54 522440 6451304 275 -58 173 RC		-									
	1/IHR012	Kailway	180	MGA94_54	522440	6451304	275	-58	173	RC	

DDH Diamond drill hole

PDDH Diamond drill hole with percussion pre-collar

RCDDH Diamond drill hole with reverse circulation pre-collar

RDDH Diamond drill hole with rotary air blast pre-collar





11-1-15	D	Max Depth	NAT OCH ID	F	No allata a	DI.	D:	A	U-1- T	Pre-Collar
Hole ID	Deposit	(m)	NAT Grid ID	Easting	Northing	RL	Dip	Azimuth	Hole Type	Depth
17THR013	Big Hill	102	MGA94_54	521750	6449942	285	-60	131	RC	
17THR014	Big Hill	104	MGA94_54	521628	6449796	278	-53	130	RC	
17THR015	Big Hill	108	MGA94_54	521793	6449918	285	-58	310	RC	
17THR016	Pyrite Hill	138	MGA94_54	518446	6449209	290	-57	283	RC	
17THR017	Pyrite Hill	120	MGA94_54	518449	6449263	293	-56	282	RC	
17THR018	Pyrite Hill	78	MGA94_54	518027	6449806	290	-60	222	RC	
17THR019	Pyrite Hill	72	MGA94_54	518105	6449754	288	-55	222	RC	
17THR020	Pyrite Hill	66	MGA94_54	518166	6449695	289	-60	222	RC	
17THR021	Pyrite Hill	78	MGA94_54	518183	6449717	286	-60	222	RC	
17THR022	Pyrite Hill	156	MGA94_54	518510	6449306	287	-55	281	RC	
17THR023	Pyrite Hill	150	MGA94_54	518506	6449377	289	-57	265	RC	
17THR024	Pyrite Hill	150	MGA94_54	518457	6449498	288	-59.5	229	RC	
17THR025	Pyrite Hill	114	MGA94_54	518311	6449609	287	-60	222	RC	
17THR026	Pyrite Hill	114	MGA94_54	518268	6449681	284	-60	222	RC	
17THR027	Pyrite Hill	72	MGA94_54	518243	6449646	287	-60	222	RC	
17THR028	Railway	150	MGA94_54	522457	6451167	301	-60	350	RC	
17THR029	Railway	162	MGA94_54	522482	6451084	296	-60	175	RC	
17THR030	Railway	138	MGA94_54	522783	6451423	271	-55	140	RC	
17THR031	Railway	120	MGA94_54	522945	6451566	276	-55	145	RC	
17THR032	Railway	132	MGA94_54	522819	6451473	274	-53	140	RC	
17THR033	Railway	120	MGA94_54	522501	6451315	270	-60	175	RC	
17THR034	Railway	132	MGA94_54	522321	6451214	276	-55	127	RC	
17THR035	Railway	156	MGA94_54	522259	6451120	276	-55.2	130	RC	
17THR036	Railway	92	MGA94_54	522186	6450998	275	-61.2	130	RC	
		126				273	-55	126	RC	
17THR037 17THR038	Railway Railway	168	MGA94_54	522148 521927	6450941 6450619	290	-55	108	RC	
17THD015		81.6	MGA94_54	522038	6450826	279	-80	304	DDH	
	Railway		MGA94_54				-70		DDH	
17THD016	Railway	176.9	MGA94_54	522089	6450774	287		122		
17THD017	Railway	255.9	MGA94_54	522615	6451279	268	-80	350	DDH	
17THD018	Railway	72.5	MGA94_54	523013	6451491	295	-70	150	DDH	
17THD019	Railway	151.3	MGA94_54	522667	6451229	267	-70	140	DDH	
17THD020	Railway	121.7	MGA94_54	523052	6451545	290	-55	310	DDH	
17THD021	Big Hill	100	MGA94_54	521708	6449928	281	-50	133	DDH	
17THD022	Big Hill	70	MGA94_54	521618	6449729	278	-56	316	DDH	
17THD023	Big Hill	99.5	MGA94_54	521164	6449537	275	-55	337	DDH	
17THD024	Railway	69.6	MGA94_54	521164	6449536	275	-80	150	DDH	
17THD025		24.2	MGA94_54	518588	6449334	281	-75	90	DDH	
17THD026	Pyrite Hill	240.7	MGA94_54	518586	6449334	281	-55	272	DDH	
17THD027	Big Hill	141.6	MGA94_54	520947	6449513	294	-75	130	DDH	
17THD028	Big Hill	171.7	MGA94_54	520862	6449317	285	-56	321	DDH	
17THD029	Pyrite Hill	200.5	MGA94_54	518489	6449338	290	-70	90	DDH	
17THD030	Pyrite Hill	201.5	MGA94_54	518351	6449706	281	-55	222	DDH	
17THD031	Pyrite Hill	229	MGA94_54	518289	6449629	287	-65	50	DDH	
17THR039	Railway	210	MGA94_54	522477	6451299	274	-55.8	168.7	RC	
17THR040	Railway	276	MGA94_54	522528	6451300	270	-55	164	RC	
17THR041	Railway	210	MGA94_54	522692	6451244	265	-55	339	RC	
17THR042	Railway	234	MGA94_54	522588	6451160	283	-55	336	RC	
17THR043	Railway	200	MGA94_54	522531	6451185	289	-55	341	RC	
17THR044	Railway	180	MGA94_54	522420	6451159	298	-55	311	RC	
17THR045	Railway	210	MGA94_54	522526	6451168	290	-55	311	RC	
17THR046	Railway	216	MGA94_54	522501	6451203	291	-56	311	RC	

