



Excellent results from Cascade drilling

17 September 2015

Highlights

- Assays from the first two drill holes at Cascade return the best intersections to date:
 - 88m@ 9.68 TGC% including 44m@ 11.09% from RC41
 - 60m@ 10.00% TGC including 22m@ 11.46% from RC42
- New trench results confirm high grade mineralisation at Cascade southwest: 60m@ 9.47% TGC
- Cascade prospect has the potential to be both larger in size and higher in grade than the Epanko north prospect
- Follow-up drill programme fast tracked to commence in early October 2015

Black Rock Mining Limited (ASX:BKT) (“BKT” or “the Company”) is pleased to announce highly encouraging results from the first two drill holes completed at the recently discovered Cascade prospect at the Mahenge project, Tanzania. These results, together with new trench assays, indicate that the Cascade prospect has the potential to be both larger in size and higher in grade than the recently drilled Epanko north prospect.

Drilling is currently underway at the adjacent Ulanzi prospect, where six holes have been completed and another six to eight RC holes are planned. Core from the first diamond holes at Ulanzi (DD14 &15) intersected over 80m of graphitic mineralisation. Assay results for the next two Cascade holes are expected by the end of September with a follow-up drill programme planned to commence in early October.



Photo 1. Drilling at Cascade Prospect



Cascade Prospect

The Cascade prospect is a new discovery which was mapped and extensively sampled prior to completing the recent first-pass RC drill programme. To date, four RC holes have been drilled, each returning graphitic schist intervals with good visual graphite throughout the hole. Assay results for the first two drill holes returned:

- **RC41: 88m@ 9.68% TGC including 44m@ 11.09%**
- **RC42: 60m@ 10.00% TGC including 22m@ 11.46%**

The Company considers this to be an excellent initial result from Cascade. As both holes began in graphite mineralisation, additional holes will be drilled from the east to determine the full width of lode, which is currently over 70m. We expect the overall width of mineralisation across this 9042150N line to increase with additional drilling to the east of RC41. A total of ten holes are initially planned for this prospect.

The first two drilled holes, RC41 and RC42, are on the western Cascade lode, interpreted to be over 1km in strike length and between 60-120m in width. A previous trench result 250m to the south of the recent drill holes returned a result of **98m @ 10.3% TGC**, complementing the latest result of **60m @ 9.47% TGC** further to the south.

