

29 October 2019

#### MORE STRONG RESULTS FROM STEP-OUT DRILLING AT MT ALEXANDER

<u>Multiple electromagnetic (EM) conductors identified down-plunge of shallow nickel-copper sulphide deposits:</u>

- Downhole EM surveys in the recently completed deep stratigraphic holes along the Cathedrals Belt have identified seven strong off-hole EM conductors
- New conductors have electrical properties consistent with massive sulphides
- Excellent potential for drilling of the new targets to discover more high-grade mineralisation down-plunge of the known shallow deposits at Investigators, Stricklands and Cathedrals Prospects

MAD168 intersects thick nickel-copper sulphides 80m down-plunge of known mineralisation at the Investigators Prospect:

Large step-out hole at Investigators intersects breccia and stringer sulphides as follows:

MAD168 Interval	Style of Mineralisation
227.1m to 232.5m	Ultramafic with disseminated sulphides increasing with depth (1-5% sulphides comprising pentlandite (pn), chalcopyrite (cp) and pyrrhotite (po)
232.5m to 233.55m	Ultramafic with significant breccia and stringer sulphides (20% sulphides comprising pn, cp, po)

- Style of mineralisation is indicative of sulphides remobilised from a larger, proximal source
- Downhole EM survey identifies strong off-hole conductors

Growth-focused Western Australian nickel company St George Mining Limited (ASX: **SGQ**) ("**St George**" or "**the Company**") is pleased to announce more significant results from ongoing exploration programmes at its flagship Mt Alexander Project, located in the north-eastern Goldfields.

The shallow, high-grade nickel-copper sulphides discovered at the Cathedrals Belt to date are associated with mafic-ultramafic intrusions interpreted to have passed upwards from the Earth's mantle through structures located in the northern margin of the Belt.

Deeper drilling to track the mineralised intrusive units down-plunge of the shallow deposits has successfully intersected these units in their interpreted down-dip extension; see our ASX Release dated 4 October 2019 'Deep Drilling Confirms Continuity of Mineralisation'.

Downhole EM (DHEM) surveys underway in these deeper holes have now identified multiple off-hole EM conductors, which are excellent targets for the discovery of further nickel-copper sulphide mineralisation.



#### John Prineas, St George Mining's Executive Chairman, said:

"These new EM targets from the deeper holes indicate that the large, high-grade mineral system at the Cathedrals Belt is 'live' at depth.

"With all EM conductors drilled in the Cathedrals Belt confirmed as nickel-copper sulphides, the new EM conductors present a tremendous opportunity to make further discoveries and to confirm the continuation of mineralisation down-plunge.

"We are seeing increasing potential for significant mineralisation at depth, and are excited to be escalating our drill programme to more intensely test this priority target area."

### MAD168 – Confirms Another Significant Down-Plunge Extension:

MAD168 is the latest deep stratigraphic hole to be completed at the Cathedrals Belt. The hole was drilled to a downhole depth of 301m and intersected 6.5m of nickel-copper sulphides from 227.1m downhole. The sulphides were intersected in the interpreted down-dip continuation of the Investigators ultramafic unit.

MAD168 is a large 95m step-out to the north of the previously known mineralisation in MAD123, and has confirmed a significant extension of the down-plunge strike of high-grade mineralisation at Investigators.

The breccia and stringer sulphides intersected by MAD168 suggest remobilisation from a larger and proximal source of massive nickel-copper sulphides. This interpretation is given additional weight by the high chalcopyrite content of the sulphides in MAD168, a further indicator of proximal remobilised mineralisation.



Figure 1 – photos of the drill core from MAD168 at approximately 230m downhole, showing breccia and stringer sulphides





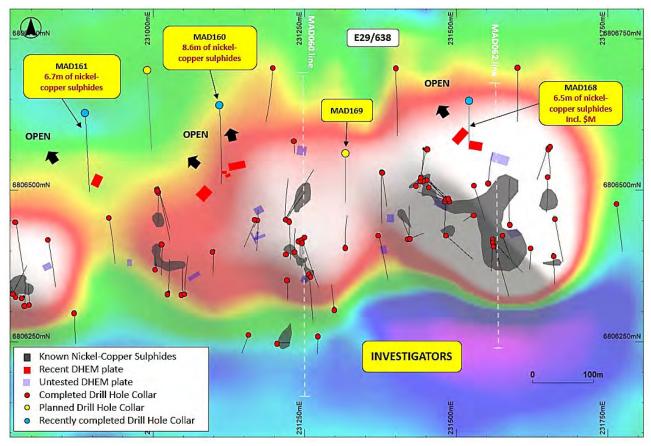


Figure 2 – plan view map of the Cathedrals Belt (set against SAM data) highlighting the deeper drill holes recently completed at the Investigators Prospect and the large number of untested EM plates.

