

## 8 March 2022

# **Excellent Massive Sulphides Assay Results Received**

## HIGHLIGHTS

- **Spectacular Massive Sulphide** assay results CBDD064 at the Carr Boyd Nickel & Copper Project:
  - Main Zone 16.2m<sup>(1)</sup> @ 3.12% Ni and 0.60% Cu from 192.35m
    - Including 8.07m<sup>(1)</sup> @ 4.31% Ni and 0.75% Cu from 199.85m
    - Individual assays up to 6.42% Ni
  - Mid Zone 1.45m<sup>(1)</sup> @ 1.57% Ni and 0.75% Cu from 242.8m
  - Lower Zone 12.97m<sup>(1)</sup> @ 1.07% Ni and 0.25% Cu from 256.0m
    - Including 3.98m<sup>(1)</sup> @ 1.25% Ni and 0.41% Cu from 256.77m
    - And 5.00m<sup>(1)</sup> @ 1.37% Ni and 0.21% Cu from 263.97m

Logging and geochemical analysis by CSIRO completed in order to determine Carr Boyd's relationship to the T5 mineralisation. Analysis of the data has commenced.



Figure 1: Massive and semi-massive nickel-copper sulphides in CBDD064 at ~198m downhole.

(1) Downhole intersection quoted, style of mineralisation precludes true-width calculations at this time



Estrella Resources Limited (ASX: ESR) (Estrella or the Company) is pleased to announce the receipt of assays from CBDD064 (Figure 1, Table 1)<sup>1</sup>, a diamond drillhole targeted below the existing workings at the Company's 100% owned flagship Carr Boyd Nickel and Copper Project, located approximately 80km NNE of the City of Kalgoorlie-Boulder, Western Australia.

Estrella Managing Director Chris Daws commented:

"The Carr Boyd project continues to produce some exceptional results, with numerous intersections of massive nickel sulphide and some very high nickel and copper assays associated with these drill hits.

Our understanding of this large mineralised system is gaining with every drill hole. The high-grade results received from hole CBDD064 beneath the historic Carr Boyd mine not only sees our geological model intact but also bolsters our confidence to unlock further massive nickel sulphides.

With nickel prices now reacting to strong demand from the global EV and battery revolution, Estrella is in an enviable position owning numerous quality nickel sulphide projects with scope for significant discoveries. The Ukraine War with Russia has seen nickel prices reach extraordinary levels overnight on the London Metal Exchange in excess of US\$21.80/lb. These are prices that haven't been seen since the resource boom in 2007 and in Australian dollar terms we haven't seen such prices ever. As much as the nickel price rise is welcomed the war in Ukraine is not and I very much pray that peace is restored to the people of Ukraine.

We are also well funded to continue our drilling efforts to locate what we believe could be a world class nickel sulphide discovery at Carr Boyd and I look forward in providing further news as we push forward."

Hole	m From	m To	Interval	Ni%	Cu%	Co%	3PGE's*	Ag g/t
Main								
Zone	192.35	208.55	16.2	3.12	0.60	0.09	0.33	1.02
Including	199.85	207.92	8.07	4.31	0.75	0.13	0.40	1.41
Mid Zone	242.8	244.25	1.45	1.57	0.75	0.05	0.47	1.68
Lower								
Zone	256	268.97	12.97	1.07	0.25	0.04	0.17	0.41
Including	256.77	260.75	3.98	1.25	0.41	0.04	0.19	0.84
and	263.97	268.97	5.00	1.37	0.21	0.04	0.20	0.31
* 3PGE refer	s to Pt + Pd	+ Au in g/t						

### Table 1: Significant Assay Compilation from CBDD064

The assays confirm high-grade mineralisation continues below the old workings. The intersections coincide with a Downhole Electromagnetic (DHEM) response modelled from CBDD056A which was drilled by Estrella into the basal contact in October 2021 (Figure 2). A full assay list can be found in Table 2.

<sup>&</sup>lt;sup>1</sup> See ASX Announcement dated 24 January 2022





Figure 2: Location of CBDD064 mineralisation in relation to the historical workings and the Carr Boyd basal contact.

