



## VERY WIDE ZONES OF HIGH GRADE, SAPROLITE-HOSTED GRAPHITE FROM MALINGUNDE

Sovereign Metals Limited (“the Company” or “Sovereign”) is pleased to report the second batch of assay results from the 2017 aircore drilling program completed at the Malingunde saprolite-hosted flake graphite deposit in Malawi.

Aircore drilling was conducted in late 2017, with 210 holes for 6,212 metres completed. The drilling program was designed to further define and upgrade the JORC resource classification levels for inclusion in the Malingunde Pre-feasibility Study, as well as to test graphite mineralisation at Malingunde South Extension Zone and other targets.

The results for a further 68 holes show very wide and high-grade zones of saprolite-hosted flake graphite mineralisation with excellent consistency along strike, as well as substantial vertical thicknesses. The Company expects an updated JORC resource estimate will be delivered in Q2 2018.

### HIGHLIGHTS:

- ◆ Assays for the second batch of aircore samples (68 of 210 holes, with 36 previously reported) have been received. These holes focused on infilling the central and northern zones of the resource at Malingunde.
- ◆ Results show very wide and high-grade zones of saprolite-hosted flake graphite mineralisation with excellent consistency along strike, as well as substantial vertical thicknesses.
- ◆ Results include:
  - **MGAC0240: 16m @ 14.7% TGC inc. 5m @ 26.9% TGC**
  - **MGAC0241: 17m @ 16.0% TGC inc. 10m @ 21.5% TGC**
  - **MGAC0268: 14m @ 14.6% TGC inc. 6m @ 20.7% TGC**
  - **MGAC0281: 18m @ 19.3% TGC inc. 8m @ 24.8% TGC**
  - **MGAC0290: 15m @ 14.7% TGC inc. 8m @ 19.4% TGC**
- ◆ Results for the 106 remaining aircore holes, from the central and northern parts of the Main Zone, as well as from the new discovery at the South Extension Zone, are expected to be delivered over the coming weeks, and will be provided to the market when received.

*Sovereign’s Managing Director Dr Julian Stephens commented, “These results continue to show very wide, high-grade saprolite-hosted graphite mineralisation with up to ~200m cumulative surface width. The infill drilling has also highlighted excellent continuity of a number of very high-grade zones circa 12% to 20% TGC. The combination of grade, flake size and the soft nature of the host saprolite create a fantastic platform to develop a low cost, high margin graphite operation.”*

### ENQUIRIES

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**Infill Aircore Drilling Results**

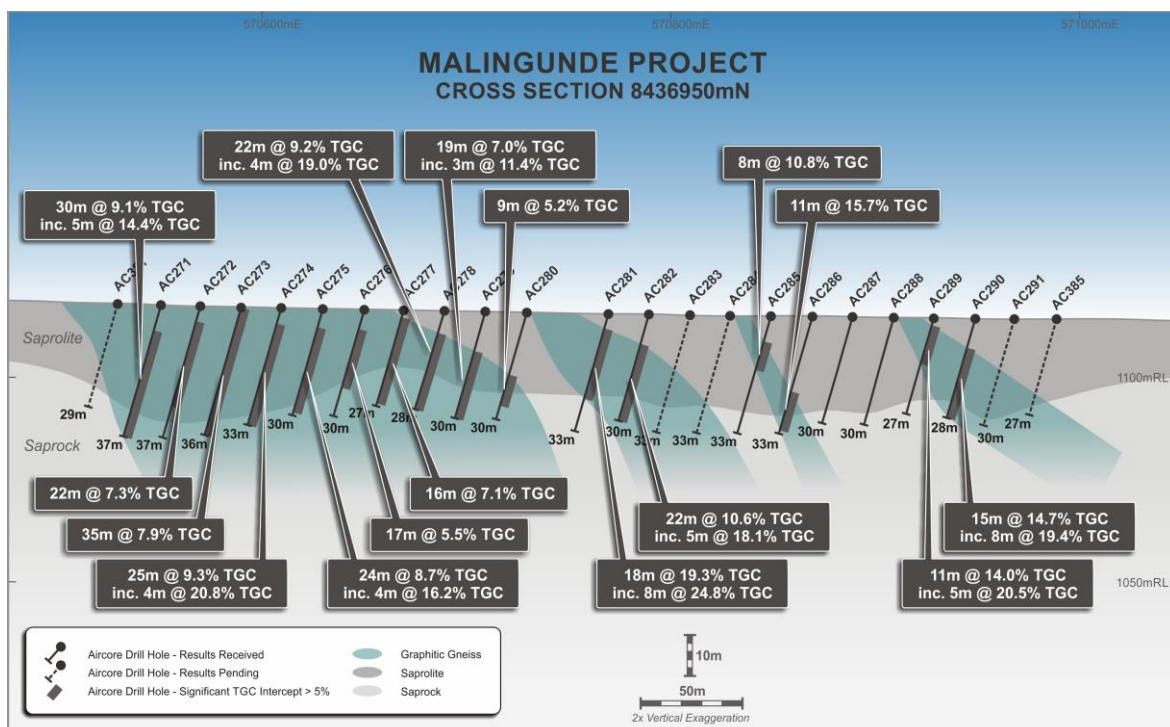
The 2017 infill drilling program comprised 210 aircore holes for 6,212 metres of drilling. Results for the first 36 aircore holes were reported on 17<sup>th</sup> January 2018, with results received for a further 68 holes from the southern and central zones of the main deposit. Assays for a further 106 holes are expected over the coming weeks.

