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Arc Minerals Limited
14 November 2024

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Arc Minerals Ltd

('Arc' or the 'Company')

Drilling Results Confirm Copper Mineralisation

Arc Minerals (LSE: ARCM), an exploration company forging partnerships to discover and develop Tier 1 copper deposits, is pleased to announce results from the recently completed drilling programme at its PL135/2017 license that forms part of its Virgo Project within the highly prospective Central Structural Corridor of the Kalahari Copper Belt ('KCB') in the Republic of Botswana.

Highlights

- **First phase drill programme completed with a total of 3,000m drilled**
- **Copper-Silver Mineralisation Intersected**
- **Diamond drill hole ALV-DD-004 - 3m @ 1.29% CuEq within a broader 6m @ 0.82% CuEq**
- **Geological, Stratigraphic and Structural setting similar to MMG's Zone 5**

Nick von Schirnding, Executive Chairman of Arc Minerals, commented:

"I am very pleased to report that assay results from the first phase of drilling at our Botswana project identified good copper mineralisation and similar geological settings to neighbouring MMG's Zone 5. These results confirm our view that we have economic grades of copper mineralisation especially in the context of increasing interest by majors in our license. We will continue our drill programme to target the inner copper zone, presenting what we believe to be a further 5km strike along which to drill."

Background

The initial aim for the first phase drill campaign was to test for extensions of the mineralisation intersected by MMG in their adjacent license, where 4.3m @ 1.65% CuEq and 6.10m @ 2.56% CuEq were reported in holes HA-1393-D and HA-1394-D (see Figure 1 and Appendix A.).

The Company completed eight holes for 3,000m drilled with diamond drill hole ALV-DD-004 intersecting 3m @1.29% CuEq within a broader 6m @ 0.82% CuEq. Six of the remaining seven holes drilled intersected elevated to anomalous copper mineralisation with initial observations of the core displaying similar geological, stratigraphic and structural settings to that of MMG's operating Zone 5 underground mine.

Further review of the assay data and drill core suggests that the first phase drill programme intersected mineralisation laterally on the fringe of the copper zone, in the iron rich zone, the interpreted outer halo of the main mineralised zone.

All the data is currently being assessed and planning put in place for a second phase drill programme, that will vector away from the iron rich zone, targeting the interpreted inner copper sulphide zone.

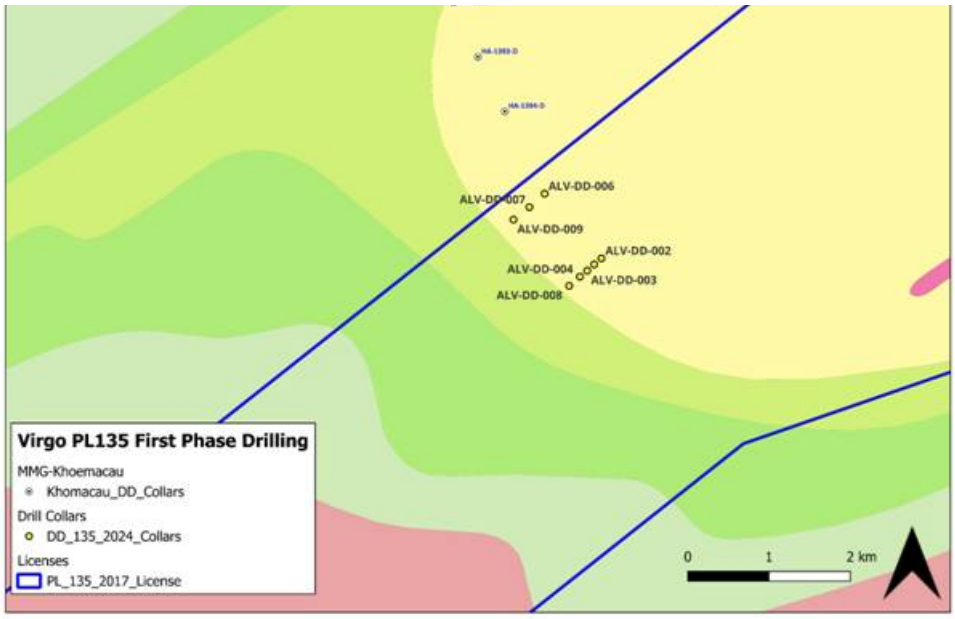

Figure 1. Virgo Project License PL 135/2017 First Phase Drill Plan

Qualified Persons

Mr Vassilios Carellas (BSc (Hons), MAusIMM) is the Chief Operating Officer for Arc Minerals and has sufficient experience 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 under the JORC Code (2012). Mr Carellas consents to the inclusion in this announcement of the technical matters based on his information in the form and context in which it appears.