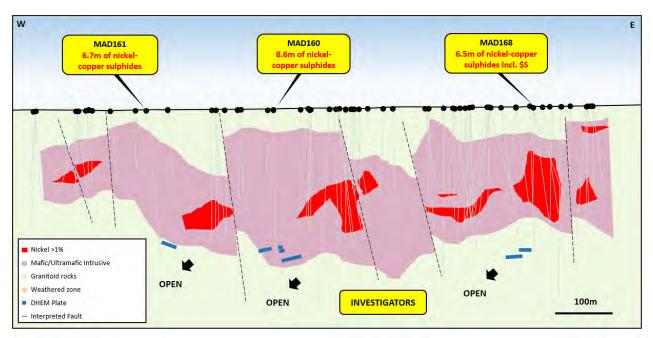


Figure 3 – schematic long section (+/-50m, looking north) of Investigators showing drill hole traces and location of new EM conductors down-plunge of known mineralisation.

## New EM Conductors - Down-Plunge of Shallow Deposits

Figure 3 is a long section of the area at Investigators where the new EM conductors have been identified by DHEM surveys, and shows the location of those conductors down-plunge of the known nickel-copper sulphide deposits.



DHEM surveys have yet to be carried out in all recently completed deep drill holes and additional targets may be identified.

Table 1 below contains details of the new EM conductors. The modelled plates are interpreted to represent the highest grade of massive nickel-copper sulphides within the detectable limits of the EM surveys and are not definitive of all potential mineralisation.

Drill results have shown that large volumes of mineralisation – including massive, semi-massive, matrix and disseminated sulphides – can occur around the modelled EM plates but are not detected by EM surveys.

In addition, the geometry of any mineral deposit can vary significantly to the geometry of the corresponding EM plate which can only be modelled as a 2-dimensional and four-sided polygon.

Modelled EM Plate	Easting	Northing	Depth below surface (m)	Length (m)	Width (m)	Conductivity (S)
MAD160_p1	231131	6806535	251	19	9	10155
MAD160_p2	231099	6806493	228	11	11	14645
MAD160_p3	231117	6806527	245	3	2	17290
MAD160_p4	231122	6806524	272	4	4	28130
MAD161_p1	230902	6806505	238	10	14	25315
MAD168_p1	231509	6806586	221	23	8	5270
MAD168_p2	231530	6806571	214	18	8	5000

Table 1 – List of new DHEM plates at the Investigators Prospect.

#### **DRILL PROGRAMME CONTINUES**

Table 2 contains details of the completed drill holes for the current drill programme at Mt Alexander.

Diamond drilling is continuing with MAD169 currently in progress at Investigators. This is another deeper stratigraphic hole planned to a depth of 300m and designed to test for further mineralisation in the downplunge area.

#### Radar and Bullets:

An RC (reverse circulation) drill rig is expected to arrive at site soon to commence follow-up drilling at the Radar and Bullets Prospects.

Radar is the fourth discovery across a 5.5km of strike of the east-west oriented Cathedrals Belt and 1.2km east of the Cathedrals Prospect. Assays from the MAD152 discovery hole confirmed high-grade mineralisation with 6m @ 2.14% Ni, 0.74% Cu and 1.62g/t PGEs from 46m; see our ASX Release dated 9 October 2019 'Assays Confirm High-Grade Nickel-Copper Sulphide Discovery'.

## Fish Hook:

Assays for the recently completed soil survey are pending. Following a review of the assays, an EM survey and/or drilling will be progressed at Fish Hook.