The latest results show very wide (up to 200m cumulative surface widths) and high-grade zones of saprolite-hosted flake graphite mineralisation with excellent consistency along strike, as well as substantial vertical thicknesses averaging 20-25m. Additionally, the infill drilling has highlighted good continuity of a number of very high-grade zones circa 12% to 20% TGC. The Company expects an updated JORC resource estimate incorporating the new drilling results will be delivered in Q2 2018.

Selected results from the 68 aircore holes reported are listed below, with full results listed in Table B.

- **MGAC0233:** 26m @ 12.2% TGC inc. 7m @ 21.0% TGC
- **MGAC0236:** 21m @ 12.7% TGC inc. 12m @ 15.4% TGC
- **MGAC0240\*:** 16m @ 14.7% TGC inc. 5m @ 26.9% TGC
- **MGAC0241\*:** 17m @ 16.0% TGC inc. 10m @ 21.5% TGC
- **MGAC0246:** 18m @ 11.2% TGC inc. 7m @ 16.2% TGC
- **MGAC0254:** 28m @ 10.5% TGC inc. 9m @ 15.3% TGC
- **MGAC0268\*:** 14m @ 14.6% TGC inc. 6m @ 20.7% TGC
- **MGAC0281\*:** 18m @ 19.3% TGC inc. 8m @ 24.8% TGC
- **MGAC0282:** 22m @ 10.6% TGC inc. 5m @ 18.1% TGC
- **MGAC0290\*:** 15m @ 14.7% TGC inc. 8m @ 19.4% TGC