The Carr Boyd Mine (Figure 2 and Figure 3) was worked between 1972 and 1977 by Great Boulder Mines and then Western Mining Corporation (WMC) before being closed due to lowering nickel prices and WMC's commitments elsewhere.

In total 210,000 tonnes at 1.44% Ni and 0.46% Cu were extracted via a 214m deep, three-compartment shaft. However, despite this extensive history, the source of this high-grade mineralisation has never been fully explained.

The mineralisation has historically proven to be relatively simple to mine, with a 10% nickel concentrate produced that was high in iron and sulphur whilst being very low in deleterious elements. Recovery was good at 79% given the ore was treated at the converted Fimiston Gold Plant when flotation of nickel sulphides was still at an early stage of development. Modern flotation technology we believe will dramatically increase recoveries.

The remaining JORC2004 resource stands at 636,000t at 1.4% Ni and 0.5% Cu (8,800 NiT and 3,100 CuT), one of the levels with remaining mineralisation can be seen in Figure 3. This resource was calculated in 2007 by Resource Evaluations Pty Ltd based upon historical mine mapping and additional drilling. Further confirmatory drilling will need to be conducted by Estrella to produce a re-interpretation and JORC2012 compliant resource<sup>2</sup>.

<sup>&</sup>lt;sup>2</sup> This information was prepared and first disclosed under the JORC Code 2004. It has not been updated since to comply with the JORC Code 2012 on the basis that the information has not materially changed since it was last reported.



Estrella has partnered with the CSIRO to determine if the Carr Boyd mineralisation was derived from remobilising sulphides from a pool of sulphides located on the T5 basal contact. If proven, the mineralisation represents a bleed-zone from something much larger at depth and would confirm the Company's model regarding the potential for the Carr Boyd Layered Igneous Complex to host large-scale nickel-rich sulphide trap sites. Geological work by Estrella and the CSIRO, assisted by drilling, downhole electromagnetics and seismic should be able to resolve this link.



Figure 3: Picture taken in the 1990's underground at Carr Boyd showing extensive remobilised breccia mineralisation.

## Exploration Update

The company has recently collared CBDD067 which is targeting the T5 basal contact south and at depth below the T5 Discovery. The rationale behind this drilling is to get better downhole electromagnetic (DHEM) coverage south and below the currently identified mineralisation. The DHEM response from the known T5 mineralisation is very strong and tends to mask additional sulphides away from the main conductors, such as that seen in CBDD042A, where massive breccia sulphides were intersected yet there was no DHEM response.

Additionally, the structural information gained from drilling this hole will enable a better understanding of the possible late off-set controls on the T5 Mineralisation.

This hole will be completed in the next few weeks, around the same time as Topdrive Drillers Australia (the drilling contractor at Carr Boyd) takes receipt of a brand new UDR drill rig which will be commissioned at Carr Boyd towards the end of March. The Company retired the use of an RC rig as it was not achieving the targeted drill metres.

The availability of two diamond rigs will enable Estrella to quickly advance its Phase 5 exploration program, which will use a combination of diamond drilling and DHEM to blanket the highly prospective T5-Broonhill, Mossgiel and Gossan Hill Prospects, where the company has already identified mineralised pyroxenites along the basal contact (Figure 4). Additionally, see ASX announcement dated 31 January 2022 titled "Carr Boyd Exploration Program Encounters Sulphides in Both the Mossgiel and Gossan Hill Pyroxenites".





Figure 4: Architecture of the Carr Boyd Intrusive Complex showing 12 km of prospective very highly basal contact

The Board has authorised for this announcement to be released to the ASX.

#### FURTHER INFORMATION CONTACT

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#### **Competent Person Statement**

The information in this announcement relating to Exploration Results is based on information compiled by Steve Warriner, who is the Exploration Manager of Estrella Resources, and a member of The Australasian Institute of Geoscientists. Mr. Warriner has sufficient experience relevant to the style of mineralisation and type of deposit under consideration, and to the activity he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resource and Ore Reserves". Mr. Warriner consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.