#### West End:

The crew for the moving loop EM (MLEM) survey planned for West End is due to return to site shortly. They will complete the MLEM survey towards the Ida Fault in the western section of the Cathedrals Belt.



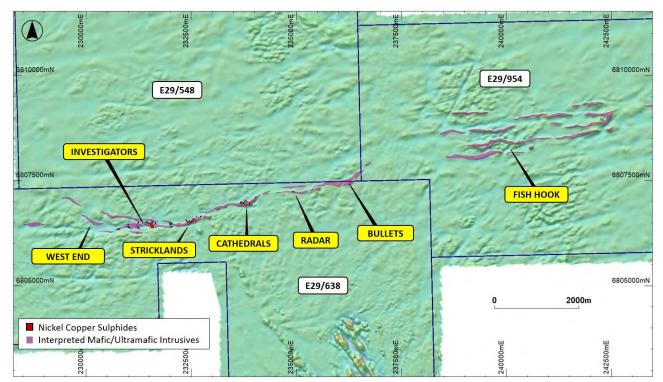


Figure 4 – map of the Mt Alexander tenements (against RTP 1VD magnetic data) with key prospects on the Cathedrals Belt highlighted.

Based on the intersection angle of the drilling with the modelled ultramafic unit, downhole widths are interpreted to be close to true widths.

Nickel and copper values shown above for recently completed drill holes are based on portable XRF analysis. They are preliminary in nature and a conclusive determination of the nickel, copper, cobalt and PGE values of the sulphide mineralisation will be confirmed when laboratory assays are available.

Average XRF readings in the massive sulphide interval are based on at least four readings per metre (unless otherwise stated) and are not length and density weighted.

Metal content for intervals of disseminated sulphides are not accurately determined by portable XRF analysis and estimates for this style of mineralisation are based on geological logging.

Hole ID	Prospect	East	North	RL	Depth	Azi	Dip	Target
MAD144	Investigators	231010	6806499	419	230	165	-71	EM plate 82,000 siemens
MAD145	Investigators	231650	6806569	424.6	230	196	-77	EM plate 20,000 siemens
MAD146	Investigators	231377	6806531	422.8	220	170	-75	EM plate 34,000 siemens
MAD147	Investigators	231299	6806305	422	150.8	353	-75	EM plate 30,000 siemens



MAD148	Investigators	231234	6806400	421	210.9	358	-80	EM plate 28,000 siemens
MAD149	Investigators	231219	6806454	421	240.6	28	-68	EM Plate 20,000 siemens
MAD150	Investigators	231170	6806452	421	217	201	-78	EM Plate 15,000 siemens
MAD151	Fairbridge	233270	6807080	423	330.5	155	-70	Stratigraphic hole
MAD152	Radar	234933	6807257	414	81.7	180	-70	EM Plate 30,000 siemens
MAD153	Cathedrals	233627	6807171	420	450	155	-65	Stratigraphic hole
MAD154	Stricklands	232284	6806673	442	450	135	-65	Stratigraphic hole
MAD155	Investigators	231925	6806510	420	120.8	120.8	-70	EM Plate 8,000 siemens
MAD156	Investigators	231651	6806571	426	220.1	220.1	-78	EM plate 30,000 siemens
MAD157	Investigators	231008	6806504	418.7	220.1	220.1	-78	EM plate 89,000 siemens
MAD158	Investigators	231174	6806451	420	211.2	211.2	-85	EM Plate 8,000 siemens
MAD159	Investigators	231982	6806672	431	300	300	-65	Step-out Stratigraphic hole
MAD160	Investigators	231110	6806639	420	300	300	-65	Step-out Stratigraphic hole
MAD161	Investigators	230883	6806625	420	300.9	177	-65	Step-out Stratigraphic hole
MAD162	Stricklands	232299.7	6806600	440.9	168.7	122	-65	Stratigraphic hole
MAD163	Radar	234918.7	6807240	413.7	81.4	177	-70	Radar step- out
MAD164	Radar	234932	6807283	413.7	81.4	177	-70	Radar step- out