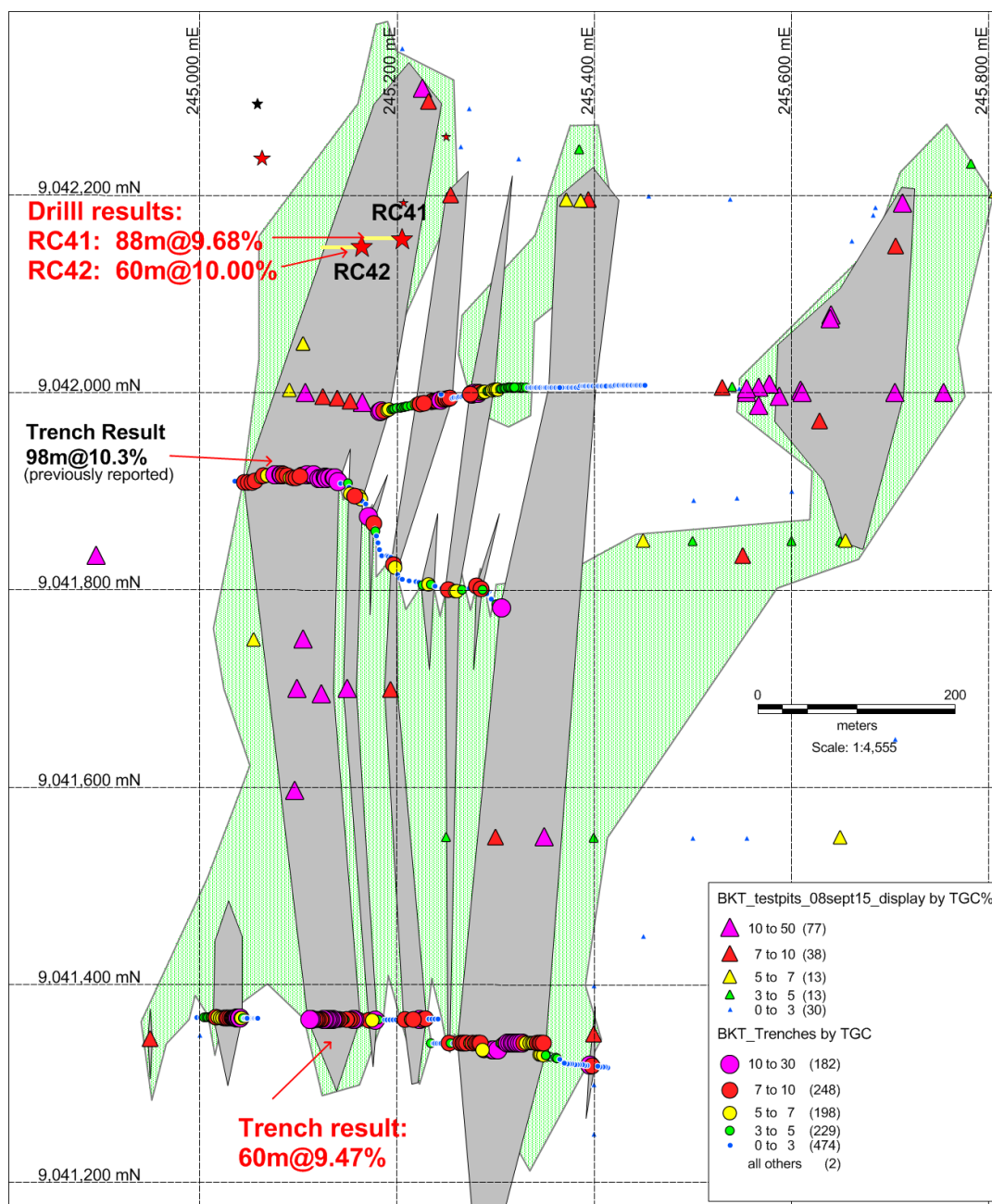


Figure 1. Cascade plan view showing the location of holes RC41 and RC42, together with trenching and test pit sampling. Green shaded area is the graphite mineralised footprint with the grey linear features interpreted as N-S trending graphite lodes.



Mahenge Prospect Map

Figure 2 shows the location of Epanko north in relation to the Cascade and Ulanzi prospects, with the interpreted graphitic mineralised zones shaded in grey. The strike length of the Ulanzi prospect is currently deemed to be 3km and is expected to increase along strike as the ground to the north and south is evaluated.

