



12 Sept 2023

ASX:BCA

# Further Drill Results Confirm Significant Manganese Discovery at KR1

#### HIGHLIGHTS

Further assay results have been received from the ~7,000m reverse circulation (RC) drilling program completed across six key targets including KR1 within the Balfour Manganese Field.

Results demonstrate thick manganese enriched shale mineralisation and continue to show scale at KR1, with the following significant intersections:

- $\circ~$  KRRC024 ~ 3m @ 19.2% Mn from surface
- KRRC025 15m @ 18.6% Mn from 2m, including: 7m @ 26% Mn from 10m
- KRRC027 23m @ 12.2% Mn from 11m, including: 4m @ 18.4% Mn from 12m
- KRRC031 10m @ 15.2% Mn from 15m, including: 4m @ 18% Mn from 15m
- KRRC045 20m @ 11.4% Mn from 9m
- KRRC046 22m @ 12.2% Mn from 1m, including: 3m @ 18% Mn from 1m

Drill assays confirm the KR1 manganese discovery has a cross strike width of between 200 to 500m and a strike extent of at least 600m and open to the north for a further 1,600m pending assay results.

- Overall geology, grade, and thickness are similar to Flanagan Bore mineralisation where
   <u>171Mt @ 10.3% Mn</u> of Mineral Resource has been discovered at the FB3 and LR1 deposits.<sup>1</sup>
- Further assay results are expected from the other Balfour Manganese Targets over the next two months. The data will then be collated and Mineral Resource and/or Exploration Targets estimated subject to review of the results.
- Leaching testwork extracted 97% Mn from KR1 material<sup>2</sup>, which is part of the expanded High Purity Manganese Sulphate (HPMSM) variability study. Purification stages have now commenced on the leached KR1 sample.
- The results from KR1 demonstrate that subject to further metallurgical testwork, it could provide suitable feedstocks for manganese oxide concentrate used as alloys in the steel industry as well as downstream production of HPMSM.

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<sup>&</sup>lt;sup>1</sup> BCA Announcement 24 November 2022 – Flanagan Bore Mineral Resource Estimate Increased by 64% <sup>2</sup> BCA Announcement 5 September 2023 – Advancing Battery Grade HPMSM Development



Australian manganese explorer and developer, Black Canyon Limited (**Black Canyon** or the **Company**) (ASX: BCA) is pleased to announce further assay results yielding thick, shallow manganese enriched shales at the KR1 discovery within the Balfour Mineral Field (BMF), located in the Pilbara region of Western Australia.

The program, completed in July 2023, was designed to drill test six targets across Black Canyon's 100% owned tenements within the Balfour Manganese Field (Figure 1). These latest assay results continue to demonstrate widespread manganese mineralisation at KR1 with several higher-grade intersections reported from surface or near to surface. All the drill samples are at the laboratory and further assays from the remaining targets are expected over the coming months.

#### Black Canyon Executive Director, Brendan Cummins, said:

The continued delivery of wide zones of manganese enriched shale at KR1 has tripled the known strike of the mineralised body to 600m with a further 1,600m of drill results along strike to the northeast still to be received, which could see a material increase in the mineralised footprint. Cross-strike widths are also significant, ranging from 200 to 500m and the latest results have also shown shallow higher-grade intervals ranging between 18% and 26% Mn. In short, we are extremely pleased with the way the KR1 discovery is currently trending.

"The results are confirming our expectations of the mineralisation model and we are confident that KR1 and other key targets across the Balfour Manganese Field will help to build Mineral Resources, based on previous discoveries we have made in the region."

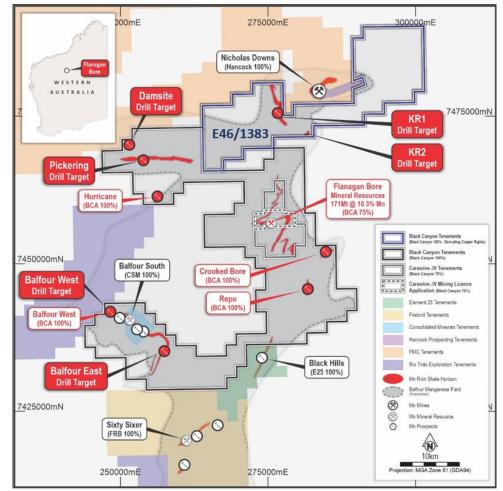


Figure 1. Location of the main drill targets across the Balfour Manganese Field and manganese shale target horizon (red solid outlines).



#### **KR1 Discovery RC Drill Assay Results**

A total of 220 holes for 6,927m of drilling were drilled across six target areas. The program was designed to drill test multiple targets across Black Canyon's 100% owned tenements within the Balfour Manganese Field. The drill intersections announced in this release represent further assays received from drilling at KR1, with approximately half of the KR1 drillhole results now reported.

At KR1, the Company tested a previously undrilled 2,500m section of outcropping supergene mineralisation using E-W oriented lines, 200m apart with drillholes spaced at 100m or 200m centres.

Widespread manganese mineralisation was encountered with stronger zones of surface manganese enrichment intersected along a 1,500m long ridge. The mineralised zones are between 200 and 500m wide, extending 10m to 25m downhole. The drill data and mapping completed at KR1 have confirmed the mineralised horizon is shallowly dipping to the west and striking to the north-northeast.

Satellite imagery and check mapping has confirmed additional untested manganese enrichment for a further 3,000m to the north combining to an overall strike length of 5,000m. The mineralisation to the south appears to be closed off or possibly displaced by a structure and infilled with dolerite, however this requires additional drilling to resolve.

Significant results are presented in plan(s) and section in Figures 2, 3 & 4 respectively and are listed below:

• KRRC024	3m @ 19.2% Mn from surface
• KRRC025	15m @ 18.6% Mn from 2m including 7m @ 26% Mn from 10m
• KRRC027	23m @ 12.2% Mn from 11m including 4m @ 18.4% Mn from 12m
• KRRC031	10m @ 15.2% Mn from 15m including 4m @ 18% Mn from 15m
• KRRC045	20m @ 11.4% Mn from 9m
• KRRC046	22m @ 12.2% Mn from 1m including 3m @ 18% Mn from 1m

Further assays are pending and expected to be received over the next 2 months prior to the estimation of Mineral Resources and/or Exploration Targets, subject to analysis of the results confirming grade and geological continuity at each of the prospects drilled. Results from the drilling program are presented in Appendix 1.



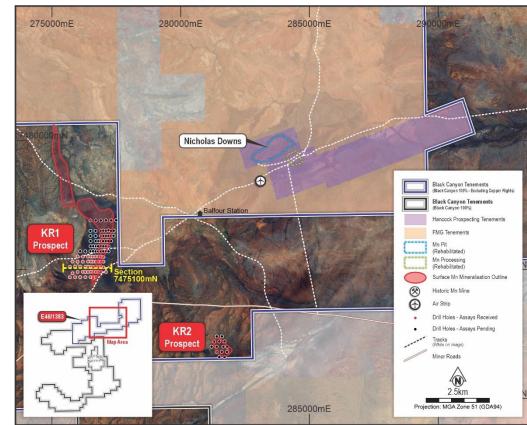


Figure 2. Location map of the KR1, KR2 and the historic Nicholas Downs Manganese Mine.