MAD165	Bullets	235969.6	6807452	429.9	102.7	150	-65	SAM Stratigraphic hole
MAD166	Investigators	231923.3	6806507	429.2	140	236	-69	EM plate 5,000 siemens
MAD167	Stricklands	232284.3	6806673	442.4	250	170	-65	Step-out Stratigraphic hole
MAD168	Investigators	231502.9	6806658	423	301	177	-70	Step-out Stratigraphic hole
MAD169	Investigators	231319	6806633	420.2	301	177	-65	Step-out Stratigraphic hole
MARC123	West End	228729	6806529	407	226	180	-65	SAM Stratigraphic hole
MARC124	Investigators	230871	6806300	418	155	180	-70	SAM Stratigraphic hole
MARC125	Investigators	231158	6806262	421	101	200	-70	SAM Stratigraphic hole
MARC126	Investigators	231272	6806262	422	89	180	-70	SAM Stratigraphic hole
MARC127	West End	230701	6806679	417	203	180	-65	SAM Stratigraphic hole
MARC128	Stricklands	232361	6806549	441	166	96	-76	EM Plate 10,000 siemens
MARC129	West End	230552	6806287	416	143	180	-70	SAM Stratigraphic hole
MARC130	Bullets	236227	6807439	420	120	150	-65	SAM Stratigraphic hole
MARC131	Bullets	236184	6807516	420	154	150	-65	SAM Stratigraphic hole

Table 2 – drill holes completed and underway in current drill programme at Mt Alexander.



#### **About the Mt Alexander Project:**

The Mt Alexander Project is located 120km south-southwest of the Agnew-Wiluna Belt, which hosts numerous world-class nickel deposits. The Project comprises five granted exploration licences – E29/638, E29/548, E29/962, E29/954 and E29/972.

The Cathedrals, Stricklands and Investigators nickel-copper-cobalt-PGE discoveries are located on E29/638, which is held in joint venture by St George Mining Limited (75%) and Western Areas Limited (25%). St George is the Manager of the Project, with Western Areas retaining a 25% non-contributing interest in the Project (in regard to E29/638 only) until there is a decision to mine.

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#### **Competent Person Statement:**

The information in this report that relates to Exploration Targets, Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Mr Dave O'Neill, a Competent Person who is a Member of The Australasian Institute of Mining and Metallurgy. Mr O'Neill is employed by St George Mining Limited to provide technical advice on mineral projects, and he holds performance rights issued by the Company.

Mr O'Neill 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'. Mr O'Neill consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

# The following section is provided for compliance with requirements for the reporting of exploration results under the JORC Code, 2012 Edition.

# **Section 1 Sampling Techniques and Data**

(Criteria in this section apply to all succeeding sections)

JORC Code explanation	Commentary
Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the	Drilling programmes are completed by Reverse Circulation (RC) and Diamond Core drilling. Surface Electro-Magnetic (EM) surveys are completed by GAP geophysics.
gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.	Diamond Core Sampling: The sections of the core that are selected for assaying are marked up and then recorded on a sample sheet for cutting and sampling at the certified assay laboratory. Samples of HQ or NQ2 core are cut just to the right of the orientation line where available using a diamond core saw, with half core sampled lengthways for assay.
	RC Sampling: All samples from the RC drilling are taken as 1m samples for laboratory assay.
	<i>EM Surveying:</i> All data is collected in a Moving Loop (MLEM) survey configuration using MLEM TX transmitter with a SMARTem 24 receiver.
	Appropriate QAQC samples (standards, blanks and duplicates) are inserted into the sequences as per industry best practice. Samples are collected using cone or riffle splitter. Geological logging of RC chips is completed at site with representative chips being stored in drill chip trays.
Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.	Onsite XRF analysis is conducted on the fines from RC chips using a hand-held Olympus Innov-X Spectrum Analyser. These results are used for onsite interpretation and preliminary assessment subject to final geochemical analysis by laboratory assays.
	RC Sampling: Samples are taken on a one metre basis and collected using uniquely numbered calico bags. The remaining material for that metre is collected and stored in a green plastic bag marked with that specific metre interval. The cyclone is cleaned with compressed air after each plastic and calico sample bag is removed. If wet sample or clays are encountered then the cyclone is opened and cleaned manually and with the aid of a compressed air gun. A blank sample is inserted at the beginning of each hole, and a duplicate sample is taken every 50 <sup>th</sup> sample. A certified sample standard is also added according to geology, but at no more than 1:50 samples.
	Geological logging of RC chips is completed at site with representative chips being stored in drill chip trays. Downhole surveys of dip and azimuth are conducted using a single shot camera every 30m, and using a downhole Gyro when required, to detect deviations of the hole from the planned dip and azimuth. The drill-hole collar locations are recorded using a hand-held GPS, which has an accuracy of +/- 5m. All drill-hole collars will be surveyed to a greater degree of accuracy using a certified surveyor at a later date.
	Diamond Core Sampling: For diamond core samples, certified sample standards were added as every 25 <sup>th</sup> sample. Core recovery calculations are made through a reconciliation of the actual core and the driller's records. Downhole surveys of dip and azimuth were conducted using a single shot camera every 30m to detect deviations of the hole from the planned dip and azimuth. The drill-hole collar locations are recorded using a hand-held GPS, which has an accuracy of +/- 5m. All drill-hole collars will be surveyed to a greater degree of accuracy using a certified surveyor at a later date.
	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