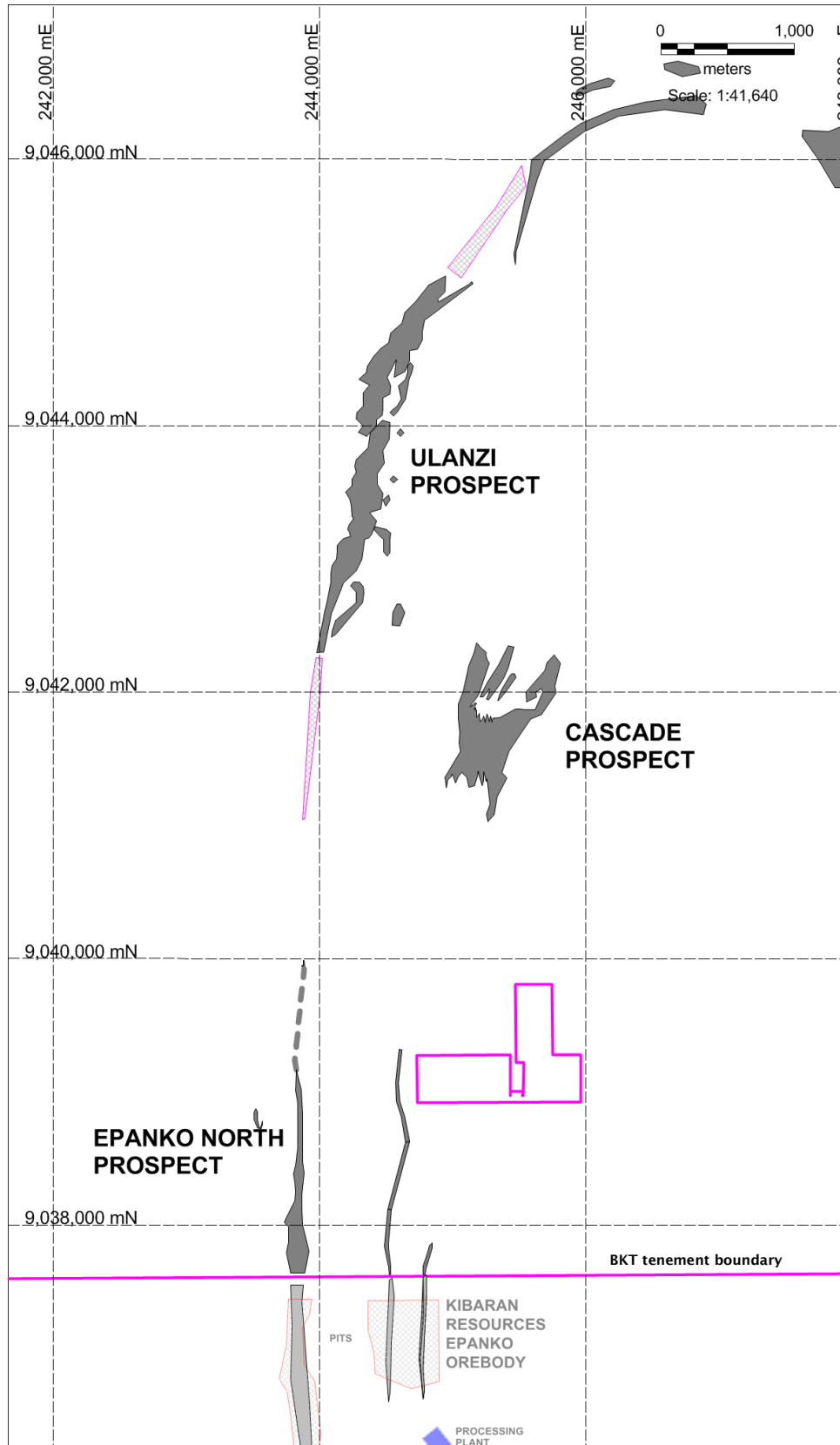


Figure 2. Mahenge mineralised structures and prospects



Summary

Since completing the infill drill programme at Epanko north mid August, drill rigs have been relocated to complete a first-pass drill programme of the newly discovered high-grade graphite mineralisation at the Cascade and Ulanzi prospects. The current drilling programme is testing the two most significant graphite zones found to date at Mahenge, each with the potential to deliver a stand-alone graphite resource.

The maiden drill results from the Cascade prospect represent a highly encouraging start to drilling out a graphitic structure that is significantly larger in size than the Epanko north prospect. Drill results, trench results and outcrop sampling at Cascade closely correlate structure and grade. Drilling will recommence as soon as practical, most likely in early October, following completion of the first stage Ulanzi drill programme.

Results from the next two holes completed at the Cascade prospect are expected by late September, which will be closely followed by the expected release of the initial drill results from the Ulanzi prospect. The Ulanzi prospect has a significantly larger graphite mineralised footprint than Cascade in area and based upon extensive surface sampling is expected to contain higher graphite grades. The Company keenly awaits further assay results from the ongoing exploration programme.

"Whilst BKT awaits the calculation of its maiden JORC compliant resource for the Epanko north prospect, expected by the end of 2015, the Company has moved quickly to capitalise on the new Cascade and Ulanzi discoveries. Early stage results are compelling, returning consistent high graphite grades and straightforward geometry. From the exploration work completed to date, the Company expects both the Ulanzi and Cascade prospects to contribute significant resource tonnes as they are drilled," said Steven Tambanis, Managing Director.