Table 2: Assay sulphide intersection details of CBDD064, 3PGE's = Pt + Pd + Au

Hole ID	Sample	From	То	Interval	Ni%	Cu%	Co	3PGF's	Ag g/t	MgO%	Au ø/t	Pt g/t	Pd g/t	As ppm	<b>S%</b>	SG
CBDD064	ECB12227	191.18	192.35	1.17	0.16	0.06	76	0.03	0.00	11.66	0.00	0.01	0.02	0.00	0.61	2.98
CBDD064	ECB12228	192.35	193.03	0.68	1.06	0.14	368	0.23	0.00	11.74	0.01	0.10	0.13	0.00	4.98	3.17
CBDD064	ECB12229	193.03	193.9	0.87	1.00	0.23	304	0.15	0.00	12.70	0.01	0.02	0.12	0.00	5.07	3.15
CBDD064	ECB12230	193.9	194.32	0.42	0.91	1.50	292	0.29	2.20	14.66	0.04	0.12	0.12	0.00	5.34	3.26
CBDD064	ECB12231	194.32	195.2	0.88	1.77	0.32	534	0.19	0.00	15.65	0.02	0.03	0.14	0.00	7.76	3.36
CBDD064	AP01713	195.2	195.4	0.2	5.02	0.31	1420	0.40	0.70	8.84	0.01	0.18	0.22	0.00	24.40	3.75
CBDD064	ECB12232	195.4	196.4	1	2.68	0.36	831	0.23	0.70	14.04	0.02	0.04	0.17	0.00	14.95	3.52
CBDD064	ECB12233	196.4	196.85	0.45	1.40	0.32	447	0.24	0.00	17.00	0.01	0.10	0.12	0.00	6.60	3.31
CBDD064	AP01714	196.85	197.23	0.38	1.12	0.24	325	0.19	0.50	19.90	0.01	0.08	0.09	0.00	4.85	3.12
CBDD064	ECB12234	197.23	198.2	0.97	1.60	1.14	486	0.25	1.70	17.00	0.03	0.05	0.18	0.00	8.67	3.36
CBDD064	AP01715	198.2	198.35	0.15	2.13	0.35	648	0.36	0.80	16.03	0.02	0.12	0.22	0.00	12.40	3.40
CBDD064	ECB12235	198.35	199.35	1	2.67	0.38	820	0.41	0.80	14.16	0.02	0.10	0.29	0.00	14.90	3.53
CBDD064	ECB12236	199.35	199.85	0.5	2.98	0.31	880	0.44	0.60	13.61	0.02	0.06	0.37	0.00	16.80	3.59
CBDD064	ECB12237	199.85	200.46	0.61	4.08	2.14	1265	0.65	3.40	8.09	0.07	0.11	0.48	0.00	23.10	3.95
CBDD064	ECB12238	200.46	201.1	0.64	2.19	0.26	640	0.17	0.50	15.97	0.01	0.03	0.13	0.00	9.26	3.41
CBDD064	AP01716	201.1	201.3	0.2	6.42	0.12	1865	0.32	0.90	2.06	0.01	0.04	0.27	0.00	34.80	3.12
CBDD064	ECB12239	201.3	202.3	1	3.44	0.46	997	0.26	0.90	11.42	0.03	0.07	0.17	0.00	19.85	3.71
CBDD064	ECB12240	202.3	203.3	1	3.88	0.39	1240	0.23	0.80	10.50	0.02	0.05	0.16	0.00	20.80	3.74
CBDD064	ECB12241	203.3	204.3	1	4.27	1.02	1315	0.48	1.70	9.65	0.06	0.19	0.24	0.00	23.00	3.83
CBDD064	ECB12242	204.3	205	0.7	4.33	0.55	1275	0.32	1.20	9.72	0.03	0.05	0.25	0.00	23.50	3.81
CBDD064	AP01717	205	205.18	0.18	3.85	0.43	1100	0.36	1.00	10.58	0.02	0.14	0.20	0.00	22.00	3.49
CBDD064	ECB12243	205.18	206.18	1	4.84	0.57	1435	0.45	1.30	7.64	0.07	0.11	0.27	0.00	26.90	3.85