Criteria	JORC Code explanation	Commentary
	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	RC Sampling: A 1m composite sample is taken from the bulk sample of RC chips that may weigh in excess of 40 kg. Each sample collected for assay typically weighs 2-3kg, and once dried, is prepared for the laboratory as per the Diamond samples below.
	'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	Diamond Core Sampling: Diamond core (both HQ and NQ2) is half-core sampled to geological boundaries no more than 1.5m and no less than 10cm. Samples less than 3kg are crushed to 10mm, dried and then pulverised to 75μm. Samples greater than 3kg are first crushed to 10mm then finely crushed to 3mm and input into the rotary splitters to produce a consistent output weight for pulverisation.
	mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.	Pulverisation produces a 40g charge for fire assay. Elements determined from fire assay are gold (Au), platinum (Pt) and palladium (Pd) with a 1ppb detection limit. To determine other PGE concentrations (Rh, Ru, Os, Ir) a 25g charge for nickel sulphide collect fire assay is used with a 1ppb detection limit.
		Other elements will be analysed using an acid digest and an ICP finish. These elements are: Ag, Al, As, Bi, Ca, Cd, Co, Cr, Fe, K, Li, Mg, Mn, Mo, Nb, Ni, P, Pb, S, Sb, Sn, Te, Ti, V, W, Zn. The sample is digested with nitric, hydrochloric, hydrofluoric and perchloric acids to effect as near to total solubility of the sample as possible. The sample is then analysed using ICP-AES or ICP-MS.
		LOI (Loss on Ignition) will be completed on selected samples to determine the percentage of volatiles released during heating of samples to $1000^{\circ}\text{C}$ .
Drilling techniques	Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diametre, triple or standard tube, depth of diamond tails, facesampling bit or other type, whether core is	Diamond Core Sampling: The collars of the diamond holes were drilled using RC drilling down through the regolith to the point of refusal or to a level considered geologically significant to change to core. The hole was then continued using HQ diamond core until the drillers determined that a change to NQ2 coring was required.
	oriented and if so, by what method, etc).	The core is oriented and marked by the drillers. The core is oriented using ACT Mk II electric core orientation.
		RC Sampling: The RC drilling uses a 140 mm diametre face hammer tool. High capacity air compressors on the drill rig are used to ensure a continuously sealed and high pressure system during drilling to maximise the recovery of the drill cuttings, and to ensure chips remain dry to the maximum extent possible.
Drill sample recovery	Method of recording and assessing core and chip sample recoveries and results assessed.	Diamond Core Sampling: Diamond core recoveries are recorded during drilling and reconciled during the core processing and geological logging. The core length recovered is measured for each run and recorded which is used to calculate core recovery as a percentage.
		RC Sampling: RC samples are visually checked for recovery, moisture and contamination. Geological logging is completed at site with representative RC chips stored in chip trays.
	Measures taken to maximise sample recovery and ensure representative nature of the samples.	RC Sampling: Samples are collected using cone or riffle splitter. Geological logging of RC chips is completed at site with representative chips being stored in drill chip trays.
		Diamond Core Sampling: Measures taken to maximise core recovery include using appropriate core diameter and shorter barrel length through the weathered zone, which at Cathedrals and Investigators is mostly <20m and Stricklands <40m depth. Primary locations for core loss in fresh rock are on geological contacts and structural zones, and drill techniques are adjusted accordingly, and if possible these zones are predicted from the geological modelling.