\*denotes results that are also reported in highlights on front page



**Figure 1. Infill cross-section showing high-grade, saprolite-hosted graphite mineralisation.**

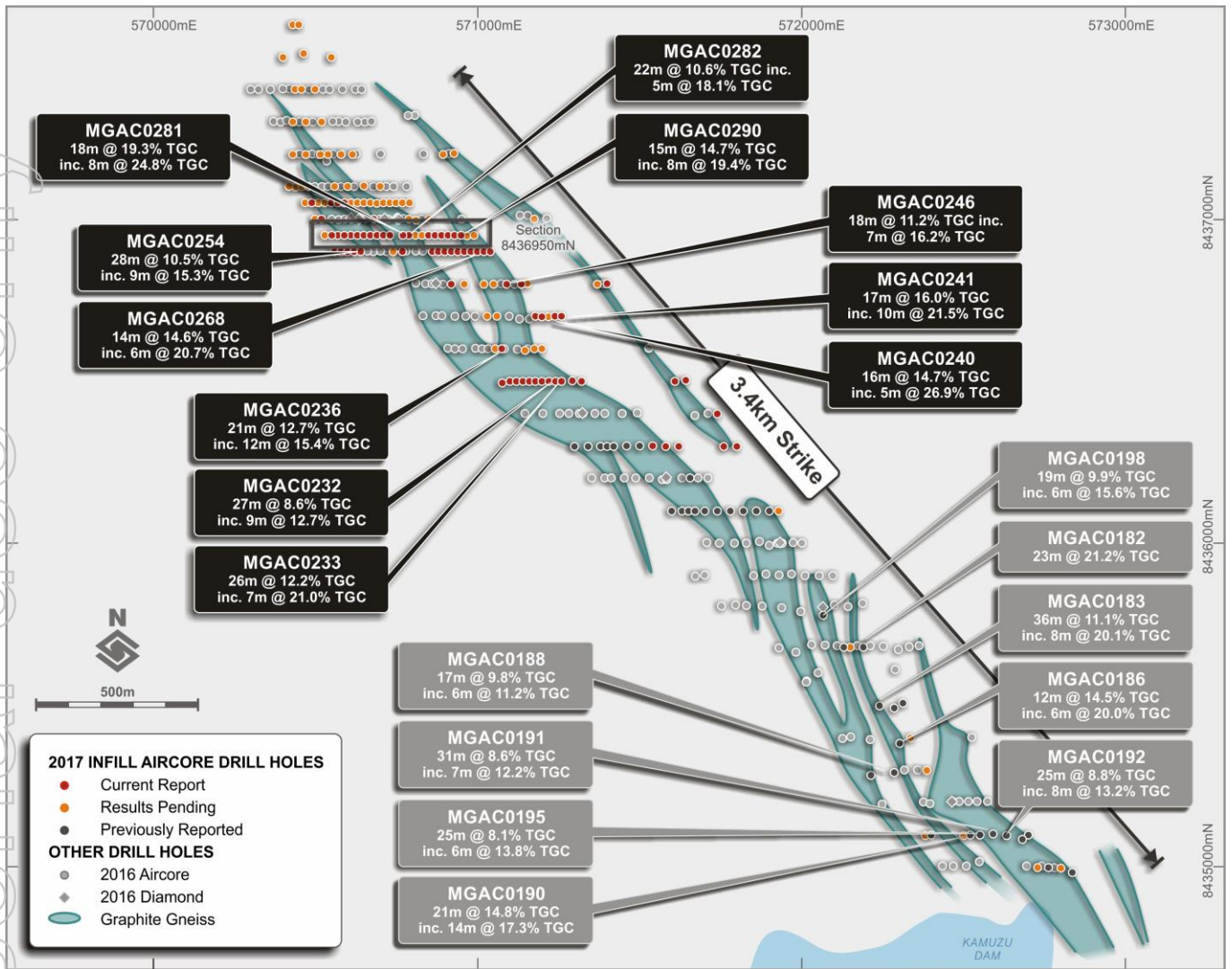


Figure 2. Map showing selected, recently received drilling results over mineralised zones at Malingunde.

## **Competent Person Statement**

*The information in this report that relates to Exploration Results is based on information compiled by Dr Julian Stephens, a Competent Person who is a member of the Australian Institute of Geoscientists (AIG). Dr Stephens is the Managing Director of Sovereign Metals Limited and a holder of shares, options and performance rights in Sovereign Metals Limited. Dr Stephens has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken, to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Dr Stephens consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.*

*The information in this announcement that relates to previous Exploration Results is extracted from announcements 18 January 2017, 21 February 2017, 15 March 2017 and 17 January 2018. These announcements are available to view on [www.sovereignmetals.com.au](http://www.sovereignmetals.com.au). The information in the original announcements that related to Exploration Results were based on, and fairly represents, information compiled by Dr Julian Stephens, a Competent Person who is a member of the Australasian Institute of Geoscientists (AIG). Dr Stephens has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken, to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.*

## **Forward Looking Statement**

*This release may include forward-looking statements, which may be identified by words such as "expects", "anticipates", "believes", "projects", "plans", and similar expressions. These forward-looking statements are based on Sovereign's expectations and beliefs concerning future events. Forward looking statements are necessarily subject to risks, uncertainties and other factors, many of which are outside the control of Sovereign, which could cause actual results to differ materially from such statements. There can be no assurance that forward-looking statements will prove to be correct. Sovereign makes no undertaking to subsequently update or revise the forward-looking statements made in this release, to reflect the circumstances or events after the date of that release.*



## Appendix 1

Table A. Aircore drill-hole details

Hole ID	Easting UTM	Northing UTM	RL (m)	Total depth (m)	Dip	Azimuth (UTM)	Hole Type
MGAC0217	571540	8436300	1138	33	-60	270	Aircore
MGAC0218	571580	8436300	1138	33	-60	270	Aircore
MGAC0219	571620	8436300	1138	35	-60	270	Aircore
MGAC0220	571759	8436300	1139	39	-60	270	Aircore
MGAC0221	571800	8436300	1139	36	-60	270	Aircore
MGAC0222	571740	8436400	1141	33	-60	270	Aircore
MGAC0223	571642	8436503	1142	27	-60	270	Aircore
MGAC0224	571610	8436500	1142	31	-60	270	Aircore
MGAC0225	571099	8436500	1144	28	-60	270	Aircore
MGAC0226	571120	8436500	1143	25	-60	270	Aircore
MGAC0227	571139	8436500	1143	28	-60	270	Aircore
MGAC0228	571160	8436500	1143	30	-60	270	Aircore
MGAC0229	571179	8436500	1142	30	-60	270	Aircore
MGAC0230	571200	8436500	1142	27	-60	270	Aircore
MGAC0231	571220	8436500	1142	30	-60	270	Aircore
MGAC0232	571240	8436500	1141	30	-60	270	Aircore
MGAC0233	571260	8436500	1141	30	-60	270	Aircore
MGAC0234	571292	8436502	1141	31	-60	270	Aircore
MGAC0235	571320	8436501	1141	33	-60	270	Aircore
MGAC0236	571075	8436600	1144	35	-60	270	Aircore
MGAC0240	571239	8436700	1143	33	-60	270	Aircore
MGAC0241	571259	8436700	1143	34	-60	270	Aircore
MGAC0242	570920	8436800	1145	32	-60	270	Aircore
MGAC0246	571090	8436800	1143	36	-60	270	Aircore
MGAC0247	571135	8436800	1143	33	-60	270	Aircore
MGAC0248	571401	8436801	1143	27	-60	270	Aircore
MGAC0249	571077	8436494	1144	26	-60	270	Aircore
MGAC0250	570560	8436900	1146	29	-60	270	Aircore
MGAC0251	570580	8436900	1146	32	-60	270	Aircore
MGAC0252	570600	8436900	1146	31	-60	270	Aircore
MGAC0253	570620	8436900	1146	32	-60	270	Aircore
MGAC0254	570640	8436900	1145	33	-60	270	Aircore
MGAC0258	571179	8436700	1143	28	-60	270	Aircore
MGAC0259	571200	8436700	1143	33	-60	270	Aircore
MGAC0260	570769	8436900	1144	31	-60	270	Aircore
MGAC0261	570861	8436901	1144	34	-60	270	Aircore
MGAC0262	570880	8436900	1143	30	-60	270	Aircore
MGAC0263	570900	8436900	1143	29	-60	270	Aircore