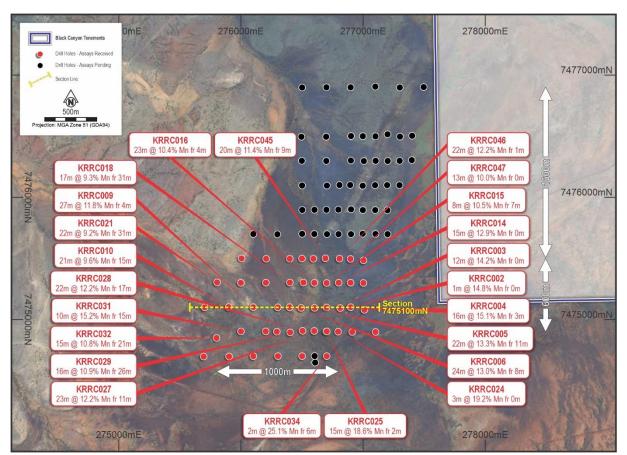


Figure 3. Drill plan, cross-section location and significant results received from KR1.

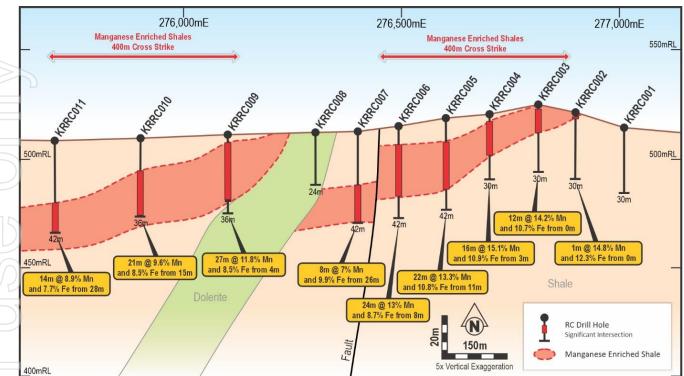


Figure 4. KR1 cross-section 7,475,100mN (looking to the north) with manganese enriched shale and drill intersections.

#### Manganese Oxide HPMSM Feedstock Variability Studies (BCA 100%)

Black Canyon has continued to advance its feedstock variability studies<sup>3</sup> to ascertain the amenability of various manganese ore sources to simple beneficiation, leaching and ultimately producing HPMSM. As part of the variability study, material from the KR1 prospect has been leached and yielded a 97% extraction rate. With the completion of the successful leaching process, the KR1 sample is now undergoing purification stages prior to crystallisation of HPMSM.

The Company is seeking to develop a low CAPEX, low impact mining facility that could be permitted and approved relatively quickly. Some of the drill targets, such as KR1, as part of the July RC program are of a scale that may help facilitate this strategy. This would potentially reduce the timeframes for Black Canyon to supply manganese oxide feedstock to a downstream HPMSM facility. Black Canyon has commissioned experienced environmental and approval specialist, Preston Consultants, to advise on the likely environmental studies, approvals and timeframes required for a campaigned based mining operation utilising simple beneficiation processes to upgrade the manganese oxide materials in preparation for hydrometallurgical processing into HPMSM.

The expanded HPMSM strategy is in addition to the ongoing Flanagan Bore activities where the Company has established a Mineral Resource of 171 Mt @ 10.3% Mn.<sup>4</sup> Flanagan Bore is part of the Carawine JV where Black Canyon has earnt a 75% interest.

<sup>&</sup>lt;sup>3</sup> BCA Announcement 1 June 2023 – Expanded HPMSM testwork yields positive results.

<sup>&</sup>lt;sup>4</sup> BCA Announcement 24 November 2022 – Flanagan Bore Mineral Resource Estimate Increased by 64%



This announcement has been approved by the Board of Black Canyon Limited.

For further details:

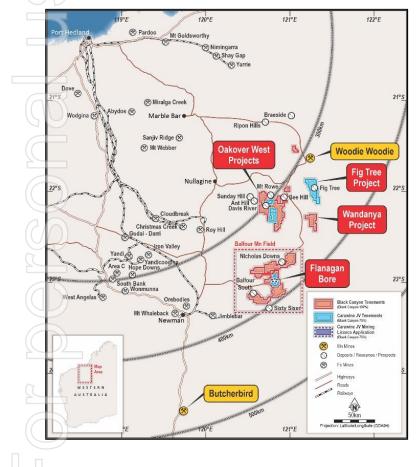
Brendan Cummins Executive Director Telephone: +61 8 9426 0666 Email: brendan.cummins@blackcanyon.com.au For media and broker enquiries:

Andrew Rowell / Zander Beacham White Noise Communications Telephone: +61 8 6374 2907 Email: <u>andrew@whitenoisecomms.com</u> <u>zander@whitenoisecomms.com</u>

Black Canyon has consolidated a significant land holding totalling 2,400km<sup>2</sup> in the underexplored Balfour Manganese Field and across the Oakover Basin, in Western Australia.

The emerging potential for the Balfour Manganese Field is evident by the size of the geological basin, mineral resources identified to date, distance from port, potential for shallow open pit mining and a likely beneficiated Mn oxide concentrate product grading between 30 and 33% Mn. Black Canyon holds several exploration licenses 100% within the Balfour Manganese Field along with a 75% interest in the Carawine with ASX listed Carawine Joint Venture Limited. А Mineral Resources Resource (Measured and Indicated) of 171Mt @ 10.3% Mn has been defined at Flanagan Bore which is part of the Carawine JV<sup>4</sup>.

Manganese continues to have attractive fundamentals where it is essential and nonsubstitutable in the manufacturing of alloys for the steel industry and a critical mineral in the cathodes of Li-ion batteries.



#### About Black Canyon



#### **Reporting of Exploration Results and Previously Reported Information**

The information in this report that relates to Exploration Results is based on, and fairly represents, information and supporting documentation reviewed by Mr Brendan Cummins, Executive Director of Black Canyon Limited. Mr Cummins is a member of the Australian Institute of Geoscientists, and he has sufficient experience which is relevant to the style of mineralisation and type of deposits under consideration and to the activity which has been 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 Cummins consents to the inclusion in this release of the matters based on the information in the form and context in which they appear. Mr Cummins is a shareholder of Black Canyon Limited.

For further information, please refer to ASX announcements dated 17 May 2021, 10 June 2021, 7 July 2021, 5 October 2021, 4 January 2022, 8 February 2022, 21 February 2022, 2 March 2022, 23 March 2022,13 April 2022, 9 June 2022, 7 September 2022, 15 September 2022, 11 October, 21 & 24 November 2022, 5 December 2022, 28 December 2022, 14 February 2023, 27 March 2023, June 1 2023, June 1 2023, June 17 2023, July 14 2023, 23 August 2023 and 5 September 2023 which are available from the ASX Announcement web page on the Company's website. The Company confirms that there is no new information or data that materially affects the information presented in this release that relate to Exploration Results and Mineral Resources in the original market announcements.