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.	To date, no sample recovery issues have yet been identified that would impact on potential sample bias in the competent fresh rocks that host the mineralised sulphide intervals.			
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.	Geological logging is carried out on all drill holes with lithology, alteration, mineralisation, structure and veining recorded.			
	Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.				
	The total length and percentage of the relevant intersections logged.	All drill holes are geologically logged in full and detailed lithogeochemical information is collected by the field XRF unit. The data relating to the elements analysed is used to determine further information regarding the detailed rock composition.			
Sub-sampling techniques and sample preparation	If core, whether cut or sawn and whether quarter, half or all core taken.	Diamond Core Sampling: Diamond core was drilled with HQ and NQ2 size and sampled as complete half core to produce a bulk sample for analysis. Intervals selected varied from 0.3 – 1m (maximum) The HQ and NQ2 core is cut in half length ways just to the right of the orientation line where available using a diamond core saw. All samples are collected from the same side of the core where practicable.			
		Assay preparation procedures ensure the entire sample is pulverised to 75 microns before the sub-sample is taken. This removes the potential for the significant sub-sampling bias that can be introduced at this stage.			
	If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.	RC samples are collected in dry form. Samples are collected using cone or riffle splitter when available. Geological logging of RC chips is completed at site with representative chips being stored in drill chip trays.			
	For all sample types, the nature, quality and appropriateness of the sample preparation	RC Sampling: Sample preparation for RC chips follows a standard protocol.			
	technique.	The entire sample is pulverised to 75 $\mu$ m using LM5 pulverising mills. Samples are dried, crushed and pulverized to produce a homogenous representative sub-sample for analysis. A grind quality target of 90% passing 75 $\mu$ m is used.			
	Quality control procedures adopted for all sub- sampling stages to maximise representivity of samples.	Quality control procedures include submission of Certified Reference Materials (standards), duplicates and blanks with each sample batch. QAQC results are routinely reviewed to identify and resolve any issues.			
		RC Sampling: Field QC procedures maximise representivity of RC samples and involve the use of certified reference material as assay standards, along with blanks, duplicates and barren washes.			
		Diamond Core Sampling: Drill core is cut in half lengthways and the total half-core submitted as the sample. This meets industry standards where 50% of the total sample taken from the diamond core is submitted.			

Criteria	JORC Code explanation	Commentary
	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.	Duplicate samples are selected during sampling. Samples comprise two quarter core samples for Diamond Core. Duplicate RC samples are captured using two separate sampling apertures on the splitter.
	Whether sample sizes are appropriate to the grain size of the material being sampled.	The sample sizes are considered to be appropriate to correctly represent base metal sulphide mineralisation and associated geology based on: the style of mineralisation (massive and disseminated sulphides), the thickness and consistency of the intersections and the sampling methodology.
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 RC sampling, a 30 gram sample will be fire assayed for gold, platinum and palladium. The detection range for gold is $1-2000$ ppbAu, and $0.5-2000$ ppb for platinum and palladium. This is believed to be an appropriate detection level for the levels of these elements within this specific mineral environment. However, should Au, Pt or Pd levels reported exceed these levels; an alternative assay method will be selected.
		All other metals will be analysed using an acid digest and an ICP finish. The sample is digested with nitric, hydrochloric, hydrofluoric and perchloric acids to effect as near to total solubility of the sample as possible. The solution containing samples of interest, including those that need further review, will then be presented to an ICP-OES for the further quantification of the selected elements.
		Diamond core samples are analysed for Au, Pt and Pd using a 40g lead collection fire assay; for Rh, Ru, Os, Ir using a 25g nickel sulphide collection fire assay; and for Ag, Al, As, Bi, Ca, Cd, Co, Cr, Fe, K, Li, Mg, Mn, Mo, Nb, Ni, P, Pb, S, Sb, Sn, Te, Ti, V, W, Zn using a four acid digest and ICP-AES or MS finish. The assay method and detection limits are appropriate for analysis of the elements required.
	For geophysical tools, spectrometres, handheld XRF instruments, etc, the parametres used in determining the analysis including instrument	MLEM: 200m x 200m loops with 50m stations were used for the MLEM surveys. The MLEM TX transmitter uses a base frequency of 0.25 or 0.5Hz and 100amps. The SMARTem 24 is a fluxgate receiver.
	make and model, reading times, calibrations factors applied and their derivation, etc.	XRF: A handheld XRF instrument (Olympus Innov-X Spectrum Analyser) is used to systematically analyse the drill core and RC sample piles onsite. One reading is taken per metre, however for any core samples with matrix or massive sulphide mineralisation then multiple samples are taken at set intervals per metre. The instruments are serviced and calibrated at least once a year. Field calibration of the XRF instrument using standards is periodically performed (usually daily).
		The handheld XRF results are only used for preliminary assessment and reporting of element compositions, prior to the receipt of assay results from the certified laboratory.
	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	Laboratory QAQC involves the use of internal lab standards using certified reference material (CRMs), blanks and pulp duplicates as part of in-house procedures. The Company also submits a suite of CRMs, blanks and selects appropriate samples for duplicates.
	have been established.	Sample preparation checks for fineness are performed by the laboratory to ensure the grind size of 90% passing $75\mu m$ is being attained.
Verification of sampling and assaying	The verification of significant intersections by either independent or alternative company personnel.	Significant intersections are verified by the Company's technical staff.
	The use of twinned holes.	No twinned holes have been planned for the current drill programme.