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Forward-looking Statements

This news release contains forward-looking statements that are based on the Company's current expectations and estimates. Forward-looking statements are frequently characterised by words such as "plan", "expect", "project", "intend", "believe", "anticipate", "estimate", "suggest", "indicate" and other similar words or statements that certain events or conditions "may" or "will" occur. Such forward-looking statements involve known and unknown risks, uncertainties and other factors that could cause actual events or results to differ materially from estimated or anticipated events or results implied or expressed in such forward-looking statements. Such factors include, among others: the actual results of current exploration activities; conclusions of economic evaluations; changes in project parameters as plans continue to be refined; possible variations in ore grade or recovery rates; accidents, labour disputes and other risks of the mining industry; delays in obtaining governmental approvals or financing; and fluctuations in metal prices. There may be other factors that cause actions, events or results not to be as anticipated, estimated or intended. Any forward-looking statement speaks only as of the date on which it is made and, except as may be required by applicable securities laws, the Company disclaims any intent or obligation to update any forward-looking statement, whether as a result of new information, future events or results or otherwise. Forward-looking statements are

not guarantees of future performance and accordingly undue reliance should not be put on such statements due to the inherent uncertainty therein.

Background on the Virgo Licences

Licence PL 135/2017

The Company's prospecting licence PL135/2017 is surrounded on three sides by the prospecting licences of Khoemacau Copper Mining Limited ("Khoemacau"), who have recently been acquired by MMG for c. 1.9 billion.

This licence is located towards the south-eastern margin of the Kalahari Copper Belt occupying a similar geological setting to that recently drilled by Khoemacau at their recent Mawana Fold Discovery and the Zone 9 exploration target, where economic grades of copper mineralisation have already been intersected by drilling. These discoveries are located at the north-western and south-eastern margins of the Company's prospecting licence, respectively.

Khoemacau's Mawana fold discovery has defined a possible economic zone of copper mineralisation that appears to trend towards and into the Company's licence PL 135/2017 (Figure 2.). The Company's recent scout drill holes intersected anomalous grades of copper mineralisation close to this apparent trend and confirmed an east-west trending DKF-NPF contact position approximately 5km long running through the licence.