DDH Diamond drill hole

PDDH Diamond drill hole with percussion pre-collar

RCDDH Diamond drill hole with reverse circulation pre-collar

RDDH Diamond drill hole with rotary air blast pre-collar





Hole ID	Deposit	Max Depth (m)	NAT Grid ID	Easting	Northing	RL	Dip	Azimuth	Hole Type	Pre-Colla Depth
17THR047	Railway	246	MGA94_54	522438	6451115	297	-55	311	RC	
17THR048	Railway	122	MGA94_54	522481	6451124	298	-55	310	RC	
7THR049	Railway	138	MGA94_54	522378	6451130	292	-55	310	RC	
7THR050	Railway	154	MGA94_54	522657	6451143	274	-63	344	RC	
7THR051	Railway	174	MGA94_54	522364	6451070	283	-55	308	RC	
7THR052	Railway	246	MGA94_54	522642	6451184	274	-55	334	RC	
7THR053	Railway	156	MGA94_54	522315	6451028	278	-55	314	RC	
7THR054	Railway	180	MGA94_54	522671	6451232	267	-60	333	RC	
7THR055	Railway	114	MGA94_54	522261	6450987	278	-55	313	RC	
7THR056	Railway	102	MGA94_54	522558	6451285	271	-55	158	RC	
7THR057	Railway	111	MGA94_54	522220	6450909	274	-55	308	RC	
7THR058	Railway	210	MGA94_54	522467	6451328	270	-55	160	RC	
7THR059	Railway	150	MGA94_54	522198	6450857	274	-55	306	RC	
7THR060	Railway	181	MGA94_54	523006	6451494	294	-55	331	RC	
7THR061	Railway	138	MGA94_54	522161	6450789	277	-55	307	RC	
7THR062	Railway	168	MGA94_54	522983	6451450	296	-60	327	RC	
7TRD063	Railway	169.5	MGA94_54	522137	6450725	280	-55	305	RCDDH	96.7
7THR064	Railway	171	MGA94_54	522931	6451403	295	-56.1	329	RC	30.1
7THR065	Railway	174	MGA94_54	522108	6450664	283	-55	304	RC	
7THR066	Railway	168	MGA94_54	522865	6451367	292	-60	318	RC	
7THR067	Railway	150	MGA94_54	522022	6450479	284	-50	291	RC	
7THR068	Railway	210	MGA94_54	522752	6451407	268	-60	148	RC	
		96		522008		301	-60	117	RC	
7THR069	Railway	228	MGA94_54		6450647		-60	300	RC	
7THR070	Railway		MGA94_54	522813	6451242	266			RC	
7THR071	Railway	142	MGA94_54	522070	6450846	279	-60	130		155.0
7TRD072	Railway	210	MGA94_54	522623	6451044	271	-60	320	RCDDH	155.6
7TRD073	Railway	195.4	MGA94_54	522035	6450817	280	-55	126	RCDDH	134.9
7THR074	Railway	300	MGA94_54	522572	6450985	271	-60	310	RC	
7THR075	Railway	148	MGA94_54	522013	6450770	283	-55	121	RC	
7THR076	Railway	300	MGA94_54	522479	6450945	272	-60	355	RC	
7THR077	Railway	180	MGA94_54	521993	6450743	285	-55	117	RC	
7THR078	Pyrite Hill	157	MGA94_54	518220	6449774	281	-60	222	RC	
7THR079	Railway	120	MGA94_54	521912	6450597	289	-55	116	RC	
7THR080	Pyrite Hill	67	MGA94_54	518024	6449782	292	-55	190	RC	
7THR081	Railway	184	MGA94_54	522340	6451239	276	-55	125	RC	
7THR082	Pyrite Hill	67	MGA94_54	517972	6449842	290	-55	222	RC	
7THR083	Railway	156	MGA94_54	522365	6451282	274	-55	133	RC	
7THR084	Pyrite Hill	97	MGA94_54	518343	6449588	287	-55	205	RC	
7THR085	Big Hill	210	MGA94_54	520878	6449523	287	-60	141	RC	
7THR086	Pyrite Hill	157	MGA94_54	518427	6449541	287	-55	218	RC	
7THR087	Pyrite Hill	181	MGA94_54	518466	6449587	282	-60	218	RC	
7THR088	Pyrite Hill	175	MGA94_54	518392	6449633	282	-55	213	RC	
7THR089	Big Hill	108	MGA94_54	521571	6449709	274	-60	141	RC	
7THR090	Big Hill	96	MGA94_54	521692	6449794	284	-55	312	RC	
7THR091	Pyrite Hill	211	MGA94_54	518424	6449679	279	-55	219	RC	
7THR092	Pyrite Hill	139	MGA94_54	518301	6449661	285	-55	219	RC	
7THR093	Pyrite Hill	151	MGA94_54	518270	6449732	281	-55	219	RC	
7THR094	Pyrite Hill	240	MGA94_54	518568	6449501	279	-60	253	RC	
7THR095	Pyrite Hill	205	MGA94_54	518509	6449194	283	-55	273	RC	
7THR096	Pyrite Hill	187	MGA94_54	518540	6449419	284	-60	257	RC	