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About Black Rock Mining

Black Rock Mining Limited is an Australian based company listed on the Australian Securities Exchange. The Company has graphite tenements in the Mahenge region, Tanzania, a country considered to host world-class graphite mineralisation. Drilling of the Epanko north prospect was completed in August 2015 and drilling of two new graphite discoveries, the Cascade and Ulanzi prospects, is currently underway. The Company plans to announce a JORC compliant resource by the end of 2015.

The company is building a skill and knowledge base to become an explorer, developer and diversified holder of graphite resources.

Shareholder value will be added by:

- *identifying and securing graphite projects with economic potential*
- *focussing on tenure that can be commercialised quickly by converting into JORC compliant resources; and*
- *taking these resources into production*

Our focus is on establishing a JORC resource from three advanced prospects at Mahenge, whilst further adding resource upside through exploration.

Competent Person Statement

The information in this report that relates to Exploration Results is based on information compiled by Steven Tambanis, who is a member of the AusIMM. He is an employee of Black Rock Mining Limited. Steven Tambanis has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 and 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Steven Tambanis consents to the inclusion in the report of the matters based on their information in the form and context in which it appears.



Appendices

Tables. Detailed drill and trench results summary.

From RC41	To	Sample #	TGC% Interval	From RC42	To	Sample #	TGC% Interval	Sample #	TGC%	Interval
0	2	O0775	9.88	0	2	O0923	5.98	A148725	0.15	Trench sampling - T3 Cascade -west
2	4	O0776	11.80	2	4	O0924	6.97	A148726	0.17	
4	6	O0777	9.29	4	6	O0925	12.55	A148727	0.29	
6	8	O0778	11.25	6	8	O0926	10.10	A148728	1.60	
8	10	O0779	7.06	8	10	O0927	10.80	A148729	1.52	
10	12	O0781	9.43	10	12	O0928	8.74	A148730	6.88	
12	14	O0782	7.80	12	14	O0929	8.23	A148731	2.50	
14	16	O0783	8.36	14	16	O0930	12.20	A148732	6.68	
16	18	O0784	6.26	16	18	O0931	12.75	A148733	13.30	
18	20	O0785	6.65	18	20	O0932	18.85	A148734	10.85	
20	22	O0786	9.72	20	22	O0933	10.75	A148735	9.55	
22	24	O0787	9.99	22	24	O0934	9.63	A148736	9.38	
24	26	O0788	9.00	24	26	O0935	11.45	A148737	6.58	
26	28	O0789	2.42	26	28	O0936	5.99	A148738	9.25	
28	30	O0790	7.31	28	30	O0937	10.55	A148739	3.18	
30	32	O0791	7.41	30	32	O0938	9.42	A148741	4.81	
32	34	O0792	11.40	32	34	O0939	11.85	A148742	5.37	
34	36	O0793	12.75	34	36	O0941	8.58	A148743	8.07	
36	38	O0794	10.85	36	38	O0942	8.66	A148744	8.82	
38	40	O0795	10.40	38	40	O0943	11.70	A148745	8.91	
40	42	O0796	11.00	40	42	O0944	10.00	A148746	7.97	60m @ 9.47
42	44	O0797	12.05	42	44	O0945	9.31	A148747	14.60	
44	46	O0798	11.50	44	46	O0946	10.65	A148748	13.25	
46	48	O0799	11.90	46	48	O0948	8.27	A148749	13.00	
48	50	O0901	12.65	48	50	O0949	7.77	A148750	14.85	
50	52	O0902	11.65	50	52	O0950	8.85	A148751	14.30	
52	54	O0903	12.05	52	54	O0951	10.70	A148752	13.40	
54	56	O0904	8.05	54	56	O0952	5.82	A148753	8.76	
56	58	O0905	10.30	56	58	O0953	4.15	A148754	8.24	
58	60	O0906	10.40	58	60	O0954	10.85	A148755	8.71	
60	62	O0907	11.40	60	62	O0955	9.54	A148756	9.06	
62	64	O0908	13.30	62	64	O0956	11.20	A148757	7.99	
64	66	O0909	10.55	64	66	O0957	5.65	A148758	9.18	
66	68	O0910	11.40	66	68	O0958	4.06	A148759	14.75	
68	70	O0911	10.70	68	70	O0959	7.54	A148761	11.80	
70	72	O0912	11.00	70	72	O0961	2.51			
72	74	O0913	9.42	72	74	O0962	0.38			
74	76	O0914	9.16	74	76	O0963	0.16			
76	78	O0915	6.40	76	78	O0964	0.29			
78	80	O0916	5.57	78	79	O0965	0.30			
80	82	O0917	9.14							
82	84	O0918	8.42							
84	86	O0919	8.51							
86	88	O0921	10.4							
88	90	O0922	1.97							