Criteria	JORC Code explanation	Commentary
	Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.	Primary data is captured onto a laptop using acQuire software and includes geological logging, sample data and QA/QC information. This data, together with the assay data, is entered into the St George Mining central SQL database which is managed by external consultants.
	Discuss any adjustment to assay data.	No adjustments or calibrations will be made to any primary assay data collected for the purpose of reporting assay grades and mineralised intervals. For the geological analysis, standards and recognised factors may be used to calculate the oxide form assayed elements, or to calculate volatile free mineral levels in rocks.
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	Drill holes and EM stations have been located and pegged using a DGPS system with an expected accuracy of +/-5m for easting, northing and elevation.
	used in Mineral Resource estimation.	Downhole surveys are conducted using a single shot camera approximately every 30m or downhole Gyro during drilling to record and monitor deviations of the hole from the planned dip and azimuth. Post-drilling downhole gyroscopic surveys will be conducted, which provide more accurate survey results.
	Specification of the grid system used.	The grid system used is GDA94, MGA Zone 51.
	Quality and adequacy of topographic control.	Elevation data has been acquired using DGPS surveying at individual collar locations and entered into the central database. A topographic surface has been created using this elevation data.
Data spacing and distribution	Data spacing for reporting of Exploration Results.	The spacing and distribution of holes is not relevant to the drilling programs which are at the exploration stage rather than definition drilling.
	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.	The completed drilling at the Project is not sufficient to establish the degree of geological and grade continuity to support the definition of Mineral Resource and Reserves and the classifications applied under the 2012 JORC code.
	Whether sample compositing has been applied.	No compositing has been applied to the exploration results.
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.	The drill holes are drilled to intersect the modelled mineralised zones at a near perpendicular orientation (unless otherwise stated). However, the orientation of key structures may be locally variable and any relationship to mineralisation has yet to be identified.
	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.	No orientation based sampling bias has been identified in the data to date.
Sample security	The measures taken to ensure sample security.	Chain of Custody is managed by the Company until samples pass to a duly certified assay laboratory for subsampling and assaying. The RC sample bags are stored on secure sites and delivered to the assay laboratory by the Company or a competent agent. When in transit, they are kept in locked premises. Transport logs have been set up to track the progress of samples.
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	Sampling techniques and procedures are regularly reviewed internally, as is data. To date, no external audits have been completed on the drilling programme.