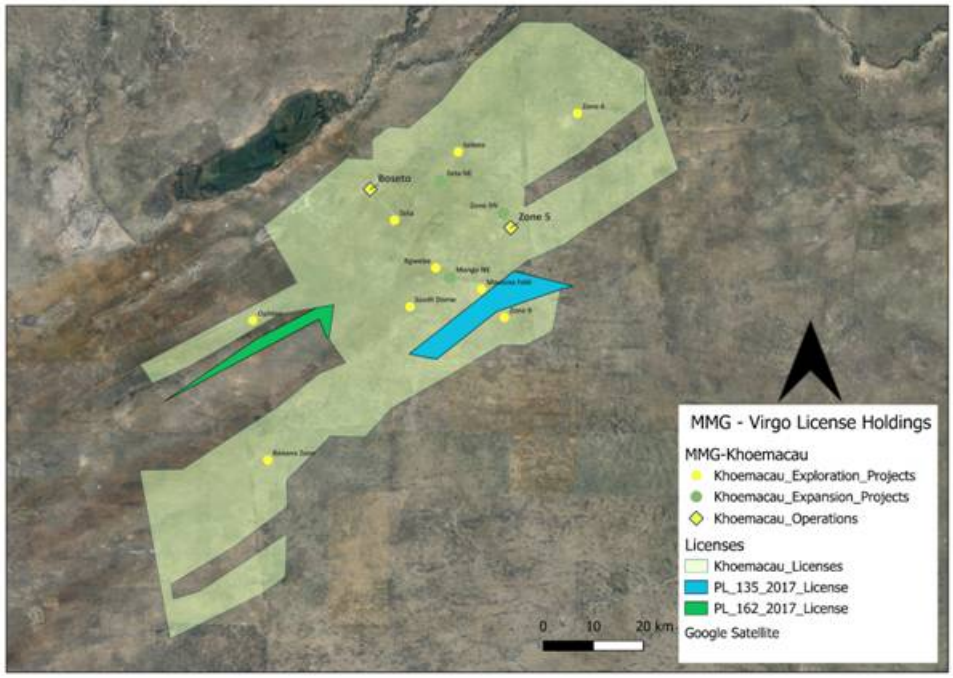

Figure 2. Image showing Khoemacau licence holding, operations, exploration and expansion projects, in relation to Virgo Licenses.

In November 2021, Arc Minerals Limited acquired a 75% interest in Alvis-Crest (Proprietary) Limited, the holder of two prospecting licences (PL 135/2017 & PL 162/2017) in Botswana's Kalahari Copper Belt ("KCB"), colloquially called the Virgo Project/Licences.Licence PL 135/2017 is approximately 10km south-east of the large underground Khoemacau Copper mine recently commissioned by Cupric Canyon Capital LP.

A map of the licences is available here:
http://www.rns-pdf.londonstockexchange.com/rns/3027T_1-2021-3-24.pdf

The Virgo Licences cover an area of over 210km^2 and lie within (PL 165/2017) and adjacent (PL 135/2017) to the highly prospective Central Structural Corridor and within 10km and 50km of the Zone 5 and Banana Zone copper projects respectively, known as the two largest copper projects on the KCB.

Historically, two copper-nickel soil anomalies have already been recorded on PL 135/2017 and PL 162/2017 and are approximately 3km and 2.5km in strike length, respectively. The largest of the two anomalies, located on PL 135/2017, overlays an interpreted DKF-NPF contact, while a second, more intermittent, anomaly may be

linked to extensional faulting around the dome edge. The large coherent anomaly on PL 162/2017 also appears to overlay the interpreted DKF-NPF contact on the northern limb of a syncline.

ENDS

Appendix A

JORC Code, 2012 Edition - Table 1 Report

Section 1 Sampling Techniques and Data

Criteria	JORC Code explanation	Commentary
Sampling techniques	• *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.*	Exploration work involved Re ('DD'). Drilling conditions recovery was used as gro recoveries. Half core samples (split core were confirmed visually as w core. Samples were taken con cutting line. DD Core samples were pro drying, crushing, splitting an Africa. Split core samples received 70% -2mm, following which passing 75 microns. A total of 309 samples were ICP-AES for 30 elements wit Aqua Regia digestion and ICP Ag by fire assay and gravir method).
Drilling techniques	• *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).*	Holes were collared with the Sands followed by a button-b in the D'Kar Formation. DD drilling using a double tu diameter coring further into t contact and into the Ngwako Core was routinely oriented u -
Drill sample recovery	• *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.*	Core recoveries were meas recorded on a standard log than 90% . Samples were taken consiste to avoid any bias. During th