Hole_ID	Project	Prospect	Lease_ID	Easting_WGS84	Northing_WGS84	Elevation	WGS84_Grid	Collar_Dip	Collar_Azimuth	EOH_Depth
RC41	Mahenge	Cascades	PL 7802/2012	245300	9041857	887	WGS84Z37S	-57	270	94
RC42	Mahenge	Cascades	PL 7802/2012	245259	9041849	886	WGS84Z37S	-71	270	79

JORC Code, 2012 Edition – Table 1 report template

Section 1 Sampling Techniques and Data

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

Criteria	JORC Code explanation	Commentary
Sampling techniques	<ul style="list-style-type: none"> Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling. Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used. Aspects of the determination of mineralisation that are Material to the Public Report. In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information. 	<ul style="list-style-type: none"> Rock chip samples taken from outcrop or from surface float thought to be derived from shallow buried cover within 15m radius Pit samples are excavated to in-situ basement rock where possible. If the pit did not reach basement and sampled cover/float/scree, then this is noted in the sample log. Trench samples were taken at 1-3m intervals along the floor of the trench Trenches range in depth from 1.0m to 2.5 with an average depth of 1.8m. Trenches have an average width of 1m Surface rockchip and trench samples range between 0.5kg and 2.5kg in weight The Company has taken all care to ensure no material containing additional carbon has contaminated the samples All samples are individually labeled and logged Drill sampling consisted of quarter core sampling of diamond core on a 2m sample interval. RC samples were riffle split on an individual 1m interval then composited as two x 1m samples per sample submitted to the laboratory.
Drilling techniques	<ul style="list-style-type: none"> Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg 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). 	<ul style="list-style-type: none"> Both diamond core (HQ double tube) and reverse circulation (5" face sampling) drilling methods have been used
Drill sample recovery	<ul style="list-style-type: none"> Method of recording and assessing core and chip sample recoveries and results assessed. Measures taken to maximise sample recovery and ensure representative nature of the samples. Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material. 	<ul style="list-style-type: none"> Drill sample recoveries have been measured for all holes and found to be good
Logging	<ul style="list-style-type: none"> Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies. Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography. The total length and percentage of the relevant intersections logged. Drill logging of diamond core and RC 	<ul style="list-style-type: none"> Surface rockchip samples were described in basic terms – lithology, degree of weathering, flake size and an estimate of grade Trench rockchip samples were described in basic terms – lithology, degree of weathering, flake size and an estimate of grade in 1m intervals All drill holes have been comprehensively logged for lithology, mineralisation, recoveries, orientation, structure and RQD (core). All drill holes have been