Note 4 ASX release 24/11/2022 Mineral Resource increases by 64% at Flanagan Bore.



## Appendix 1. Balfour Manganese July 2023 drill collar information and assay results to date

NSR – No Significant Intersect

		PROCEECT	5 65404	N. 65404		5011	010	A 715 41 1711	FROM	то	THICKNESS	No. (0/)	E - (0/)	
	HOLE ID	PROSPECT	E_GDA94	N_GDA94	RL	EOH	DIP	AZIMUTH	(m)	(m)	(m)	Mn (%)	Fe (%)	DRILL INTERSECTIONS
	KRRC001	KR1	277011	7475082	514.5	30	-90	360						NSR
	KRRC002	KR1	276899	7475104	521	30	-90	360	0	1	1	14.8	12.3	1m @ 14.8% Mn & 12.3% Fe from 0m
	KRRC003	KR1	276814 276702	7475097 7475101	524.5 520.5	30 30	-90 -90	360 360	0	12 19	12	14.2 15.1	10.7 10.9	12m @ 14.2% Mn & 10.7% Fe from 0m
	KRRC004 KRRC005	KR1 KR1	276603	7475101	520.5	42	-90	360	3 11	33	16 22	13.3	10.9	16m @ 15.1% Mn & 10.9% Fe from 3m 22m @ 13.3% Mn & 10.8% Fe from 11m
	KRRC005	KR1 KR1	276493	7475098	514.8	42	-90	360	8	32	22	13.5	8.7	24m @ 13% Mn & 10.8% Fe from 8m
	KRRC007	KR1	276399	7475104	512.7	42	-90	360	26	34	8	7	9.9	8m @ 7% Mn & 9.9% Fe from 26m
(	KRRC008	KR1	276302	7475103	512.2	24	-90	360		-				NSR
	KRRC009	KR1	276101	7475104	511.2	36	-90	360	4	31	27	11.8	8.5	27m @ 11.8% Mn & 8.5% Fe from 4m
	KRRC010	KR1	275900	7475105	509.5	36	-90	360	15	36	21	9.6	8.3	21m @ 9.6% Mn & 8.3% Fe from 15m until EOH
	KRRC011	KR1	275704	7475103	508	42	-90	360	28	42	14	8.9	7.7	14m @ 8.9% Mn & 7.7% Fe from 28m
	KRRC012	KR1	277003	7475301	513.6	24	-90	360			0			NSR
UL	KRRC013	KR1	276899	7475304	516.5	24	-90	360	0	6	6	9.6	7	6m @ 9.6% Mn & 7% Fe from 0m
10	KRRC014	KR1	276801	7475304	522	24	-90	360	0	15	15	12.9	8.7	15m @ 12.9% Mn & 8.7% Fe from 0m
611	KRRC015 KRRC016	KR1 KR1	276702 276602	7475302 7475303	516 513.8	24 36	-90 -90	360 360	7	15 27	8	10.5 10.4	15.2 8.9	8m @ 10.5% Mn & 15.2% Fe from 7m 23m @ 10.4% Mn & 8.9% Fe from 4m
$\bigcirc$	KRRC010	KR1 KR1	276512	7475305	512.2	30	-90	360	4	27	0	10.4	0.5	25m @ 10.4% km & 8.5% re nom 4m
	KRRC018	KR1	276401	7475305	510.8	54	-90	360	31	48	17	9.3	7.7	17m @ 9.3% Mn & 7.7% Fe from 31m
	KRRC019	KR1	276204	7475304	509	30	-90	360	1		0			NSR
	KRRC020	KR1	276000	7475303	507.3	24	-90	360	8	12	4	9.8	9.5	4m @ 9.8% Mn & 9.5% Fe from 8m
	KRRC021	KR1	275805	7475306	505.8	54	-90	360	31	53	22	9.2	7.7	22m @ 9.2% Mn & 7.7% Fe from 31m
	KRRC022	KR1	277102	7474901	512.1	30	-90	360		L	0			NSR
	KRRC023	KR1	276911	7474901	516	30	-90	360			0	40.2	11.5	NSR
	KRRC024	KR1	276796	7474903	519.4	24	-90	360	0	3	3	19.2	11.5	3m @ 19.2% Mn & 11.5% Fe from 0m 15m @ 18.6% Mn & 14.1% Fe from 2m
	KRRC025*	KR1	276697	7474904	520	17	-90	360	2	17	15	18.6	14.1	including 7m @ 26% Mn from 10m
99	KRRC026*	KR1	276703	7474906	521	30	-90	360	4	18	14	18.3	14.3	14m @ 18.3% Mn & 14.3% Fe from 4m 23m @ 12.2% Mn & 8.7% Fe from 11m
	KRRC027	KR1	276600	7474909	521.5	42	-90	360	11	34	23	12.2	8.7	including 4m @ 18.4% Mn from 12m
(	KRRC028	KR1	276505	7474910	520	48	-90	360	17	39	22	12.2	8.8	22m @ 12.2% Mn & 8.8% Fe from 17m
	KRRC029 KRRC030	KR1 KR1	276404 276203	7474898 7474906	518.3 515.5	54 24	-90 -90	360 360	26	42	16 0	10.9	9.7	16m @ 10.9% Mn & 9.7% Fe from 26m NSR
$\square$	KRRC031	KR1	276001	7474906	513	30	-90	360	15	25	10	15.2	11.6	10m @ 15.2% Mn & 11.6% Fe from 15m including 4m @ 18% Mn from 15m
	KRRC032	KR1	275801	7474852	509.9	36	-90	360	21	36	15	10.8	9.2	15m @ 10.8% Mn & 9.2% Fe from 21m
	KRRC033	KR1	276294	7474903	516	30	-90	360			0			NSR
211	KRRC034	KR1	276703	7474703	517.7	30	-90	360	6	8	2	25.1	8	2m @ 25.1% Mn & 8% Fe from 6m
$\cup$	KRRC035	KR1	276501	7474703	519.2	24	-90	360			0			NSR
$\frac{1}{7}$	KRRC036	KR1	276303	7474703	518.6	24	-90	360			0			NSR
	KRRC037 KRRC038	KR1 KR1	276102 275903	7474703 7474701	515.5 514.6	18 18	-90 -90	360			0			NSR NSR
	KRRC038	KR1 KR1	275903	7474699	514.0	18	-90	360 360			0			NSR
$\left( \prod \right)$	KRRC040	KR1	276005	7475502	506.7	24	-90	360			0			NSR
JL	KRRC041	KR1	276207	7475500	507.5	30	-90	360			0			NSR
	KRRC042	KR1	276400	7475499	509	18	-90	360			0			NSR
$( \ $	KRRC043	KR1	276500	7475502	510.5	18	-90	360			0			NSR
	KRRC044	KR1	276594	7475499	511.5	24	-90	360			0			NSR
	KRRC045	KR1	276692	7475503	513	36	-90	360	9	29	20	11.4	9.1	20m @ 11.4% Mn & 9.1% Fe from 9m
	KRRC046	KR1	276808	7475501	517	30	-90	360	1	23	22	12.2	9.4	22m @ 12.2% Mn & 9.4% Fe from 1m including 3m @ 18% Mn from 1m
7	KRRC047	KR1	276897	7475498	515.5	24	-90	360	0	13	13	10	7.4	13m @ 10% Mn & 7.4% Fe from 0m
	KRRC048	KR1	277004	7475487	512	18	-90	360		L	0			NSR
	BSRC001	BW	248602	7441203	463	54	-90	360			0			awaiting results
$( \ )$	BSRC002 BSRC003	BW BW	248589 248602	7441298 7441405	463 463	54 84	-90 -90	360 360			0			awaiting results
5	BSRC003 BSRC004	BW	248602 248601	7441405 7441506	463	84 72	-90 -90	360			0			awaiting results awaiting results
_	BSRC004 BSRC005	BW	248600	7441500	463	66	-90	360			0			awaiting results
	BSRC006	BW	248601	7441705	463	60	-90	360			0			awaiting results
	BSRC007	BW	248601	7441100	463	54	-90	360			0			awaiting results
	BSRC008	BW	248606	7441808	463	40	-90	360			0			awaiting results
	BSRC009	BW	248605	7441903	463	42	-90	360			0			awaiting results
	BSRC010 BSRC011	BW	248799 248801	7441704 7441806	463 463	36 42	-90 -90	360 360		<u> </u>	0	ļ		awaiting results awaiting results
	BSRC011 BSRC012	BW	248801	7441808	463	42	-90	360			0			awaiting results
	BSRC012 BSRC013	BW	248799	7441999	463	48	-90	360		1	0			awaiting results
	BSRC014	BW	248997	7441902	463	42	-90	360			0			awaiting results
	BSRC015	BW	248999	7441799	463	42	-90	360			0			awaiting results
	BSRC016	BW	248998	7441690	463	42	-90	360			0			awaiting results
	BSRC017	BW	248200	7441303	463	36	-90	360			0			awaiting results
	BSRC018	BW	248208	7441398	463	36	-90	360			0			awaiting results
	BSRC019 BSRC020	BW BW	248202 248207	7441502 7441603	463 463	36 36	-90 -90	360 360			0			awaiting results awaiting results
	BSRC020 BSRC021	BW	248207 248203	7441603 7441697	463	36	-90 -90	360			0			awaiting results
	55	2.00	2.0205	,,,	.55	30	50	550	I		, v			awaring results