DDH Diamond drill hole

PDDH Diamond drill hole with percussion pre-collar

RCDDH Diamond drill hole with reverse circulation pre-collar

RDDH Diamond drill hole with rotary air blast pre-collar





		Max Depth								Pre-Collar
Hole ID	Deposit	(m)	NAT Grid ID	Easting	Northing	RL	Dip	Azimuth	Hole Type	Depth
18THR001	Pyrite Hill	216	MGA94_54	518558	6449233	281	-60	270	RC	
18THR002	Pyrite Hill	208	MGA94_54	518516	6449229	283	-60	270	RC	
18THR003	Pyrite Hill	162	MGA94_54	518484	6449225	287	-60	270	RC	
18THR004	Pyrite Hill	180	MGA94_54	518476	6449191	287	-60	270	RC	
18THD001	Pyrite Hill	30.9	MGA94_54	518216	6449627	293	-60	226	DDH	
18THD002	Pyrite Hill	54.9	MGA94_54	518238	6449587	297	-60	226	DDH	
18THD003	Pyrite Hill	33.7	MGA94_54	518241	6449584	297	-60	316	DDH	

DDHDiamond drill holeRDDHDiamond drill hole with rotary air blast pre-collar

PDDH Diamond drill hole with percussion pre-collar RC Reverse Circulation drill hole

RCDDH Diamond drill hole with reverse circulation pre-collar





Criteria	JORC Code Explanation	Commentary
Data aggregation methods	 In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated. 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. The assumptions used for any reporting of metal equivalent values should be clearly stated. 	 Drilling Drill hole intercept grades are typically reported as down-hole length-weighted averages with any non-recovered sample within the reported intervals treated as no grade. The cut-off used for selecting significant intersections is selected to reflect the overall tenor of mineralisation, in most cases 500ppm cobalt. No top cuts have been applied when calculating average grades for reported significant intersections.
Relationship between mineralis- ation widths and intercept lengths	 These relationships are particularly important in the reporting of Exploration Results. If the geometry of the mineralisation with respect to the drillhole angle is known, its nature should be reported. If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known'). 	 Drill holes at the Thackaringa project are typically angled at 50° or 60° and drilled perpendicular to the mineralised trend with drilling orientations adjusted along strike to accommodate folded geological sequences. Mineralisation at the Big Hill and Railway prospects is steeply dipping and consequently mineralised intersections will be greater than true width. At Pyrite Hill mineralisation is gently dipping and mineralised intersections will be close to true width. There is insufficient geological knowledge to accurately estimate true widths and as such all drill intersections are reported as down hole lengths.
Diagrams	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.	Appropriate maps and sections are presented in the accompanying ASX release.
Balanced reporting	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.	 Only mineralised drill hole intersections regarded as highly anomalous and of economic interest are reported. The proportion of each hole represented by the reported intervals can be ascertained from the sum of the reported intervals divided by the total drill hole depth. All assay results for drill holes included in the various Mineral Resource estimates have been considered and comprise results not necessarily regarded as anomalous.





Criteria	JORC Code Explanation	Commentary
Other substantive exploration data	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.	 No further exploration data is deemed material to the results presented in this release.
Further work	 The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling). Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive. 	The nature and scale of future work is outlined in the accompanying release.