Criteria	JORC Code explanation	Commentary
	• *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.*	checked on procedures to ens half. Core samples are selected on Sample recovery was genera that any bias exists.
Logging	• *Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.* • *Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.* • *The total length and percentage of the relevant intersections logged.*	RC chip samples were analysed w even though they were not expecte Diamond drill core was geologic qualified geologist using predefi (alteration, weathering , colour e on both qualitative identificatio quantitative estimates of mineral The detail of information capture Mineral Resource Estimation as practice and standard operating p All core is photographed as wet and after sampling. Logging intervals are based on ge length of one or one and hal geotechnical parameters, litho geophysical magnetic susceptibili Electronic geological logs are cre on laptop computers and savec appropriate database software.
Sub-sampling techniques and sample preparation	• *If core, whether cut or sawn and whether quarter, half or all core taken.* • *If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.* • *For all sample types, the nature, quality and appropriateness of the sample preparation technique.* • *Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.* • *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.*	Selected intervals of core we half selected for further anal box at the exact same locatio Split line is always checked t marks. Samples undergo sample p pulverizing) carried out by AL QAQC procedures include th field duplicates along with th blanks. Sampling is deemed appropri
Quality of assay data and laboratory tests	• *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.*	All DD drill samples were a Grade Aqua Regia ICP-AES f grade elements by Aqua Regia Ag by fire assay and gravir method). These analytical techniques a During sampling Blanks an These were inserted on 1:20 QAQC protocols they employ
Verification of sampling and assaying	• *The verification of significant intersections by either independent or alternative company personnel.* • *The use of twinned holes.* • *Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.* • *Discuss any adjustment to assay data.*	There are strong visual ind samples and the general geo to give indications of form intersections are visually val to an independent consultan give his opinion as a check. To date no twinning of holes All assay data is stored in a with no adjustment made to t Data storage on partitioned server
Location of data points	• *Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.* • *Specification of the grid system used.* • *Quality and adequacy of topographic control.*	The Botswana Map Grid syste Drill holes were all surveyed recorded. At the time of public dis irregularities picked up with error and were in the process Down hole surveys were done

Criteria	JORC Code explanation	Commentary
		Down hole surveys were done The LIDAR data system prov area whose resolution is con
Data spacing and distribution	• *Data spacing for reporting of Exploration Results.* • *Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.* • *Whether sample compositing has been applied.*	Drilling was conducted alon Exploration on this license i spacing along the profile lin stage of exploration, and r Resource Estimation. No compositing of samples is
Orientation of data in relation to geological structure	• *Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.* • *If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.*	This was the first phase e spaced drilling and hole ori the host stratigraphy as pe considered appropriate for mineralisation styles in the K Existence, and orientation, o yet fully understood but mineralisation is relatively f are more or less parallel to th No significant bias is expect down hole intersection rathe
Sample security	• *The measures taken to ensure sample security.*	Appointed persons are the permission is obtained for a load is still small for a tighte Drill core is stored in a locke
Audits or reviews	• *The results of any audits or reviews of sampling techniques and data.*	An independent consultant h and suggested that future sa Pan contact upwards, using s of mineralisation with veir mineralisation in the fabr disseminated or unmineralis

Section 2 Reporting of Exploration Results

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

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	• *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.*	Arc Minerals Limited acquire Limited, the holder of two prosp in Botswana's Kalahari Coppe Project/Licenses. The Virgo pro of the Kalahari Copperbelt ir and cover an area of over 21 /2017) and (PL 135/2017) Structural Corridor and within Zone copper projects respective on the KCB. Historically, two copper-nickel on PL 135/2017 and PL 162/2(strike length respectively. The 135/2017, overlays an interpr intermittent anomaly may be li edge. The large coherent anom the interpreted DKF-NPF contact The two prospects are situated Copperbelt of Northwestern Bot .
Exploration done by other parties	• *Acknowledgment and appraisal of exploration by other parties.*	Former Anglo American prosp sampling that picked up coppe mines that are operated by MM Several deposits exist within th mining might take place. Acquiring the Virgo Prospecting of a long journey for Alvis Crest Within 20 kilometres is the Z Mines to a tune of 92 Million to

Criteria	JORC Code explanation	Commentary
		Within 120 kilometres is the S 67 Million tonnes of copper ore Within 70 kilometres is the B Mines with 187 million tonnes The Virgo project lie within Copperbelt and needs to be expl ore in the area.
Geology	• *Deposit type, geological setting and style of mineralization..*	The Alvis Crest deposits are strata-bound sediment-hosted typically occurs at the stratigra contact of the oxidised Ngwako siltstone Formation. The bou structurally controlled trap e overlain by unconsolidated Kal lower ductile siltstones and ca the main host for most of the rocks are composed of shallov (millions of years ago) and reduced mudstones and siltsto and thin lagoonal black shale. Economic grades are dominant failure along and close to t Disseminated and hydrotherma combine to produce contir mineralisation over tens of kil zones typically contain diss massive quartz-carbonate and and chalcocite mineralisation. The sequence is developed ve Formation and can be seen to deposits. The typical zonation copper sulphides (chalcocite increasing iron content (chalc coincides with copper solubilit first reductant while chalcopyri
Drill hole Information	• *A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:* ○ *easting and northing of the drill hole collar* ○ *elevation or RL (Reduced Level - elevation above sea level in metres) of the drill hole collar* ○ *dip and azimuth of the hole* ○ *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.*	