Hole ID	Easting UTM	Northing UTM	RL (m)	Total depth (m)	Dip	Azimuth (UTM)	Hole Type
MGAC0264	570920	8436900	1143	27	-60	270	Aircore
MGAC0265	570940	8436900	1143	28	-60	270	Aircore
MGAC0266	570959	8436900	1143	27	-60	270	Aircore
MGAC0267	570980	8436900	1143	28	-60	270	Aircore
MGAC0268	570999	8436900	1143	27	-60	270	Aircore
MGAC0269	571019	8436900	1143	26	-60	270	Aircore
MGAC0270	571039	8436900	1143	29	-60	270	Aircore
MGAC0271	570551	8436950	1145	37	-60	270	Aircore
MGAC0272	570570	8436950	1145	37	-60	270	Aircore
MGAC0273	570590	8436950	1145	36	-60	270	Aircore
MGAC0274	570610	8436950	1145	33	-60	270	Aircore
MGAC0275	570630	8436950	1144	30	-60	270	Aircore
MGAC0276	570650	8436950	1144	30	-60	270	Aircore
MGAC0277	570670	8436950	1144	27	-60	270	Aircore
MGAC0278	570689	8436950	1144	28	-60	270	Aircore
MGAC0279	570710	8436950	1144	30	-60	270	Aircore
MGAC0280	570730	8436950	1144	30	-60	270	Aircore
MGAC0281	570770	8436950	1143	33	-60	270	Aircore
MGAC0282	570790	8436950	1143	30	-60	270	Aircore
MGAC0285	570849	8436950	1143	33	-60	270	Aircore
MGAC0286	570870	8436950	1143	33	-60	270	Aircore
MGAC0287	570889	8436950	1143	30	-60	270	Aircore
MGAC0288	570910	8436950	1142	30	-60	270	Aircore
MGAC0289	570929	8436950	1142	27	-60	270	Aircore
MGAC0290	570949	8436950	1142	28	-60	270	Aircore
MGAC0292	570519	8437000	1145	28	-60	270	Aircore
MGAC0293	570680	8437000	1143	33	-60	270	Aircore
MGAC0294	570490	8437050	1144	30	-60	270	Aircore
MGAC0300	570550	8437050	1144	34	-60	270	Aircore
MGAC0301	570570	8437050	1143	32	-60	270	Aircore
MGAC0302	570590	8437050	1143	30	-60	270	Aircore

Table B. Aircore drilling significant intercepts ( $\geq 5.0\%$  TGC)

Hole ID	From (m)	To (m)	Width (m)	TGC (%)	Base of Saprolite (m) down-hole
MGAC0217 inc	6	21	15	8.3	*
	15	21	6	10.1	*
MGAC0218	5	33	28	6.9	28
MGAC0219	8	14	6	7.0	*
MGAC0220	NSI				
MGAC0221	12	15	3	5.8	*
MGAC0222	16	33	17	6.2	29
MGAC0223	NSI				
MGAC0224	NSI				
MGAC0225	4	27	23	6.5	23
MGAC0226	7	25	18	6.8	20
MGAC0227 and	3	8	5	9.1	*
	14	22	8	6.3	*
MGAC0228	17	24	7	5.7	*
MGAC0229 and	8	18	10	7.2	*
	27	30	3	7.8	25
MGAC0230	11	15	4	6.6	*
MGAC0231 inc	6	21	15	7.4	*
	9	13	4	12.0	*
MGAC0232 inc	3	30	27	8.6	23
	17	26	9	12.7	23
MGAC0233 inc	4	30	26	12.2	26
	23	30	7	21.0	26
MGAC0234	26	31	5	8.7	28
MGAC0235 and	7	14	7	7.4	*
	27	30	3	5.5	28
MGAC0236 inc	13	34	21	12.7	28
	20	32	12	15.4	28
MGAC0240 inc	14	30	16	14.7	28
	23	28	5	26.9	*
MGAC0241 inc	17	34	17	16.0	27
	21	31	10	21.5	27
MGAC0242	9	32	23	6.5	28
MGAC0246 and inc	5	9	4	8.2	*
	18	36	18	11.2	33
	26	33	7	16.2	*
MGAC0247 inc	6	31	25	7.3	29
	27	31	4	15.3	29