# Section 2 Reporting of Exploration Results (Criteria listed in section 1 will also apply to this section where relevant)

Criteria	JORC Code explanation	Commentary
Mineral Tenement and Land Status	Type, name/reference number, location and ownership including agreements or material issues with third parties including joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.	The Mt Alexander Project is comprised of five granted Exploration Licences (E29/638, E29/548, E29/954, E29/962 and E29/972). Tenement E29/638 is held in Joint Venture between St George (75% interest) and Western Areas (25% interest). E29/638 and E29/548 are also subject to a royalty in favour of a third party that is outlined in the ASX Release dated 17 December 2015 (as regards E29/638) and the ASX release dated 18 September 2015 (as regards E29/548).
	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.	No environmentally sensitive sites have been identified on the tenements. A registered Heritage site known as Willsmore 1 (DAA identification 3087) straddles tenements E29/548 and E29/638. All five tenements are in good standing with no known impediments.
Exploration Done by Other Parties	Acknowledgment and appraisal of exploration by other parties.	Exploration on tenements E29/638 and E29/962 has been largely for komatiite-hosted nickel sulphides in the Mt Alexander Greenstone Belt. Exploration in the northern section of E29/638 (Cathedrals Belt) and also limited exploration on E29/548 has been for mafic/ultramafic intrusion related Ni-Cu-PGE sulphides. No historic exploration has been identified on E29/954 or E29/972.
		High grade nickel-copper-PGE sulphides were discovered at the Mt Alexander Project in 2008. Drilling was completed to test co-incident electromagnetic (EM) and magnetic anomalies associated with nickel-PGE enriched gossans in the northern section of current tenement E29/638. The drilling identified high grade nickel-copper mineralisation in granite-hosted ultramafic units and the discovery was named the Cathedrals Prospect.
Geology	Deposit type, geological setting and style of mineralisation	The Mt Alexander Project is at the northern end of a western bifurcation of the Mt Ida Greenstones. The greenstones are bound to the west by the Ida Fault, a significant Craton-scale structure that marks the boundary between the Kalgoorlie Terrane (and Eastern Goldfields Superterrane) to the east and the Youanmi Terrane to the west.
		The Mt Alexander Project is prospective for further high-grade komatiite-hosted nickel-copper-PGE mineralisation (both greenstone and granite hosted) and also precious metal mineralisation (i.e. orogenic gold) that is typified elsewhere in the Yilgarn Craton.
Drill hole information	A summary of all information material to the understanding of the exploration results including 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	Drill hole collar locations are shown in the maps and tables included in the body of the relevant ASX releases.
Data aggregation methods	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.	Reported assay intersections are length and density weighted. Significant intersections are determined using both qualitative (i.e. geological logging) and quantitative (i.e. lower cut-off) methods.
	grades) and cut-off grades are usually Material and should be stated.	For massive sulphide intersections, the nominal lower cut-off is 2% for either nickel or copper. For disseminated, blebby and matrix sulphide intersections the nominal lower cut-off for nickel is 0.3%.

Criteria	JORC Code explanation	Commentary
	Where aggregated intercepts incorporate short lengths of high grade results and longer lengths	Any high-grade sulphide intervals internal to broader zones of sulphide mineralisation are reported as included intervals.
	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.	Any disseminated, matrix, brecciated or stringer sulphides with (usually) >1% nickel or copper on contact with massive sulphide mineralisation are grouped with the massive sulphides for calculating significant intersections and the massive sulphide mineralisation is reported as an including intersection.
	The assumptions used for any reporting of metal equivalent values should be clearly stated.	No metal equivalent values are used for reporting exploration results.
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.	Assay intersections are reported as down hole lengths. Drill holes are planned as perpendicular as possible to intersect the target EM plates and geological targets so downhole lengths are usually interpreted to be near true width.
iagrams	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 plane view of drill hole collar locations and appropriate sectional views.	A prospect location map, cross section and long section are shown in the body of relevant ASX Releases.
Balanced Reporting	Where comprehensive reporting of all Exploration Results is not practical, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.	Reports on recent exploration can be found in ASX Releases that are available on our website at <a href="https://www.stgm.com.au">www.stgm.com.au</a> :  The exploration results reported are representative of the mineralisation style with grades and/or widths reported in a consistent manner.
Other substantive exploration data	Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observation; 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.	All material or meaningful data collected has been reported.
Further Work	The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large — scale step — out drilling). Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.	A discussion of further exploration work underway is contained in the body of recent ASX Releases.  Further exploration will be planned based on ongoing drill results, geophysical surveys and geological assessment of prospectivity.