Hole Id	Easting	Northing	Rl (m)	Bearing*	Dip*	Depth (m)	Grid
ALV-DD-002	727120.296	7703463.802	999.56	50	-65	450	UTM34S
ALV-DD-003	726944.340	7703312.690	1000.94	50	-65	334	UTM34S
ALV-DD-004	726854.954	7703238.674	1001.08	50	-65	385	UTM34S
ALV-DD-005	727030.721	7703388.939	1000.20	50	-65	335	UTM34S
ALV-DD-006	726420.553	7704259.321	1001.47	50	-65	298	UTM34S
ALV-DD-007	726231.656	7704094.329	1002.00	50	-65	361	UTM34S

Criteria	JORC Code explanation				Commentary		
ALV-DD-008	726722.851	7703126.186	1001.72	50	-65	461	UTM34S
ALV-DD-009	726036.697	7703939.777	1002.12	50	-65	421	UTM34S

** At the time of the announcement of these assay results, a discrepancy with the down hole survey data had been noted. The contractor who carried ou acknowledged an instrument error and was in the process of coming back to site to re-survey all the holes.*

Downhole Mineralised Lengths						
Hole ID	**From**	**To**	**Interval (m)**	**Cu (%)**	**Ag (g/t)**	**CuEq (%)**
ALV-DD-004	326	332	6.00	0.63	16.67	0.82
	includes from 326m		3.00	0.93	32.33	1.29

Criteria used for reporting: Low Grade Cut-Off of 0.2% Cu and minimum length of 3m
Six of the remaining seven holes drilled intersected elevated to anomalous copper mineralisation

Data aggregation methods on methods	• 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.* *grade truncations (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.*	Results > 0.2% Cu average and been averaged and length weigl %') for the downhole length rep No aggregation of short lengths has been reported Copper Equivalents have been Ag = 0.011231% Cu.
Relationship between mineralisation widths and intercept lengths	• *These relationships are particularly important in the reporting of Exploration Results.* • *If the geometry of the mineralisation with respect to the 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').*	Drill intercepts are reported a holes are and will be designed around 60 degrees to the n conversion to true width of the All measurements state that d width has not been suitably e hole survey.
Diagrams	• *Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.*	Refer to figures and tables ir
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.*	Refer to the drill hole inform
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.*	None except plans to contin intersected mineralised zon
Further work	• *The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).*	Based upon these announced r first phase drill programme a

Criteria	JORC Code explanation	Commentary
	• *Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.*	laterally on the fringe of thi interpreted outer halo of the ma All the data is being assessed f for a second phase drill progra zone, targeting the interpreted anticipated to lie East of the c of contact geology has yet to be