Hole ID	From (m)	To (m)	Width (m)	TGC (%)	Base of Saprolite (m) down-hole
MGAC0248	17	21	4	5.0	*
MGAC0249	3	24	21	6.3	23
MGAC0250	7	18	11	8.9	*
MGAC0251	12	28	16	7.5	*
MGAC0252 and	7	11	4	9.3	*
	17	31	14	7.2	27
MGAC0253 inc	7	32	25	9.6	29
	21	27	6	13.1	*
MGAC0254 inc	5	33	28	10.5	29
	22	31	9	15.3	29
MGAC0258	17	25	8	9.1	*
MGAC0259 and	3	6	3	23.2	*
	27	33	6	11.4	28
MGAC0260	8	27	19	7.9	*
MGAC0261	27	33	6	6.7	31
MGAC0262	NSI				
MGAC0263	NSI				
MGAC0264	NSI				
MGAC0265	12	17	5	6.9	*
MGAC0266 inc	5	26	21	6.5	19
	13	17	4	9.6	*
MGAC0267 inc	5	27	22	9.8	18
	5	12	7	15.9	*
MGAC0268 inc	13	27	14	14.6	17
	17	23	6	20.7	17
MGAC0269	15	19	4	6.6	*
MGAC0270	NSI				
MGAC0271 inc	7	37	30	9.1	30
	25	30	5	14.4	*
MGAC0272	6	28	22	7.3	*
MGAC0273	1	36	35	7.9	32
MGAC0274 inc	4	29	25	9.3	*
	4	8	4	20.8	*
MGAC0275 inc	5	29	24	8.7	27
	5	9	4	16.2	*
MGAC0276	5	22	17	5.5	20
MGAC0277	2	18	16	7.1	16
MGAC0278 inc	6	28	22	9.2	17
	8	12	4	19.0	*



Hole ID	From (m)	To (m)	Width (m)	TGC (%)	Base of Saprolite (m) down-hole
MGAC0279 inc	11	30	19	7.0	22
	19	22	3	11.4	*
MGAC0280	17	26	9	5.2	22
MGAC0281 inc	6	24	18	19.3	23
	15	23	8	24.8	*
MGAC0282 inc	8	30	22	10.6	23
	25	30	5	18.1	23
MGAC0285	7	15	8	10.8	*
MGAC0286	21	32	11	15.7	28
MGAC0287	NSI				
MGAC0288	NSI				
MGAC0289 inc	2	13	11	14.0	*
	5	10	5	20.5	*
MGAC0290 inc	8	23	15	14.7	*
	10	18	8	19.4	*
MGAC0292 inc	3	28	25	9.8	25
	16	23	7	15.0	*
MGAC0293	17	33	16	9.5	27
MGAC0294	6	26	20	8.5	*
MGAC0300 inc	5	32	27	9.8	28
	10	16	6	17.1	*
MGAC0301 inc	2	32	30	8.5	26
	4	8	4	19.6	*
MGAC0302 inc	4	30	26	9.9	26
	13	23	10	15.1	*