Criteria	JORC Code explanation	Commentary
		photographed. Sawn diamond core has been retained for a record in core trays. RC chips stored in both chip trays and 1-3kg individual metre samples as a record.
<i>Sub-sampling techniques and sample preparation</i>	<ul style="list-style-type: none"> • If core, whether cut or sawn and whether quarter, half or all core taken. • If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry. • For all sample types, the nature, quality and appropriateness of the sample preparation technique. • Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples. • 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. • Whether sample sizes are appropriate to the grain size of the material being sampled. 	<ul style="list-style-type: none"> • The surface rockchip samples have not undergone any field splitting or composition • Trench samples were taken in 1m intervals with sampling techniques used to ensure representivity of the target rocktype. • No splitting or compositing of the trench samples was undertaken • Diamond core samples were halved with one half then quartered. A quarter core sample was taken for laboratory analysis. The remaining quarter core sample is retained for a record and a half core sample retained for metallurgical testwork. • RC samples were collected for every down-hole metre in a separate RC bag. Each metre sample was split through a three-tier riffle splitter and a 1.5kg sample taken of each meter. Two one-metre samples, totaling 3kg in weight were composited for assay submission.
<i>Quality of assay data and laboratory tests</i>	<ul style="list-style-type: none"> • The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total. • For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc. • Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established. 	<ul style="list-style-type: none"> • The samples were sent to Mwanza in Tanzania for preparation and pulps were then sent to Brisbane for TGC analysis for Total Graphitic Carbon (TGC) C-IR18 LECO Total Carbon. • Graphitic C is determined by digesting sample in 50% HCl to evolve carbonate as CO₂. Residue is filtered, washed, dried and then roasted at 425C. The roasted residue is analysed for carbon by high temperature Leco furnace with infra red detection. Method Precision: ± 15% Reporting Limit: 0.02 - 100ppm • Some of the surface rockchip samples were analysed for Multi-elements using ME-ICP81 sodium peroxide fusion and dissolution with elements determined by ICP. • Some of the surface rockchip samples were analysed for Multi-elements using ME-MS61 for 48 elements using a HF-HNO₃-HClO₄ acid digestion, HCl leach followed by ICP-AES and ICP-MS analysis. • Some of the surface rockchip samples were analysed for Multi-elements using ME-MS81 using lithium borate fusion and ICP-MS determination for 38 elements. • All analysis has been carried out by certified laboratory – ALSchemex. TGC is the most appropriate method to analyse for graphitic carbon and it is total analysis. ALSchemex inserted its own standards and blanks and completed its own QAQC for each batch of samples • BKT inserted certified standard material at a rate of 5%. BKT inserted a field duplicate at a rate of 5% • BKT is satisfied the TGC results are accurate and precise
<i>Verification of sampling and assaying</i>	<ul style="list-style-type: none"> • The verification of significant intersections by either independent or alternative company personnel. • The use of twinned holes. 	<ul style="list-style-type: none"> • The data has been manually updated into a master spreadsheet which is considered to be appropriate for this early stage in the exploration program •

Criteria	JORC Code explanation	Commentary
	<ul style="list-style-type: none"> Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. Discuss any adjustment to assay data. 	
Location of data points	<ul style="list-style-type: none"> Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation. Specification of the grid system used. Quality and adequacy of topographic control. 	<ul style="list-style-type: none"> A handheld GPS was used to identify the positions of the pits in the field The handheld GPS has an accuracy of +/- 5m The datum is used is ARC 1960 UTM zone 37
Data spacing and distribution	<ul style="list-style-type: none"> Data spacing for reporting of Exploration Results. Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied. Whether sample compositing has been applied. 	<ul style="list-style-type: none"> The trenches were excavated from the general lode of graphite mineralization outlined by first pass mapping No sample compositing has been applied. The project is considered too early stage for Resource Estimation
Orientation of data in relation to geological structure	<ul style="list-style-type: none"> Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material. 	<ul style="list-style-type: none"> Trenches were designed to sample across a section of the known strike of the mineralization where the cover was not too deep Trench samples was undertaken in general in a direction across the strike of the graphite schist apart from TREPM01 which was sub-parallel to the strike of the schist The representivity of the surface rock chip samples cannot be assessed given the lack of continuous outcrop in these areas. These samples are only indicative results of the local geology and no claim to the volume or extent of this sample material is made Additional sampling and mapping is required to fully understand the mineralization and its grades in relation to controlling structures
Sample security	<ul style="list-style-type: none"> The measures taken to ensure sample security. 	<ul style="list-style-type: none"> The rockchip and trench samples were taken under the supervision of an experienced geologist employed as a consultant to BKT The samples were transferred under BKT supervision from site to the local town of Mahenge The samples were then transported from Mahenge to Dar es Salaam and then transported to Mwanza where they were inspected and then delivered directly to ALSChemex process facility. Chain of custody protocols were observed to ensure the samples were not tampered with post sampling and until delivery to the laboratory for preparation and analysis Transport of the pulps from Tanzania to Australia was under the supervision of ALSChemex
Audits or reviews	<ul style="list-style-type: none"> The results of any audits or reviews of sampling techniques and data. 	<ul style="list-style-type: none"> Trenching and drilling information collected by BKT has been evaluated for sampling techniques, appropriateness of methods and data accuracy by an external geological consultant.

Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code explanation	Commentary
<i>Mineral tenement and land tenure status</i>	<ul style="list-style-type: none"> Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings. The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area. 	<ul style="list-style-type: none"> The rock chip and trench sampling was undertaken on granted license PL 7802/2012 It has an area of 293km² The license is 100% owned by BKT Subsistent landowners of the affected villages were supportive of the recently completed sampling and exploration program.
<i>Exploration done by other parties</i>	<ul style="list-style-type: none"> Acknowledgment and appraisal of exploration by other parties. 	<ul style="list-style-type: none"> Some previous explorers completed some limited RC drilling and rockchip sampling but the original data has not been located apart from what has been announced via ASX release by Kibaran Resources during 2011 and 2013
<i>Drill hole Information</i>	<ul style="list-style-type: none"> 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 style="list-style-type: none"> easting and northing of the drill hole collar elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar dip and azimuth of the hole down hole length and interception depth hole length. 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. 	<ul style="list-style-type: none"> All drill hole information has been retained and compiled into a drilling database. At this early stage of exploration only the assay data has been released together with hole length, a plan locality map of drill holes and down hole intervals.
<i>Data aggregation methods</i>	<ul style="list-style-type: none"> 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. Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail. The assumptions used for any reporting of metal equivalent values should be clearly stated. 	<ul style="list-style-type: none"> No data aggregation methods have been carried out on the data.
<i>Relationship between mineralisation widths and intercept lengths</i>	<ul style="list-style-type: none"> These relationships are particularly important in the reporting of Exploration Results. If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known'). 	<ul style="list-style-type: none"> Due to the potentially large strike length of the mineralization the trench sampling program has been selective and trench sampling has only assessed the local grade distribution of the graphitic zones from surface to shallow depths <2.5m). The trenches were located between 500 and 1000m along strike depending on the thickness of the surface cover Further additional widespread surface sampling, mapping and drilling is required to understand the geometry of the graphite mineralisation

Criteria	JORC Code explanation	Commentary
<i>Diagrams</i>	<ul style="list-style-type: none"> • <i>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.</i> 	<ul style="list-style-type: none"> • Figures show plan location of trenches and drill holes, appropriately scaled and referenced.
<i>Balanced reporting</i>	<ul style="list-style-type: none"> • <i>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.</i> 	<ul style="list-style-type: none"> • All surface and trench rock chip samples have been reported. • All drilling results have been reported for graphite
<i>Other substantive exploration data</i>	<ul style="list-style-type: none"> • <i>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.</i> 	<ul style="list-style-type: none"> • 1 in 10 samples from the drill programme were assayed for deleterious elements using a 40 element ICP method. No deleterious elements were observed, with background levels of uranium and thorium.
<i>Further work</i>	<ul style="list-style-type: none"> • <i>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).</i> • <i>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</i> 	<ul style="list-style-type: none"> • Further surface sampling techniques that may include pitting & trenching with mapping and drilling (diamond core and RC). Continuation of infill and extensional drill programme at Epanko north. • Initial metallurgical testwork – flotation and particle sizing • Data compilation and analysis, target generation and ranking prior to drilling.