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	BSRC022	BW	248203	7441804	463	36 36	-90 -90	360			0			awaiting results
	BSRC023 BSRC024	BW	248202 247800	7441900 7441410	463 463	40	-90 -90	360 360			0			awaiting results
	BSRC024 BSRC025	BW	247800	7441410 7441610	463	40	-90	360			0			awaiting results awaiting results
	BSRC025 BSRC026	BW	247804	7441010	463	36	-90	360			0			awaiting results
	BSRC027	BW	247801	7442001	463	36	-90	360			0			awaiting results
	BSRC028	BW	249200	7441704	463	36	-90	360			0			awaiting results
	BSRC029	BW	249201	7441799	463	40	-90	360			0			awaiting results
	BSRC030	BW	249398	7441804	463	36	-90	360			0			awaiting results
	BSRC031	BE	249399	7441702	463	36	-90	360			0			awaiting results
	BSRC032	BE	257332	7435327	485	48	-90	360			0			awaiting results
	BSRC033	BE	257210	7435182	485	42	-90	360			0			awaiting results
	BSRC034	BE	257080	7435014	485	42	-90	360			0			awaiting results
$( \ $	BSRC035	BE	257373	7435051	485	40	-90	360			0			awaiting results
	BSRC036	BE	257069	7435298	485	36	-90	360			0			awaiting results
	BSRC037	BE	256770	7436074	485	30	-90	360			0			awaiting results
	BSRC038	BE	256650	7435689	485	30	-90	360	-		0			awaiting results
	BSRC039	BE	256421	7434925	485	54	-90	360			0			awaiting results
$( \square^{4})$	BSRC040 BSRC041	BE	256329 256220	7434636 7434220	485 485	36 30	-90 -90	360 360			0			awaiting results
JU	BSRC041 BSRC042	BE	256220	7434220	485	30	-90	360			0			awaiting results awaiting results
	BSRC042 BSRC043	BE	257385	7435402	485	60	-90	360			0			awaiting results
AR	BSRC044	BE	257463	7435481	485	48	-90	360			0			awaiting results
$\bigcup$	BSRC045	BE	255604	7438306	485	24	-90	360			0			awaiting results
U	BSRC046	BE	255598	7438204	485	24	-90	360			0			awaiting results
	BSRC047	BE	255601	7438103	485	24	-90	360			0	1		awaiting results
	BSRC048	BE	255604	7437999	485	24	-90	360			0			awaiting results
	BSRC049	BE	255602	7437901	485	24	-90	360			0			awaiting results
	BSRC050	BE	255603	7437801	485	24	-90	360			0			awaiting results
	BSRC051	BE	255600	7437705	485	24	-90	360			0			awaiting results
	BSRC052	BE	255599	7437602	485	24	-90	360			0			awaiting results
	BSRC053	BE	254798	7438102	485	30	-90	360			0			awaiting results
	BSRC054	BE	254798	7438002	485	24	-90	360			0			awaiting results
	BSRC055	BE	254797	7437903	485	30	-90	360			0			awaiting results
D D	BSRC056	BE	254796	7437805	485	24	-90	360			0			awaiting results
	BSRC057	BE	254798	7437706	485	24	-90	360			0			awaiting results
	BSRC058	BE	254801	7437605	485	24	-90	360			0			awaiting results
	BSRC059	BE	256999 256994	7438206 7438102	485 485	36 30	-90 -90	360 360			0			awaiting results
	BSRC060 BSRC061	BE	256994	7438102	485	24	-90	360			0			awaiting results awaiting results
$( \ $	BSRC001 BSRC062	BE	256996	7437901	485	24	-90	360			0			awaiting results
	BSRC063	BE	256996	7437301	485	24	-90	360			0			awaiting results
	BSRC064	BE	256997	7437702	485	24	-90	360			0			awaiting results
A G	BSRC065	BE	256999	7437607	485	24	-90	360			0			awaiting results
(U)	BSRC066	BE	256997	7437510	485	24	-90	360			0			awaiting results
	KRRC049	KR1	276102	7475702	506.4	24	-90	360			0			awaiting results
	KRRC050	KR1	276299	7475700	505	24	-90	360			0			awaiting results
	KRRC051	KR1	276502	7475703	508.5	30	-90	360			0			awaiting results
1	KRRC052	KR1	276602	7475702	508	30	-90	360			0			awaiting results
	KRRC053	KR1	276705	7475701	510	48	-90	360			0			awaiting results
UL	KRRC054	KR1	276799	7475701	511	24	-90	360			0			awaiting results
1	KRRC055	KR1	276902	7475701	511.5	30	-90	360			0			awaiting results
$( \square$	KRRC056	KR1	276998	7475705	511	24	-90	360			0			awaiting results
1	KRRC057	KR1	277102	7475702	510	24	-90	360			0			awaiting results
	KRRC058	KR1	277201	7475701	508	24	-90	360			0			awaiting results
	KRRC059	KR1	276701	7475900	508	42	-90	360			0			awaiting results
7	KRRC060	KR1 KR1	276798	7475901	510 510	48	-90	360			0			awaiting results
	KRRC061 KRRC062	KR1 KR1	276902 276999	7475903 7475898	510 510	12 36	-90 -90	360 360	-		0		-	awaiting results awaiting results
	KRRC062 KRRC063	KR1 KR1	276999	7475898	510	24	-90 -90	360			0			awaiting results awaiting results
$( \ $	KRRC063 KRRC064	KR1 KR1	277200	7475898	509	24	-90	360			0			awaiting results awaiting results
	KRRC065	KR1 KR1	276501	7476099	505	24	-90	360			0			awaiting results
	KRRC066	KR1 KR1	276704	7476098	505	48	-90	360			0			awaiting results
	KRRC067	KR1	276808	7476103	505	40	-90	360			0			awaiting results
	KRRC068	KR1	276895	7476103	507.5	42	-90	360			0			awaiting results
	KRRC069	KR1	276997	7476097	509	12	-90	360			0			awaiting results
	KRRC070	KR1	277099	7476102	509	30	-90	360			0			awaiting results
	KRRC071	KR1	277198	7476102	508	24	-90	360			0			awaiting results
	KRRC072	KR1	277299	7476101	506	24	-90	360			0			awaiting results
	KRRC073	KR1	276499	7476301	503	30	-90	360			0			awaiting results
	KRRC074	KR1	276699	7476300	504	60	-90	360			0			awaiting results
	KRRC075	KR1	276901	7476303	505	54	-90	360			0			awaiting results
	KRRC076	KR1	277007	7476298	508	48	-90	360			0			awaiting results
	KRRC077	KR1	277103	7476301	508	12	-90	360			0			awaiting results
	KRRC078	KR1	277202	7476300	507	30	-90	360			0			awaiting results
	KRRC079	KR1	277300	7476301	506	24	-90	360			0			awaiting results
	KRRC080	KR1	277399	7476307	505	24	-90	360			0			awaiting results
	KRRC081	KR1	276496	7476498	502	30	-90	360			0			awaiting results
	KRRC082	KR1	276698	7476498	503	24	-90	360			0			awaiting results
	KRRC083	KR1	276902	7476503	507	30	-90	360			0			awaiting results