\* intercept terminates above base of saprolite

Appendix 2: JORC Code, 2012 Edition – Table 1

Section 1 Sampling Techniques and Data

Criteria	JORC Code explanation	Commentary
Sampling Techniques	<i>Nature and quality of sampling (e.g. cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc.). These examples should not be taken as limiting the broad meaning of sampling.</i>	The aircore drilling method was employed to obtain bulk drill cuttings at nominal 1-metre (downhole) intervals from surface. All 1-metre samples were collected in plastic bags directly beneath the drilling rig cyclone underflow. The entire 1-metre sample was manually split using either a 3-tier (87.5:12.5 split) or single tier (50:50 split) riffle splitter or a combination thereof to facilitate the mass reduction of a laboratory assay split. Compositing of the laboratory sample split was performed on a geological basis. Mineralised (>=3% v/v visual) laboratory splits of 1-metre intervals from surface to the top of the saprolite zone were not composited whereas mineralised splits of the underlying saprolite and saprock intervals were composited nominally at 2-metres. Unmineralised (<=3% v/v visual), laboratory splits of 4-metre intervals from top of hole to bottom of hole were composited. Laboratory splits were submitted Intertek Perth for assay sample preparation. Total Graphitic Carbon (TGC) analysis of all assay pulps samples was undertaken by Intertek Perth.
	<i>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</i>	Drilling and sampling activities were supervised by a suitably qualified Company geologist who was present at the drill rig at all times. All bulk 1-metre drill samples were geologically logged by the geologist at the drill site. All 1-metre downhole drill samples collected in plastic bags from directly beneath the cyclone underflow were individually weighed and moisture content was qualitatively logged prior to further splitting and sampling. All mass reduction (field and laboratory splitting) of samples were performed within Gy's Sampling Nomogram limits relevant to this style of mineralisation. Field duplicate splits were undertaken nominally every 20 <sup>th</sup> sample to quantify sampling and analytical error. A program of field replicate splitting of selected (~5%) mineralised intervals was completed at the conclusion of the drill program.
	<i>Aspects of the determination of mineralisation that are Material to the Public Report. In cases where 'industry standard' work has been done this would be relatively simple (e.g. 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (e.g. submarine nodules) may warrant disclosure of detailed information.</i>	Flake graphite content is visually estimated as volume % (% v/v) of each 1-metre bulk drill samples during geological logging by Company geologist. A nominal lower cut-off of 5% TGC assay has been applied to define zones of 'mineralisation'.
Drilling Techniques	<i>Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc.) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc.).</i>	Conventional blade bit aircore drilling was employed to obtain all drill cuttings from surface utilising two rigs during this drill program. Drilling with these rigs was completed using standard 4-inch diameter/3m length drill rods equipped with inner tubes. Drilling was performed with standard face discharge aircore blade bits. The nominal drill hole diameter is 107mm.
Drill Sample Recovery	<i>Method of recording and assessing core and chip sample recoveries and results assessed.</i>	All 1-metre downhole drill samples collected in plastic bags from directly beneath the cyclone underflow were individually weighed and moisture content (dry/damp/moist/wet/saturated) recorded prior to further splitting and sampling. The outside diameter of the drill bit cutting face was measured and recorded by the driller prior to the commencement of each drill hole. Each 1-metre sample interval was separately geologically logged using standard Company project specific logging codes. Logging of weathering and lithology along with drill hole diameter, recovered sample weight, moisture content and dry bulk density measurements of PQ diamond core allow the theoretical sample recovery to be calculated. Analysis of actual sample recoveries indicate an average recovery of greater than 75% for mineralised intervals.
	<i>Measures taken to maximise sample recovery and ensure representative nature of the samples.</i>	Drill bits (face discharge) used were appropriate for the type of formation to maximise amount of drill cutting recovered. Drill bits were replaced where excessive wearing of the tungsten cutting teeth had occurred. A number of the 2016 PQ diamond core holes were twinned by aircore holes to assess the representivity of drill samples.
	<i>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.</i>	Twin hole comparison of aircore vs hand auger and diamond core drill hole visually estimated grades indicates that no sample bias exists. There does not appear to be any relationship between aircore sample recovery and TGC % v/v grade.
Logging	<i>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.</i>	All drill holes were geologically logged by a suitably trained Company geologist using standard Company code system. Relevant data for each individual 1-metre sample for aircore or for each geological interval for diamond was initially recorded using a standard A4 paper template and later digitally entered into customised Company MS Excel spreadsheets designed with fully functional validation. Excel files are checked and loaded to MS Access by the Database Administrator. Upon loading into the Access database further validation is performed. In addition, all core is photographed wet and dry for future reference.  This information is of a sufficient level of detail to support appropriate Mineral Resource estimation.
	<i>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography.</i>	Logging is both qualitative and quantitative. Geological logging includes but is not limited to lithological features, volumetric visual estimates of graphite content and flake characteristics.
	<i>The total length and percentage of the relevant intersection logged</i>	100% of drill hole sample intervals have been geologically logged.