CBDD064	ECB12244	206.18	206.9	0.72	5.03	1.59	1470	0.73	2.50	5.85	0.19	0.23	0.32	0.00	26.90	3.92
CBDD064	ECB12245	206.9	207.5	0.6	5.93	0.52	1725	0.40	1.30	5.60	0.05	0.02	0.34	0.00	32.00	4.03
CBDD064	AP01718	207.5	207.92	0.42	5.09	0.20	1520	0.40	0.80	5.69	0.01	0.01	0.38	0.00	28.30	3.65
CBDD064	ECB12246	207.92	208.55	0.63	0.30	0.04	110	0.04	0.00	9.55	0.00	0.01	0.03	0.00	1.68	3.72
CBDD064	ECB12247	208.55	209.8	1.25	0.26	0.04	99	0.03	0.00	14.13	0.00	0.01	0.02	0.00	1.03	2.99
CBDD064	ECB12248	209.8	210.85	1.05	0.20	0.04	79	0.04	0.00	9.30	0.00	0.02	0.02	0.00	0.83	2.93
CBDD064	ECB12249	210.85	211.74	0.89	0.17	0.03	72	0.03	0.00	9.40	0.01	0.01	0.01	0.00	0.68	2.94
CBDD064	ECB12250	211.74	212.34	0.6	0.60	0.91	206	0.13	1.30	17.08	0.03	0.02	0.08	0.00	3.25	3.08
CBDD064	ECB12251	212.34	214	1.66	0.20	0.03	91	0.02	0.00	11.99	0.00	0.01	0.02	0.00	0.71	2.95
CBDD064	ECB12252	242	242.8	0.8	0.02	0.01	45	0.00	0.00	9.38	0.00	-0.01	0.00	0.00	0.04	2.93
CBDD064	AP01719	242.8	243.05	0.25	1.83	0.81	534	0.62	2.20	11.95	0.01	0.30	0.30	0.00	7.73	3.26
CBDD064	ECB12253	243.05	243.41	0.36	2.52	1.32	710	0.47	2.90	12.10	0.05	0.02	0.40	0.00	15.80	3.48
CBDD064	ECB12254	243.41	243.83	0.42	0.80	0.16	259	0.13	0.00	16.91	0.01	0.01	0.11	0.00	3.81	3.19
CBDD064	ECB12255	243.83	244.25	0.42	1.30	0.78	424	0.72	1.90	12.93	0.24	0.27	0.22	0.00	7.34	3.27
CBDD064	ECB12256	244.25	246	1.75	0.02	0.00	35	0.00	- 0.50	8.22	0.00	-0.01	0.00	0.00	0.02	2.90
000000	20012200	211120	2.0	2170	0.02	0.00		0.00	0.00	0.22	0.00	0.01	0.00	0.00	0.02	2.50
CBDD064	ECB12257	256	256.3	0.3	0.64	0.53	223	0.18	1.30	13.00	0.03	0.06	0.09	0.00	3.68	3.05
CBDD064	ECB12258	256.3	256.77	0.47	0.77	0.10	277	0.15	0.00	18.40	0.01	0.05	0.09	0.00	4.43	3.19
CBDD064	ECB12259	256.77	257.25	0.48	1.29	0.23	434	0.25	0.00	14.51	0.02	0.06	0.18	0.00	6.97	3.30
CBDD064	ECB12260	257.25	258.55	1.3	0.18	0.03	100	0.03	0.00	21.97	0.00	0.02	0.01	0.00	0.67	3.05
CBDD064	ECB12261	258.55	258.85	0.3	1.45	0.10	674	0.25	0.00	18.07	0.01	0.08	0.16	0.00	8.58	3.34
CBDD064	ECB12262	258.85	259.4	0.55	0.60	0.08	239	0.15	0.00	23.46	0.01	0.11	0.04	0.00	3.22	3.07
CBDD064	ECB12263	259.4	259.74	0.34	2.62	0.18	822	0.37	0.70	13.91	0.01	0.06	0.30	0.00	15.80	3.53