Section 3 Estimation and Reporting of Mineral Resources

Not Applicable

Section 4 Estimation and Reporting of Ore Reserves

Not Applicable

Appendix B - Glossary of Technical Terms

"anomaly or anomalous"	something in mineral exploration that geologists interpret as deviating from what is standard, normal, or expected.
"assay"	The laboratory test conducted to determine the proportion of a mineral within a rock or other material. For copper, usually reported as percentage which is equivalent to percentage of the mineral (i.e. copper) per tonne of rock.
"azimuth"	the "compass direction" refers to a geographic bearing or azimuth as measured by a magnetic compass, in true or magnetic north.
"bornite"	Bornite, also known as peacock ore, is a copper sulphide mineral with the formula Cu_5FeS_4.
"breccia"	Breccia is a rock classification, comprises millimetre to metre-scale rock fragments cemented together in a matrix, there are many sub-classifications of breccias.
"chalcocite"	Chalcocite is a copper sulphide mineral with the formula Cu_2S and is an important copper ore mineral. It is opaque and dark-grey to black with a metallic lustre.
"chalcopyrite"	Chalcopyrite is a copper sulphide mineral with formula $CuFeS_2$. It has a brassy to golden yellow colour.
"chargeability"	Chargeability is a physical property related to conductivity. Chargeability is used to characterise the formation and strength of the induced polarisation within a rock, under the influence of an electric field, suggesting sulphide mineralisation at depth.
"covellite"	Covellite is a copper sulphide mineral with the formula CuS. This indigo blue mineral is ubiquitous in some copper ores.
"diamond drilling"	A drilling method in which penetration is achieved through abrasive cutting by rotation of a diamond encrusted drill bit. This drilling method enables collection of tubes of intact rock (core) and when successful gives the best possible quality samples for description, sampling and analysis of an ore body or mineralised structure.
"dip"	A line directed down the steepest axis of a planar structure including a planar ore body or zone of mineralisation. The dip has a measurable direction and inclination from horizontal.
"geochemical"	Refers to geological information using measurements derived from chemical analysis
"geophysical"	Refers to geological information using unit measurements derived from the use of magnetic and electrical readings
"geophysical techniques"	include the exploration of an area by exploiting differences in physical properties of different rock types. Geophysical methods include seismic, magnetic, gravity, induced polarisation and other techniques; geophysical surveys can be undertaken from the ground or from the air
"gossan"	is an iron-bearing weathered product that usually overlies a sulphide deposit
"grab sample"	are samples of rock material collected from a small area, often just a few pieces or even a single piece of rock "grabbed" from a face, dump or outcrop or roughly 2-5kg. These are common types of rock samples collected when conducting mineral exploration. The sample usually consists of material that is taken to be

	representative of a specific type of rock or mineralisation.
"grade"	The proportion of a mineral within a rock or other material. For copper mineralisation this is usually reported as % of copper per tonne of rock.
"g/t"	grams per tonne; equivalent to parts per million ('ppm')
"hematite"	Hematite is the mineral form of iron(III) oxide (Fe_2O_3), one of several iron oxides. Magnetite alteration is also typically associate with porphyry copper systems, at or close to the central core.
"Indicated Resource"	An "Indicated Mineral Resource" is that part of a Mineral Resource for which quantity, grade or quality, densities, shape and physical characteristics, can be estimated with a level of confidence sufficient to allow the appropriate application of technical and economic parameters, to support mine planning and evaluation of the economic viability of the deposit. The estimate is based on detailed and reliable exploration and testing information gathered through appropriate techniques from locations such as outcrops, trenches, pits, workings and drill holes that are spaced closely enough for geological and grade continuity to be reasonably assumed.
"Inferred Resource"	An "Inferred Mineral Resource" is that part of a Mineral Resource for which quantity and grade or quality can be estimated on the basis of geological evidence and limited sampling and reasonably assumed, but not verified, geological and grade continuity. The estimate is based on limited information and sampling gathered through appropriate techniques from locations such as outcrops, trenches, pits, workings and drill holes.
"Induced Polarisation Geophysics"	Induced polarisation (IP) is a geophysical survey used to identify the electrical chargeability of subsurface materials, such as sulphides. The survey involves an electric current that is transmitted into the subsurface through two electrodes, and voltage is monitored through two other electrodes.
"intercept"	Refers to a sample or sequence of samples taken across the entire width or an ore body or mineralised zone. The intercept is described by the entire thickness and the average grade of mineralisation.
"JORC Code"	The Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves ('the JORC Code') is a professional code of practice that sets minimum standards for Public Reporting of minerals Exploration Results, Mineral Resources and Ore Reserves.
"K"	The element potassium, abundance on surface can be inferred from radiometric surveys
"Magnetics"	Rocks are made up of different minerals and the magnetic properties of a rock depends on the amount and type of iron rich minerals it contains. Earth's magnetic field interacts with these iron rich minerals to generate variations in the magnetic field. Measuring and mapping these variations allows remotely mapping of the distribution and patterns of magnetic rocks and, as a result, map the subsurface geology
"magnetite"	Magnetite is main iron ore mineral, with chemical formula Fe_3O_4. Magnetite is ferromagnetic, and it is attracted to a magnet and can be magnetized to become a permanent magnet itself.
"massive"	In a geological sense, refers to a zone of mineralisation that is dominated by sulphide minerals. The sulphide-mineral-rich material can occur in centimetre-scale, metre-scale or in tens of metres wide veins, lenses or sheet-like bodies containing sphalerite, galena, and / or chalcopyrite etc.
"Measured Resource"	A "Measured Mineral Resource" is that part of a Mineral Resource for which quantity, grade or quality, densities, shape, and physical characteristics are so well established that they can be estimated with confidence sufficient to allow the appropriate application of technical and economic parameters, to support production planning and evaluation of the economic viability of the deposit. The estimate is based on detailed and reliable exploration, sampling and testing information gathered through appropriate techniques from locations such as outcrops, trenches, pits, workings and drill holes that are spaced closely enough to confirm both geological and grade continuity.
"Mineral Resource"	A "Mineral Resource" is a concentration or occurrence of diamonds, natural solid inorganic material, or natural solid fossilised organic material including base and precious metals, coal, and industrial minerals in or on the Earth's crust in such form and quantity and of such a grade or quality that it has reasonable prospects for