Criteria	JORC Code explanation	Commentary
<b>Sub-sampling techniques and sample preparation</b>	<i>If core, whether cut or sawn and whether quarter, half or all core taken.</i>	No core was drilled during this program
	<i>If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry.</i>	The entire 1-metre sample was manually split using either a 3-tier (87.5:12.5 split) or single tier (50:50 split) riffle splitter or a combination thereof to facilitate the mass reduction of a laboratory assay split. Compositing of the laboratory sample split was performed on a geological basis. Mineralised (>=3% v/v visual) laboratory splits of 1-metre intervals from surface to the top of the saprolite zone were not composited whereas mineralised splits of the underlying saprolite and saprock intervals were composited nominally at 2-metres. Unmineralised (<=3% v/v visual), laboratory splits of 4-metre intervals from top of hole to bottom of hole were composited. All wet samples were removed from the drill site without splitting and relocated to the Company's premises in Lilongwe. The wet samples were transferred into large metal trays and sun dried. Samples were subsequently hand pulverised and thoroughly homogenised prior to splitting 50:50 with a single tier riffle splitter. One of the off-splits was submitted to the laboratory for assay. All rejects splits (i.e. the material not sent for assaying) of each individual 1-metre interval were returned to original sample bag, cable tied and placed in storage for future reference.
	<i>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</i>	Sample preparation is conducted at either Intertek in Perth or Johannesburg. The entire submitted sample (<= ~3kg) is pulverised to 85% -75µm in a LM5. Approximately 100g pulp is collected and sent to Intertek-Genalysis Perth for chemical analysis.
	<i>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</i>	All sampling was carefully supervised. Ticket books were used with pre-numbered tickets placed in the laboratory sample bag and double checked against the sample register. Subsequent to splitting an aluminium tag inscribed with hole id/sample interval was placed inside the bulk 1-metre sample bag. Field QC procedures involve the use of certified reference material assay standards, blanks, duplicates, replicates for company QC measures, and laboratory standards, replicate assaying and barren washes for laboratory QC measures. The insertion rate of each of these averaged better than 1 in 20.
	<i>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.</i>	A program of field replicate splitting of selected (5%) mineralised intervals was completed at the conclusion of the drill program. In addition, a number of air core holes have been drilled to "twin" diamond holes, to assess the representivity of the air drilling. The results of these programs will be assessed when results are received.
<i>Whether sample sizes are appropriate to the grain size of the material being sampled.</i>	All mass reduction of aircore drill samples undertaken during field sampling and laboratory sample preparation were guided by standard sampling nomograms and fall within Gy's safety limits for the type of mineralisation sampled.	
<b>Quality of assay data and laboratory tests</b>	<i>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</i>	The assaying and laboratory procedures are considered to be appropriate for reporting graphite mineralisation, according to industry best practice. Each entire sample was pulverised to 85% -75µm. Approximately 100g pulp is collected for analysis at Intertek-Genalysis Perth. A sample of 0.2g is removed from the 100-gram pulp, first digested in HCl to remove carbon attributed to carbonate, and is then heated to 450°C to remove any organic carbon. An Eltra CS-2000 induction furnace infra-red CS analyser is then used to determine the remaining carbon which is reported as Total Graphitic Carbon (TGC) as a percentage.
	<i>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.</i>	No non-laboratory devices were used for chemical analysis.
	<i>Nature of quality control procedures adopted (e.g. standards, blanks, duplicate, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.</i>	Field QC procedures involve the use of certified reference material assay standards, blanks, duplicates and replicates for company QC measures, and laboratory standards, replicate assaying and barren washes for laboratory QC measures. The insertion rate of each of these averaged better than 1 in 20.
<b>Verification of sampling &amp; assaying</b>	<i>The verification of significant intersections by either independent or alternative company personnel.</i>	Significant mineralisation intersections were verified by alternative company personnel. An independent resource consultant conducted a site visit during December 2016 during the aircore drilling program. All drilling and sampling procedures were observed by the consultant during the site visit. These procedures remained in use for this drilling program.
	<i>The use of twinned holes.</i>	Several of the 2016 PQ diamond core holes were twinned by aircore holes to assess sampling representivity.
	<i>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</i>	All data is initially collected on paper logging sheets and codified to the Company's templates. This data was hand entered to spreadsheets and validated by Company geologists. This data was then imported to a Microsoft Access Database then validated automatically and manually. Assay data is provided as .csv files from the laboratory and loaded into the project specific drill hole database. Spot checks are made against the laboratory certificates.
	<i>Discuss any adjustment to assay data.</i>	No adjustments have been made to assay data.
<b>Location of data points</b>	<i>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.</i>	Collar points were set out using the Company's R2 Rover DGPS (accuracy 0.04m x/y), and upon completion of drilling all collars were picked-up again using the same survey tool. The accuracy of R2 Rover unit is quoted to be 0.04m x/y and 0.09m z. Down-hole surveying was undertaken on selected holes to determine drill hole deviation. Surveys were carried out using a Reflex Ez-Trak multi-shot survey tool at nominal 30m intervals down hole on selected holes was used to show that significant deviation does not occur over the relatively short length of the aircore holes. As such drill hole deviation is not considered material throughout the program.
	<i>Specification of the grid system used.</i>	WGS84 (GRS80) UTM Zone 36 South
	<i>Quality and adequacy of topographic control.</i>	The Company's DGPS survey tool has sub 0.1m accuracy in the X, Y and Z planes. This is considered sufficiently accurate for the purposes of topographic control. In addition, the Company has installed several independently surveyed control pegs and undertakes QC surveys on these points before every survey program. Given the low topographic relief of the area it is believed that this represents high quality control. Previous checking of Hand Auger holes with the Shuttle Radar Topographic Mission (SRTM) 1-arc second digital elevation data has shown that the Leica GPS System produces consistently accurate results.