	ECB12264	250 74	260.08	0.24	2 1 7	0.50	606	0.28	1 20	15.07	0.08	0.12	0.17	0.00	12 55	2 /1
CBDD004	ECD12204	259.74	200.08	0.54	2.17	0.50	090	0.56	1.20	15.97	0.08	0.15	0.17	0.00	12.55	5.41
CBDD064	ECB12265	260.08	260.42	0.34	2.54	2.39	830	0.27	5.30	12.97	0.05	0.07	0.15	0.00	17.40	3.58
CBDD064	ECB12266	260.42	260.75	0.33	1.97	0.72	711	0.20	1.90	15.52	0.03	0.05	0.12	0.00	12.80	3.44
CBDD064	ECB12267	260.75	261.43	0.68	0.58	0.20	208	0.22	0.00	20.56	0.01	0.16	0.05	0.00	2.76	3.09
CBDD064	ECB12268	261.43	262.7	1.27	0.43	0.10	159	0.08	0.00	24.87	0.01	0.03	0.05	0.00	2.19	3.06
CBDD064	ECB12269	262.7	263.97	1.27	0.36	0.08	135	0.08	0.00	25.20	0.00	0.04	0.03	0.00	1.80	3.08
CBDD064	ECB12270	263.97	264.33	0.36	1.60	0.35	516	0.24	0.80	17.66	0.01	0.07	0.15	0.00	8.41	3.33
CBDD064	ECB12271	264.33	264.7	0.37	2.84	0.35	885	0.44	1.00	12.80	0.01	0.06	0.37	0.00	16.95	3.56
CBDD064	ECB12272	264.7	265.9	1.2	0.11	0.06	70	0.02	0.00	11.66	0.01	0.01	0.01	0.00	0.40	2.92
CBDD064	ECB12273	265.9	266.68	0.78	0.55	0.18	202	0.14	0.00	13.02	0.02	0.05	0.07	0.00	2.59	3.09
CBDD064	ECB12274	266.68	267.25	0.57	2.26	0.09	680	0.15	0.00	14.52	0.01	0.05	0.09	0.00	13.00	3.43
CBDD064	ECB12275	267.25	267.82	0.57	1.89	0.04	575	0.17	0.00	15.93	0.01	0.09	0.07	0.00	9.07	3.36
CBDD064	ECB12276	267.82	268.39	0.57	1.48	0.84	495	0.30	1.50	17.91	0.01	0.07	0.21	0.00	8.04	3.22
CBDD064	ECB12277	268.39	268.97	0.58	1.99	0.06	652	0.38	0.00	15.20	0.01	0.06	0.31	0.00	11.45	3.28
CBDD064	ECB12278	268.97	270.82	1.85	0.05	0.01	55	0.00	0.00	9.97	0.00	-0.01	0.00	0.00	0.12	3.01
CBDD064	ECB12279	270.82	272.68	1.86	0.05	0.02	57	0.01	0.00	10.38	0.01	-0.01	0.00	0.00	0.15	2.95
CBDD064	ECB12280	272.68	274.65	1.97	0.05	0.02	50	0.00	0.00	8.51	0.01	-0.01	0.00	0.00	0.19	2.90
CBDD064	ECB12281	274.65	275.35	0.7	1.39	0.10	437	0.46	2.40	10.51	0.01	0.10	0.34	0.00	7.15	2.99
CBDD064	ECB12282	275.35	276.9	1.55	0.04	0.02	41	0.00	0.00	6.57	0.01	-0.01	0.00	0.00	0.24	2.86