	such a grade or quality that it has reasonable prospects for economic extraction. The location, quantity, grade, geological characteristics and continuity of a Mineral Resource are known, estimated or interpreted from specific geological evidence and knowledge.
"mineralisation"	In geology, mineralisation is the deposition of economically important metals (copper, gold, lead, zin etc) that in some cases can be in sufficient quantity to form mineral ore bodies.
"open pit mining"	A method of extracting minerals from the earth by excavating downwards from the surface such that the ore is extracted in the open air (as opposed to underground mining).
"outcrop"	A section of a rock formation or mineral vein that appears at the surface of the earth. Geologists take direct observations and samples from outcrops, used in geologic analysis and creating geologic maps. In situ (in place) measurements are critical for proper analysis of the geology and mineralisation of the area under investigation.
"polymict"	A geology term, often applied to breccias or conglomerates, which identifies the composition as consisting of fragments of several different rock types.
"Preliminary Economic Assessment"	NI 43-101 defines a PEA as "a study, other than a pre-feasibility study or feasibility study, which includes an economic analysis of the potential viability of mineral resources".
"Pyrrhotite"	Pyrrhotite is an iron sulphide mineral with the formula Fe(1-x)S (x = 0 to 0.2). It is a nonstoichiometric variant of FeS, the mineral known as troilite. Pyrrhotite is also called magnetic pyrite
"Radiometrics"	The radiometric, or gamma-ray spectrometric method is a geophysical process used to estimate concentrations of the radioelements potassium, uranium and thorium by measuring the gamma-rays which the radioactive isotopes of these elements emit during radioactive decay
"sediments"	Sedimentary rocks formed by the accumulation of sediments. There are three types, Clastic, Chemical and Organic sedimentary rocks.
"sphalerite"	Sphalerite is a zinc sulphide in crystalline form but almost always contains variable iron, with formula (Zn,Fe)S. It can have a yellowish to honey brown or black colour.
"supergene"	Supergene ore processes occur near surface, and form deposits of secondary minerals, such as malachite, azurite, chalcocite, covellite, digenite, etc.
"surface rock chip samples"	Rock chip samples approximately 2kg in size that are typically collected from surface outcrops exposed along rivers and mountain ridgelines.
"syncline"	a trough of stratified rock in which the beds dip toward each other from either side.
"Th"	The element thorium, abundance on surface can be inferred from radiometric surveys
"U"	The element uranium, abundance on surface can be inferred from radiometric surveys
"veins"	A vein is a sheet-like or anastomosing fracture that has been infilled with mineral ore (chalcopyrite, covellite etc) or mineral gangue (quartz, calcite etc) material, within a rock. Veins form when minerals carried by an aqueous solution within the rock mass are deposited through precipitation and infill or coat the fracture faces.
"volcanics"	Volcanic rock such as andesite or basalt that is formed from magma erupted from a volcano, or hot clastic material that erupts from a volcano and is deposited as volcaniclastic or pyroclastics.
"XRF"	Instrument to determine the chemistry of a sample by measuring the fluorescent (or secondary) X-ray emitted from a sample when it is excited by a primary X-ray source

END

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