NOCE         NUL         2772         712         87         80         <		KERCOOA	KD4	370000	7476502	507	24	00	200	I	I		1	I	
HR08         61.0         277.0         77.007         7.0         17.0         7.0 <th7.0< th="">         7.0         7.0         <th7< td=""><td></td><td>KRRC084</td><td>KR1</td><td>276999</td><td>7476502</td><td>507</td><td>24</td><td>-90</td><td>360</td><td></td><td></td><td>0</td><td></td><td></td><td>awaiting results</td></th7<></th7.0<>		KRRC084	KR1	276999	7476502	507	24	-90	360			0			awaiting results
Incode 1         040         17720         7588         05         180         0										-				-	-
Introde         Int         177020 <td></td>															
PRUSE         PAG         JUNCO         PAD															awaiting results
Instage         Rota         Junge         Junge <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>awaiting results</td></t<>															awaiting results
IPRO22         IPRO23         IPRO24         IPRO24 <thipro24< th=""> <thipro24< th=""> <thipro24< td="" th<=""><td></td><td>KRRC090</td><td>KR1</td><td>276701</td><td>7476902</td><td>503</td><td>48</td><td>-90</td><td>360</td><td></td><td></td><td>0</td><td></td><td></td><td>awaiting results</td></thipro24<></thipro24<></thipro24<>		KRRC090	KR1	276701	7476902	503	48	-90	360			0			awaiting results
SNR020         011         27701         707000         500         24         400         380         0         0         1         ensuing res           SNR025         H01         277807         707000         500         60         380         0         0         38010         0		KRRC091	KR1	276898	7476902	505	36	-90	360			0			awaiting results
NRD020         NR1         27407         790704         900 <th< td=""><td></td><td>KRRC092</td><td>KR1</td><td>277101</td><td>7476907</td><td>508</td><td>36</td><td>-90</td><td>360</td><td></td><td></td><td>0</td><td></td><td></td><td>awaiting results</td></th<>		KRRC092	KR1	277101	7476907	508	36	-90	360			0			awaiting results
NNCOP         091.3         22603         707900         902         90.6															awaiting results
NNOTE         UNIT         278001         707991         SS0         P         A         B															awaiting results
NERGEY         011         25604         74/404         238         42         40         400         100         100         1000000000000000000000000000000000000															-
SNUC29         VATAGO         1.14         4.0         90         900         90         90															-
980039         192         231402         772/01         290         20         200 <th< td=""><td>( (</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	( (														
NRC00         NRC 2         28.640         77200         20         24         90         200         0         0         proving etc.           NRC02         NRC 2         28.733         77208         500         24         400         260         0         assung etc.           NRC02         NRC 2         28.733         77208         500         24         400         260         0         assung etc.           NRC02         NRC 2         28.1242         772208         500         24         400         260         0         assung etc.           NRC03         R42         28.1242         772208         500         24         400         0         assung etc.															
MRCID1         642         977200         NO         24         90         800         0         0         100         1000000000000000000000000000000000000															awaiting results
NRC102         NRC         22170         7772/H         900         24         900         900         0         0         1         asouting res.           188C138         NR2         281204         772208         500         36         90         800         0         0         asouting res.           188C136         NR2         28104         772208         500         30         400         0         0         asouting res.           188C136         NR2         28104         772203         500         30         400         400         0         asouting res.           188C137         CO2         28101         772203         500         30         400         400         0         asouting res.           198C131         CO2         28100         721001         500         23         400         200         0         0         asouting res.           198C131         US2         25307         773101         400         24         400         260         0         0         asouting res.           198C031         PK         25307         773100         400         24         400         200         0         0         aso															awaiting results
NRC114         HOV         232104         777003         500         24         400         0         0         100	61	KRRC102	KR2	281703	7472204	500	24	-90	360			0			awaiting results
NRC.25         NRC.2         281661         772203         500         90		KRRC103	KR2	281502	7472204	500	36	-90	360			0			awaiting results
NRKC10         NRK2         295862         747203         500         90         90         90         0 <td>UL</td> <td>KRRC104</td> <td>KR2</td> <td>281204</td> <td>7472003</td> <td>500</td> <td>24</td> <td>-90</td> <td>360</td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td>awaiting results</td>	UL	KRRC104	KR2	281204	7472003	500	24	-90	360			0			awaiting results
MRKL07         MRX         283803         747205         500         24         900         900         90         900         90         900         9	27														awaiting results
NRTC.30         NRT.2         23.400         77.206         500         30         0 <td>(C/C)</td> <td></td> <td>awaiting results</td>	(C/C)														awaiting results
INRCLOP         INRCLOP         281201         771803         500         24         900         500         0         0         0         000000000000000000000000000000000000	$\bigcup$														awaiting results
ISRC110         ISRC2         281302         771601         500         24         90         90         0         0         Isrc2         381302         771601         500         24         90         360         0         0         aswing res           PRC010         PK         231302         771100         400         24         90         360         0         0         aswing res           PRC000         PK         232404         771700         400         24         90         360         0         0         aswing res           PRC000         PK         232403         7717100         400         24         90         360         0         0         aswing res           PRC000         PK         232402         771700         400         24         90         360         0         0         aswing res           PRC000         PK         232402         771700         400         24         400         360         0         0         aswing res           PRC000         PK         23200         771700         400         24         400         360         0         0         aswing res           PRC010															awaiting results
WRG11         MR2         28107         771601         500         30         30         300         0         0         1         Perklope           PRG001         PK         232077         777083         400         24         400         300         0         0         Perklope           PRG001         PK         23237         777093         400         24         400         300         0         0         Perklope           PRG003         PK         23237         777103         400         24         400         300         0         0         Perklope           PRG003         PK         232401         771201         400         24         400         300         0         0         Perklope         Perklope<															
KRC112         KRC112         KRC12         Z23240         Y270098         480         Z4         490         300         O         O         Description           PKKC002         PK         Z232401         Y271210         480         Z4         490         300         O         O         Description           PKKC002         PK         Z232401         Y271200         480         24         490         300         O         O         Description           PKKC006         PK         Z232401         Y271301         480         24         490         300         O         O         Description           PKKC006         PK         Z23202         Y271507         480         24         490         300         O         O         Description         De										<u> </u>					