Table 3: Drill hole collar details

Hole ID	Final Depth	Easting	Northing	RL	Dip	Azimuth	Status
CBDD064	276.9	367398	6672991	424	-63	147	Completed

## **APPENDIX 1 JORC TABLE 1 - JORC CODE, 2012 EDITION – TABLE 1**

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

(Criteria in this section apply to all succeeding sections.)

Criteria J	JORC Code explanation	Commentary
Sampling • techniques	<ul> <li>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.</li> </ul>	<ul> <li>DD core samples have been half cut with an automatic core saw.</li> <li>0.25m-1.1m samples are collected from the core trays as marked out by the supervising geologist.</li> <li>A handheld XRF tool was used to verify the mineralisation with samples reporting &gt;0.3% Ni in disseminated zones and &gt;1% Ni in the matrix sulphide zones.</li> <li>XRF results have not been reported and are used as a logging/sampling verification tool only.</li> </ul>
•	<ul> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> </ul>	• Core is cut and sampled to ensure the sample is representative and no bias is introduced. Cutting of specific, banded or stringer sulphide zoned core is done orthogonal to the banding to ensure there is no bias.
•	<ul> <li>Aspects of the determination of mineralisation that are material to the Public Report.</li> </ul>	<ul> <li>Determination of mineralisation has been based on geological logging, visual sulphide estimates and confirmation using a pXRF machine. Samples were dispatched to an accredited laboratory for multi-element analysis.</li> </ul>
•	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 30g 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	<ul> <li>Diamond core drilling was used to obtain 3m length samples from the core barrel which are then marked in one meter intervals, based on core block measurements.</li> <li>Samples are selected based on geological logging boundaries or on nominal meter marks.</li> <li>Collected samples weigh a nominal 2-3 kg (depending on sample length).</li> <li>Samples have been dispatched to an accredited commercial laboratory in Perth for analysis.</li> <li>Samples are being analysed using a 4-acid digest, ME-ICP for 33 elements and ore zone samples are also being tested for Au &amp; PGE elements using ICP analysis.</li> </ul>
Drilling • techniques	<ul> <li>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).</li> </ul>	<ul> <li>Drilling was undertaken using NQ2 sized drill core.</li> <li>Holes have been collared with mud rotary from surface, HQ rough cored to top of fresh rock then NQ2 cored to EOH.</li> </ul>
Drill sample recovery	<ul> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> <li>Measures taken to maximise sample recovery and ensure representative nature of the samples.</li> <li>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.</li> </ul>	<ul> <li>Core recovery was recorded by the field crew and verified by the geologist.</li> <li>RQD measurements were digitally recorded to ensure recovery details were captured.</li> <li>Sample recovery in all mineralised zones is high with negligible core loss observed.</li> <li>Diamond core drilling is the highest standard and no relationship has been established between sample recovery and reported grade as the core is in very good condition.</li> </ul>



Criteria	JORC Code explanation	Commentary
Logging	<ul> <li>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.</li> <li>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</li> <li>The total length and percentage of the relevant intersections logged.</li> </ul>	<ul> <li>Detailed industry standard of collecting core in core trays, marking meter intervals &amp; drawing core orientation lines was undertaken.</li> <li>Core trays were photographed wet and dry prior to sampling.</li> <li>Drill hole logs are recorded in Excel spread sheets and validated in Micromine Software as the drilling progresses.</li> <li>The entire length of all holes is logged.</li> </ul>
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> <li>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> <li>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</li> <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> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul>	<ul> <li>Core is half cut using an automatic core saw to achieve a half-core sample for laboratory submission.</li> <li>The sample preparation technique is considered industry best standard practice.</li> <li>No field duplicates have been collected in this program. Field duplicates will be collected once initial results are returned and resampling of the mineralised zones is warranted.</li> <li>Sample sizes are appropriate to the grain size of the mineralisation.</li> </ul>
Quality of assay data and laboratory tests	<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> <li>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.</li> </ul>	<ul> <li>No handheld XRF results are reported however the tool was used to verify the mineralisation with reporting &gt;0.3% Ni in disseminated zones and &gt;1% Ni in the matrix sulphide zones.</li> <li>DHTEM parameters are as follows; <ul> <li>Tx Loop size: 500 x 800 m</li> <li>Transmitter: GAP HPTX-70</li> <li>Receiver: EMIT SMARTem24</li> <li>Sensor: EMIT DigiAtlantis</li> <li>Station spacing: 2m to 10m</li> <li>Tx Freq: 0.5 Hz</li> <li>Duty cycle: 50%</li> <li>Current: ~130 Amp</li> <li>Stacks: 32-64</li> <li>Readings: 2-3 repeatable readings per station</li> </ul> </li> </ul>
Verification of sampling and	• The verification of significant intersections by either independent or alternative company personnel.	Results verified internally by Company personnel
assaying	• The use of twinned holes.	Hole CBDD0028 is twinning hole CBP042. No other twinning is warranted at this stage
	<ul> <li>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</li> <li>Discuss any adjustment to assay data</li> </ul>	<ul> <li>The data was collected and logged using Excel spreadsheets and validated using Micromine Software. The data will be loaded into an externally hosted and managed database.</li> <li>No adjustments have been made to the assay data other.</li> </ul>
		than length weighted averaging.
data points	<ul> <li>Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and</li> </ul>	<ul> <li>I ne holes were pegged using a hand-held GPS <u>+</u> 3m</li> <li>The rig was setup over the nominated hole position and final GPS pickup occurred at the completion of the hole.</li> </ul>