Criteria	JORC Code explanation	Commentary
<b>Data spacing &amp; distribution</b>	<i>Data spacing for reporting of Exploration Results.</i>	Aircore and diamond core drill holes occur along east-west sections spaced at between 100-400m north-south between 8,434,400mN to 8,437,800mN. Spacing along drill lines generally ranges between 15m and 40m.
	<i>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.</i>	The Company's independent resource consultants completed a Mineral Resource Estimate (MRE) for Malingunde in 2017 following the completion of the 2016 drilling program. The Company expects to update the MRE for Malingunde once all results from the 2017 program have been received. Such an update may include upgrading of the JORC resource category in a number of areas of the deposit.
	<i>Whether sample compositing has been applied.</i>	No sample compositing has occurred.
<b>Orientation of data in relation to geological structure</b>	<i>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known considering the deposit type</i>	No bias attributable to orientation of sampling upgrading of results has been identified.
	<i>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.</i>	No bias attributable to orientation of sampling upgrading of results has been identified. Flake graphite mineralisation is conformable with the main primary layering of the gneissic and schistose host lithologies. Drill hole inclination of -60 degrees are generally near orthogonal to the interpreted regional dip of the host units and dominant foliation.
<b>Sample security</b>	<i>The measures taken to ensure sample security</i>	Samples are securely stored at the Company's compound in Lilongwe. Chain of custody is maintained from time of sampling in the field until sample is dispatched to the laboratory.
<b>Audits or reviews</b>	<i>The results of any audits or reviews of sampling techniques and data</i>	It is considered by the Company that industry best practice methods have been employed at all stages of the exploration.

Section 2 Reporting of Exploration Results

Criteria	JORC Code explanation	Commentary
<b>Mineral tenement &amp; land tenure status</b>	<i>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 environment settings.</i>	The Company owns 100% of 3 Exclusive Prospecting Licences (EPLs) in Malawi. EPL0355 renewed in 2017 for 2 years, EPL0372 renewed in 2016 for 2 years and EPL0413 renewed in 2017 for 2 years. EPLs 0372 and 0413 are renewable for two additional periods of 2 years each upon expiry. EPL0355 is renewable at ministerial discretion.
	<i>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.</i>	The tenements are in good standing and no known impediments to exploration or mining exist.
<b>Exploration done by other parties</b>	<i>Acknowledgement and appraisal of exploration by other parties.</i>	No other parties were involved in exploration.
<b>Geology</b>	<i>Deposit type, geological setting and style of mineralisation</i>	The graphite mineralisation occurs as multiple bands of graphite gneisses, hosted within a broader Proterozoic paragneiss package. In the Malingunde and Lifidzi areas specifically, a deep tropical weathering profile is preserved, resulting in significant vertical thicknesses from near surface of saprolite-hosted graphite mineralisation.
<b>Drill hole information</b>	<i>A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes: easting and northings 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; and hole length</i>	Refer to Tables A and B in Appendix.
	<i>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</i>	Not applicable, no information has been excluded.
<b>Data aggregation methods</b>	<i>In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high-grades) and cut-off grades are usually Material and should be stated.</i>	All sample assays contribute to significant intercepts, while adhering to a minimum total significant intercept grade of >=5%. For simplification of reporting following positive metallurgical results in the treatment of pedolith material, all material above the saprolite-saprock boundary is considered as saprolite during generation of significant intercepts.
	<i>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.</i>	Significant intercepts were calculated using an outer (edge) sample lower cut-off grade of >=5% TGC, minimum intercept width of 3m, and a maximum of 6m internal dilution where the final intercept averages >=5% TGC. Substantial higher grade zones are reported as separate "including" intercepts within Table B.
	<i>The assumptions used for any reporting of metal equivalent values should be clearly stated.</i>	No metal equivalent values are used in this report.

Criteria	JORC Code explanation	Commentary
<b>Relationship between mineralisation widths &amp; intercept lengths</b>	<i>These relationships are particularly important in the reporting of Exploration Results.</i>	Preliminary interpretation of mineralised zones in aircore holes supported by DD (2016) orientated core measurements suggests that mineralised zones are shallow-moderate east dipping.
	<i>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</i>	Flake graphite mineralisation is conformable with the main primary layering of the gneissic and schistose host lithologies. Drill hole inclination of -60 degrees are generally near orthogonal to the regional dip of the host units and dominant foliation and hence specific drill hole intercepts for -60 degree holes may only approximate true width. The averaged strike of mineralised zones is approximately 160° grid whereas all -60 inclined aircore holes were orientated at grid east.
	<i>If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known').</i>	Not Applicable, refer to explanation directly above.
<b>Diagrams</b>	<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 the drill collar locations and appropriate sectional views.</i>	See Figures 1 and 2 within the main text of this report.
<b>Balanced reporting</b>	<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>	Representative reporting of low and high-grades has been effected within this report.
<b>Other substantive exploration data</b>	<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>	No additional meaningful and material exploration data has been excluded from this report that has not previously been reported to the ASX.
<b>Further work</b>	<i>The nature and scale of planned further work (e.g. test for lateral extensions or depth extensions or large-scale step-out drilling).</i>	The next phase of exploration is to complete aircore drilling on regional saprolite targets identified through hand auger drilling.
	<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>	See Figure 2 within the main text of this report.

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