PKRC011         PK         222404         747098         480         24         490         360         0         0         0         2940100           PKRC021         PK         223237         7471200         480         24         490         360         0         0         2940100           PKRC021         PK         223201         7471201         480         24         490         360         0         0         2940100           PKRC025         PK         223201         7471201         480         24         490         360         0         0         2940101           PKRC026         PK         22202         747100         480         24         490         360         0         0         2940101         2940101         2940101         29400         0         0         2940101         2940101         24400         360         0         0         29401011         29400         360         0         29401011         2940101         24400         360         0         29490101         2940101         29401011         29401011         24400         360         0         294901011         294010111         294010111         29401001         29401001 <td></td>															
PHEC02         PK         23397         747101         480         24         90         360         0         0         maximing res           PHEC03         PK         23401         747120         480         24         90         360         0         0         maximing res           PHEC064         PK         253401         7471301         480         24         90         360         0         0         maximing res           PHEC066         PK         253403         7471501         480         24         90         360         0         0         maximing res           PHEC086         PK         25203         7471604         480         24         90         360         0         0         maximing res           PHEC087         PK         25203         747164         480         24         30         360         0         0         maximing res           PHEC012         PK         252193         7471205         480         24         30         360         0         0         maximing res           PHEC012         PK         25201         747166         480         24         30         360         0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>															
PRC03         PK         252403         747200         480         24         90         360         0         0         memory           PRC05         PK         253401         7471301         480         24         90         360         0         0         memory           PRC05         PK         253402         7471507         480         24         90         360         0         0         memory           PRC037         PK         252202         7471307         480         24         90         360         0         0         memory           PRC038         PK         252203         7471307         480         24         90         360         0         0         memory         memory           PRC030         PK         252193         7471303         480         24         30         360         0         0         memory															awaiting results
PRECOD5         PK         222402         7471501         480         24         90         360         0         0         availing ress           PRECOD7         PK         232202         7471501         480         24         400         360         0         0         availing ress           PRECOB7         PK         232203         7471501         480         24         400         360         0         0         availing ress           PRECOB8         PK         232183         7471203         480         24         400         360         0         0         availing ress           PRECO10         PK         252184         7471203         480         24         400         360         0         0         availing ress           PRECO12         PK         252181         7471204         480         24         400         360         0         0         availing ress           PRECO12         PK         25201         7471204         480         24         400         360         0         0         availing ress           PRECO15         PK         25201         7471204         480         24         400         360															awaiting results
PRECODE         PK         223/203         7/271807         480         24         90         360         0         0         128/2011           PRECODE         PK         232/203         7/271801         480         24         40         360         0         0         awaiting ress           PRECODE         PK         252193         7/271801         480         24         40         360         0         0         awaiting ress           PRECODI         PK         252193         7/271301         480         24         40         360         0         0         awaiting ress           PRECOIL         PK         252193         7/271301         480         24         40         360         0         0         awaiting ress           PRECOIL         PK         252201         7/271306         480         24         40         360         0         0         awaiting ress           PRECOIS         PK         252021         7/271304         480         24         40         360         0         0         awaiting ress           PRECOIS         PK         252021         7/271301         480         24         40         360	GF	PKRC004	РК	252401	7471301	480	24	-90	360			0			awaiting results
PFRC007         PK         23202         7471307         480         24         -90         360         0         0         awaiting res           PKRC008         PK         25203         7471404         480         24         -90         360         0         0         awaiting res           PKRC009         PK         252198         7471205         480         24         -90         360         0         0         awaiting res           PKRC010         PK         252198         7471205         480         24         -90         360         0         0         awaiting res           PKRC012         PK         252201         7471004         480         24         -90         360         0         0         awaiting res           PKRC012         PK         25201         7471406         480         24         -90         360         0         0         awaiting res           PKRC016         PK         252021         7471404         480         24         -90         360         0         0         awaiting res           PKRC016         PK         252021         7471974         480         24         -90         360         0	$\left( \left( \right) \right)$	PKRC005	РК	252402	7471403	480	24	-90	360			0			awaiting results
PYBC008         PK         23203         7471403         480         24         -90         360         0         0         aswaiting res           PKRC010         PK         252198         7471203         480         24         -90         360         0         0         aswaiting res           PKRC011         PK         252198         747107         480         24         -90         360         0         0         aswaiting res           PKRC011         PK         252198         747105         480         24         -90         360         0         0         aswaiting res           PKRC013         PK         252020         747106         480         24         -90         360         0         0         aswaiting res           PKRC015         PK         252021         747104         480         24         -90         360         0         0         aswaiting res           PKRC016         PK         252021         747107         480         24         -90         360         0         0         aswaiting res           PKRC018         PK         252020         747107         480         24         -90         360 <t< td=""><td>00</td><td>PKRC006</td><td></td><td>252403</td><td>7471500</td><td>480</td><td>24</td><td>-90</td><td>360</td><td></td><td></td><td>0</td><td></td><td></td><td>awaiting results</td></t<>	00	PKRC006		252403	7471500	480	24	-90	360			0			awaiting results
PRC009         PK         252199         7471303         480         24         -90         360         0         0         availing res           PKRC011         PK         252198         7471107         480         24         -90         360         0         0         availing res           PKRC012         PK         252101         7471004         480         24         -90         360         0         0         availing res           PKRC012         PK         252001         7471064         480         24         -90         360         0         0         availing res           PKRC014         PK         252021         7471406         480         24         -90         360         0         0         availing res           PKRC015         PK         252021         7471204         480         24         -90         360         0         0         availing res           PKRC019         PK         252020         7471204         480         24         -90         360         0         0         availing res           PKRC019         PK         252020         7471204         480         24         -90         360 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>awaiting results</td></td<>															awaiting results