Criteria	JORC Code explanation	Commentary
	other locations used in Mineral Resource estimation.	<ul> <li>Holes are progressively surveyed by DGPS on a batch basis.</li> </ul>
	Specification of the grid system used.	• MGA94_51
	<ul> <li>Quality and adequacy of topographic control.</li> </ul>	<ul> <li>Topography is relatively flat and control is more than adequate given the early stage of the project. A 3D drone ortho-photographic survey had been used to create a DTM of the project area.</li> </ul>
Data spacing	<ul> <li>Data spacing for reporting of Exploration Results.</li> </ul>	Refer to Cross Sections and Plans included
and distribution	• 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.	<ul> <li>Not applicable, no Mineral Resource is being stated.</li> </ul>
	Whether sample compositing has been applied	<ul> <li>No compositing has been applied. Intercepts are quoted as length weighted intervals.</li> </ul>
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>The drill hole orientation does not introduce a sample bias.</li> </ul>
Sample security	The measures taken to ensure sample security.	<ul> <li>Samples are in the possession of Estrella's personnel from field collection to laboratory submission.</li> </ul>
Audits or reviews	<ul> <li>The results of any audits or reviews of sampling techniques and data.</li> </ul>	<ul> <li>No audits or reviews have been conducted for this release given the early stage of the project.</li> </ul>



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

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	<ul> <li>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.</li> <li>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.</li> </ul>	<ul> <li>Carr Boyd Nickel Pty Ltd (a wholly owned subsidiary of ESR) holds a 100% interest in the nickel and base metal rights to the project.</li> <li>There are no known impediments to operate in the area.</li> </ul>
Exploration done by other parties	<ul> <li>Acknowledgment and appraisal of exploration by other parties.</li> </ul>	<ul> <li>The Carr Boyd Rocks deposit was discovered by Great Boulder Mines, in a joint venture with North Kalgurli Ltd in 1968. The deposit was mined between 1972 and 1975, during which time they explored for additional breccia pipe occurrences near the mine.</li> <li>WMC acquired Great Boulder Mines Ltd in 1975, briefly reopening the mine in 1977 before closing it permanently shortly thereafter due to a collapse in the nickel price. The mine had produced 210,000t at 1.44% Ni and 0.46% Cu before its closure.</li> <li>From 1968 Pacminex Pty Ltd held most of the ground over the CBLC outside of the immediate mine area. Between 1968 and 1971 they conducted extensive exploration programs searching for large basal contact and/or stratabound Ni-Cu deposits. It was during this time that most of the disseminated and cloud sulphide occurrences such as those at Tregurtha, West Tregurtha and Gossan Hill were discovered.</li> <li>Defiance Mining acquired the regional tenements from Pacminex in 1987 and focused on exploration for PGE deposits between 1987 and 1990. In 1990 Defiance purchased the Carr Boyd Rocks mine from WMC and switched focus to the mine area between 1990 and 2001, leaving many PGE targets untested.</li> <li>From 1990 Defiance dewatered the mine to conduct testwork and feasibility studies on the remnant mineralisation. Metallurgical testwork, Mineral Resource estimations, and scoping studies were completed. Around 1996 the focus shifted again to regional exploration for large tonnage basal contact deposits.</li> <li>In 2001 Titan Resources Ltd (Titan) acquired the project and recommenced economic evaluations of the remnant material at Carr Boyd Rocks before embarking on another regional exploration program focusing on the basal contact. An aeromagnetic survey, airborne EM reprocessing, and several programs of RAB and RC drilling were completed.</li> <li>From 2005 Yilgarn Mining entered a JV with Titan and continued with some regional exploration but focused most attentin in and a</li></ul>