PPSRC010         PK         252198         7471205         480         24         -90         360         0         0         awaiting res.           PKRC011         PK         252198         7471007         480         24         -90         360         0         0         awaiting res.           PKRC012         PK         25201         7471004         480         24         -90         360         0         0         awaiting res.           PKRC013         PK         252021         7471304         480         24         -90         360         0         0         awaiting res.           PKRC015         PK         252021         7471304         480         24         -90         360         0         0         awaiting res.           PKRC015         PK         252021         7471304         480         24         -90         360         0         0         awaiting res.           PKRC017         PK         252020         747107         480         24         -90         360         0         0         awaiting res.           PKRC015         PK         252020         7471097         480         24         -90         360	(														awaiting results
PKR011         PK         252198         7471107         480         24         -90         360         0         0         awaiting res.           PKR0112         PK         25201         7471064         480         24         -90         360         0         awaiting res.           PKR014         PK         25202         7471366         480         24         -90         360         0         awaiting res.           PKR014         PK         252021         7471304         480         24         -90         360         0         awaiting res.           PKR016         PK         252021         7471304         480         24         -90         360         0         awaiting res.           PKR017         PK         252020         747107         480         24         -90         360         0         awaiting res.           PKR019         PK         252020         747107         480         24         -90         360         0         awaiting res.           PKR021         PK         256030         746703         480         24         -90         360         0         awaiting res.           PKR021         PK         2560		_													awaiting results
PKR012         PK         25201         7471004         480         24         -90         360         0         awaiting res.           PKR013         PK         252020         7471506         480         24         -90         360         0         awaiting res.           PKR015         PK         252021         7471306         480         24         -90         360         0         awaiting res.           PKR015         PK         252021         7471304         480         24         -90         360         0         awaiting res.           PKR016         PK         252021         7471204         480         24         -90         360         0         awaiting res.           PKR017         PK         252020         747197         480         24         -90         360         0         awaiting res.           PKR018         PK         252020         747937         480         24         -90         360         0         awaiting res.           PKR022         PK         25603         7467705         480         24         -90         360         0         awaiting res.           PKR022         PK         256002 <td< td=""><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>				-											
PKC013         PK         25200         7471566         480         24         -90         360         0         0         awaiting res           PKC014         PK         25201         7471304         480         24         -90         360         0         awaiting res           PKC015         PK         25201         7471304         480         24         -90         360         0         awaiting res           PKC016         PK         252021         7471304         480         24         -90         360         0         awaiting res           PKC018         PK         252020         747107         480         24         -90         360         0         0         awaiting res           PKC019         PK         25635         7467803         480         24         -90         360         0         0         awaiting res           PKC020         PK         256401         7467605         480         24         -90         360         0         0         awaiting res           PKC021         PK         256000         7468014         480         24         -90         360         0         0         awaiting res	$( \ $									-				-	
PKRC014         PK         252021         7471406         480         24         -90         360         0         awaiting res           PRC015         PK         252021         7471304         480         24         -90         360         0         awaiting res           PRC016         PK         252021         7471204         480         24         -90         360         0         awaiting res           PRC017         PK         252020         7471207         480         24         -90         360         0         awaiting res           PRC018         PK         252020         747097         480         24         -90         360         0         awaiting res           PKC020         PK         256401         746705         480         24         -90         360         0         awaiting res           PKC021         PK         256401         746705         480         24         -90         360         0         awaiting res           PKC022         PK         256000         746801         480         24         -90         360         0         awaiting res           PKC023         PK         255000         746801															-
PKRC015         PK         252021         7471304         480         24         -90         360         0         awaiting res           PKRC016         PK         252021         7471204         480         24         -90         360         0         0         awaiting res           PKRC017         PK         252020         747107         480         24         -90         360         0         0         awaiting res           PKRC018         PK         252020         747097         480         24         -90         360         0         0         awaiting res           PKRC020         PK         256403         7467705         480         24         -90         360         0         0         awaiting res           PKRC021         PK         256401         7467605         480         24         -90         360         0         0         awaiting res           PKRC021         PK         256401         7467605         480         24         -90         360         0         0         awaiting res           PKRC023         PK         255090         746804         480         24         -90         360         0         0															-
PKRC015         PK         252021         7471204         480         24         90         360         0         awaiting res.           PRRC017         PK         252020         7471007         480         24         90         360         0         awaiting res.           PRRC018         PK         252020         7477997         480         24         90         360         0         awaiting res.           PKRC019         PK         255395         7457803         480         24         90         360         0         awaiting res.           PKRC019         PK         2556403         7457705         480         24         90         360         0         awaiting res.           PKRC021         PK         256401         7467605         480         24         90         360         0         awaiting res.           PKRC023         PK         256000         7468014         480         24         90         360         0         awaiting res.           PKRC023         PK         256000         746804         480         24         90         360         0         awaiting res.           PKR024         PK         256001	AR														awaiting results
PKRC018         PK         252020         7470997         480         24         -90         360         0         awaiting res.           PKRC019         PK         255395         7467803         480         24         -90         360         0         awaiting res.           PKRC020         PK         255403         7467705         480         24         -90         360         0         awaiting res.           PKRC021         PK         256401         7467605         480         24         -90         360         0         awaiting res.           PKRC022         PK         256000         7468004         480         24         -90         360         0         awaiting res.           PKRC023         PK         255000         7468004         480         24         -90         360         0         awaiting res.           PKR024         PK         256001         7467802         480         24         -90         360         0         awaiting res.           PKR025         PK         256001         7467802         480         24         -90         360         0         awaiting res.           PKR027         PK         255001	$\left( \cup \right)$	PKRC016	PK	252021	7471204	480	24	-90	360			0			awaiting results
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	ľ	PKRC042	РК	254396	7467605	480	24	-90	360			0	1		awaiting results

\* holes KRRC025 and KRRC026 are twin holes



## Appendix 2. JORC 2012 Table 1

### Section 1 Sampling Techniques and Data



Criteria	JORC Code explanation	Commentary
and laboratory tests	<ul> <li>whether the technique is considered partial or total.</li> <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 (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.</li> </ul>	<ul> <li>The 2 – 3kg samples were weighed and dried prior to pulverising 100% of the sample 95% passing 105µm.</li> <li>The sample was then analysed using method XF103 for manganese ores using fusion disc XRF for Fe, SiO2, Mn, Al2O3, TiO2, P2O5, S, MgO, K2O, Na2O, CaO, BaO and Cr2O3.</li> <li>Loss on Ignition (LOI) was also measured by Thermo Gravimetric Analysis (TGA)</li> <li>Review of the quality control results received to date that include CRM, blanks, duplicates show an acceptable level of accuracy (lack of bias) and precision has been achieved.</li> <li>In addition, Bureau Veritas has undertaken its own internal QAQC checks using CRM, Blanks and pulp duplicates and no issues have been reported or identified.</li> <li>The CP is satisfied that the analysis was completed to an acceptable standard in the context in which the results have been reported</li> </ul>
Verification of sampling and assaying	<ul> <li>The verification of significant intersections by either independent or alternative company personnel.</li> <li>The use of twinned holes.</li> <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 significant intersections have not been verified by independent personnel.</li> <li>Once the assays are received the new drill assay data will be compared to the previous drill hole assays by the Independent Resource Geologist</li> </ul>
Location of data points	<ul> <li>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.</li> <li>Specification of the grid system used.</li> <li>Quality and adequacy of topographic control.</li> </ul>	<ul> <li>Once a drill hole was completed the drill collar was located using a GARMIN handheld GPS with an accuracy of +/- 5m</li> <li>The grid system is UTM zone 51, GDA94 datum.</li> <li>The topography is quite flat reflecting the underlying stratigraphy. The holes are shallow and downhole deviation is not considered material in the context of these results</li> </ul>
Data spacing and distribution	<ul> <li>Data spacing for reporting of Exploration Results.</li> <li>Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.</li> <li>Whether sample compositing has been applied.</li> </ul>	<ul> <li>Drill line and hole spacing has been described for each prospect in the main body of the text.</li> <li>No sample compositing has been applied</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 deposits are interpreted to be is flat and gently plunging. Drill logs and assay data have identified cross cutting dolerite dykes that may have intruded into zones of structura weakness. Further drilling and interpretation are required to ascertain the impact of dolerite intrusions on the mineralisation.</li> <li>The drill hole orientation otherwise is suitable for this style of mineralisation and considered appropriate and unlikely to introduce sample bias</li> </ul>
Sample security	The measures taken to ensure sample security.	<ul> <li>The samples were collected into bulka bags, sealed with cable ties and stored on site until the drill program was completed.</li> <li>The samples were then trucked to Perth in three consignments and delivered directly to Bureau Veritas in Canningvale.</li> <li>The bulka bags were inspected and audited by Bureau Veritas who did not report any suspicious or tampered samples</li> </ul>
Audits or reviews	<ul> <li>The results of any audits or reviews of sampling techniques and data.</li> </ul>	<ul> <li>Other than internal review by Company staff, no audits have been completed.</li> <li>The CP was on site for some of the RC drill program and considers the sampling and sub sampling techniques to be equal to industry standard and appropriate for the style of mineralisation and the results being reported.</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	Type, reference name/number, location and	The drilling was undertaken on granted tenements
tenement and	ownership including agreements or material	E46/1383, E46/1404 and E46/1396



Criteria	JORC Code explanation	Commentary
land tenure status	<ul> <li>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> <li>Acknowledgment and appraisal of exploration by</li> </ul>	<ul> <li>The tenements and all mineral rights are 100% owned by Black Canyon Ltd apart from E46/1383 where Killi Resources owns the copper rights.</li> <li>The tenements have Native Title Heritage Protection Agreements in place with the Karlka Nyiyaparli People that required a Heritage Survey to be undertaken prior to groun disturbing activities. Both Ethnographic and Archeologic surveys have been completed prior to commencement of site activities.</li> <li>There are no other known impediments to exploring the listed tenements</li> <li>There has been limited exploration work carried out on the</li> </ul>
done by other parties	other parties.	<ul> <li>tenements for manganese.</li> <li>There has been no drilling carried out by past explorers specifically targeting manganese on these tenements</li> </ul>
Geology	<ul> <li>Deposit type, geological setting and style of mineralisation.</li> </ul>	<ul> <li>The tenements are located within the Oakover Basin, the edges of which are defined by the Neoarchaean Fortescue Group. Most of the tenements are covered by quaternary alluvium, sheetwash with restricted outcrop that comprises rocks of the Manganese Group, mainly the Encheddong Dolomite and Balfour Formation. The tenements contain widespread manganese scree associated with manganese enriched Balfour Formation shales.</li> <li>The mineralisation is described as supergene manganese enriched shale. The host Mn shale is gradually enriched in manganese as it weathers or is leached and redeposited ir the upper zones. The upgrades can be substantial and are often associated with iron. Structural enhancement maybe factor in developing thick zones of mineralisation. Both Mn and Fe are very mobile in the near surface environment in WA.</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 explain why this is the case.</li> </ul>	<ul> <li>Refer to Appendix 1 for a complete listing of the RC drill holes completed across the Balfour Manganese Field for th July 2023 RC drill program by Black Canyon</li> </ul>
Data aggregation methods	<ul> <li>In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.</li> <li>Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.</li> <li>The assumptions used for any reporting of metal equivalent values should be clearly stated.</li> </ul>	<ul> <li>Only length (1m) weighted intervals are included in the tex of this release.</li> <li>Manganese intervals have been reported at 7% Mn cut off allowing dilution that still enables the total reported grade t be greater than 7% Mn.</li> <li>Iron intervals have been reported as they coincide with the Mn intervals and no cut offs are applied.</li> <li>No metal equivalent values are used.</li> </ul>
Relationship between mineralisatio n widths and intercept lengths	<ul> <li>These relationships are particularly important in the reporting of Exploration Results.</li> <li>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</li> <li>If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known').</li> </ul>	<ul> <li>The deposit is mostly flat lying exhibiting a gentle dip of mineralisation to the west therefore 90° angled (vertical) dr holes are considered appropriate.</li> <li>The drill results reported are interpreted to represent close true widths of the mineralisation and are reported at down hole length.</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</li> </ul>	<ul> <li>These have been included in the body of the release when relevant and material to the reader's understanding of the results in regard to the context in which they have been</li> </ul>



Criteria	JORC Code explanation	Commentary
	should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.	reported.
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.	<ul> <li>Information considered material to the reader's understanding of the Exploration Results has been reported. in the body of the text and significant results have selectively been reported to provide the reader with the potential tenor and widths of the mineralisation</li> <li>APPENDIX 1- contains the location, drill holes details and assay results as received for the July 2023 drill program.</li> <li>Holes denoted with NSR indicated that no mineralisation over 7% Mn was detected in that hole.</li> </ul>
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.	<ul> <li>All information considered material to the reader's understanding and context of the RC Exploration Results have been reported.</li> </ul>
Further work	<ul> <li>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).</li> <li>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</li> </ul>	<ul> <li>Further work is planned that includes further infill drilling and diamond core drilling for large scale metallurgical testwork.</li> <li>Down hole geophysical surveys for magnetic susceptibility density and gamma radiation to be completed and will be used to update the lithological logging.</li> <li>It is anticipated that the targets drilled from this RC program will have potential for eventual economic extraction and Mineral Resources and or Exploration Targets will be generated subject to review of the geological and grade continuity of the drill logging and assays results respectively.</li> </ul>