Criteria	JORC Code explanation	Commentary
Geology	<ul> <li>Deposit type, geological setting and style of mineralisation.</li> </ul>	<ul> <li>The Carr Boyd project lies within the Achaean Yilgarn Craton in a 700km belt of elongate deformed and folded mafic, ultramafic rocks and volcanic sediments intruded by granitoids which is referred to as the Norseman-Wiluna Belt. The belt has been divided into several geological distinct terranes, with the project area lying at the northern end of the Gindalbie terrane (Swager, 1996).</li> <li>The geology of the Carr Boyd area is dominated by the Carr Boyd mafic-ultramafic intrusive complex (CBIC).</li> <li>Several distinctive styles of Ni and Ni-Cu mineralisation have been identified within the CBIC. At the Carr Boyd Rocks Nickel Mine Ni-Cu mineralisation is hosted within several 20 - 60m diameter brecciated pipe-like bodies that appear to be discordant to the magmatic stratigraphy. Mineralisation is hosted by a matrix of sulphides (pyrrhotite, pentlandite, pyrite and chalcopyrite) within brecciated Bronzite and altered country rock clasts.</li> <li>Stratiform Ni-Cu-PGE mineralisation has been identified at several different locations within the layered magmatic complex.</li> <li>Estrella is in the process of re-mapping and reclassifying the Carr Boyd Igneous Complex. Previous "Layered Intrusive" models are misleading as the complex is made up of many overprinted and juxtaposed, smaller layered and non-layered intrusives that have progressed from Ultramafic to Mafic over time. The complex is better described as a magma feeder zone, where the earliest melts passing through the Morelands Formation have assimilated graphitic sulphidic shales, reached sulphur saturation and deposited nickel sulphides along basal contacts.</li> <li>These basal contacts are not restricted to the base of the complex, but can form within the complex, wherever access was gained by these earlier flows.</li> <li>The complex has then been intruded and inflated over time by progressively more mafic, barren magmas to produce what we see today.</li> </ul>
Drill hole Information	<ul> <li>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:         <ul> <li>easting and northing of the drill hole collar</li> <li>elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</li> <li>dip and azimuth of the hole</li> <li>down hole length and interception depth</li> <li>hole length.</li> </ul> </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</li> </ul>	<ul> <li>All relevant drillhole information can be found in the Tables and sections within the announcement.</li> <li>No information is excluded.</li> </ul>



Criteria	JORC Code explanation	Commentary
	explain why this is the case.	
Data aggregation methods	<ul> <li>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.</li> <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> </ul>	<ul> <li>Intersections are reported on a 0.5% Ni cut-off with SG and length weighted intervals.</li> <li>All intercepts are reported using SG and length weighted intervals.</li> </ul>
	<ul> <li>The assumptions used for any reporting of metal equivalent values should be clearly stated.</li> </ul>	<ul> <li>No metal equivalents have been stated</li> </ul>
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 (e.g. 'down hole length, true width not known').</li> </ul>	<ul> <li>True widths have not been stated. The variable orientation of mineralisation within magma feeders combined with a structural overprint and steep drill angles make true width calculations highly misleading.</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>	• Maps and sections with drill hole locations are included in the announcement.
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>	All new drillhole information within this announcement is reported
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>Everything meaningful and material is disclosed in the body of the report.</li> <li>Geological observations are included in the report.</li> <li>No bulk samples, metallurgical, bulk density, groundwater, geotechnical and/or rock characteristics test were carried out.</li> <li>There are no known potential deleterious or contaminating substances.</li> </ul>
Further work	• The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or	<ul> <li>Diamond drilling and DHTEM geophysical testing is continuing.</li> </ul>



Criteria	JORC Code explanation	Commentary
	<ul> <li>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>	