

GRAPHITE MARKETING RAMPS UP ON COMPLETION OF PILOT PLANT

Sovereign Metals Limited (“the Company” or “Sovereign”) is pleased to announce the successful completion of its graphite pilot plant program conducted at SGS Lakefield in Canada. The program produced over four tonnes of high-quality graphite concentrates from the world-class Malingunde saprolite-hosted graphite project in Malawi. Completion of the pilot plant has allowed a ramp up in graphite sales and marketing activities, with the distribution of concentrates to numerous potential offtake partners already commenced.

The Company’s current operational focus is on its recently discovered rutile prospects whilst at the same time progressing graphite offtake, financing and permitting requirements.

HIGHLIGHTS:

- ✦ Production of over four tonnes of graphite concentrate for distribution to potential offtake partners and for vendor testing to maximise the robustness of process plant design input.
- ✦ Strong response from potential offtake customers with 10+ parties having already requested and been provided samples for assessment.
- ✦ Sizing and grade specification produced by the pilot plant are highly marketable and fit within the current traditional industrial market and Li-ion battery feedstock requirements.
- ✦ The Company is now able to provide large quantities of product on-demand for immediate testing and qualification to groups with which it has an existing relationship and to new potential offtake customers.
- ✦ Sovereign is well advanced in discussions with numerous Tier 1 end users and traders of graphite, particularly in the industrial space and primarily for coarser flake material.
- ✦ Confirmation of a highly robust process flow sheet with bulk samples across a range of lateral areas and vertical depths producing consistent products and high recoveries.
- ✦ The results of the pilot plant program confirmed the flowsheet that employs standard mineral processing equipment and that will be used in the detailed engineering of the Definitive Feasibility Study (“DFS”).

Sovereign’s Managing Director Dr Julian Stephens commented:

“The results of the pilot plant program show a very robust, simple and now proven process flowsheet. The high-grade, soft, free-dig saprolite-hosted ore, requiring no primary crush or grind provides us with a significant advantage over our hard-rock peers. This best practice level of process testwork has provided informative data to further validate and refine the production pathway which will be incorporated into the DFS. The strong response for concentrate samples by potential offtake partners is extremely encouraging and the Company looks forward to updating the market as these discussions continue to advance.”

ENQUIRIES

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Pilot Plant Results

The primary objective of the pilot plant program was to produce a significant mass of representative flake graphite products in order to provide samples to a substantial number of potential offtakers in various industrial sectors. The pilot plant had the added benefit of providing detailed information for plant design and product specifications that can be produced at a large scale for input into the feasibility study.

The program, undertaken at globally recognised SGS Lakefield in Canada, produced over four tonnes of high-quality graphite concentrates from approximately 40 tonnes of representative feed material. The metallurgical response of the Malingunde mineralisation was highly robust with bulk samples across a range of lateral areas and vertical depths producing consistent products, yielding high recoveries averaging >94% with an average carbon grade of 96.6%.

A size distribution range of ~45% to ~70% +150µm of flake graphite was able to be produced. A key area of further interest derived from the program centres around the final attritioning stage of the flowsheet (Figure 2) which plays a significant role in determining the product grade and flake size distribution. This is important as it will allow the Company to optimise its processing plant to produce graphite products to the particular specifications of each separate customer.

Potential industrial customers for Sovereign's graphite products collectively require large variations in product specifications. Required grades vary between 85% and 99% C and product sizing varies across the entire spectrum.

The Company has received a very strong response from potential offtake customers with numerous parties requesting samples for assessment. Sovereign is advanced in discussions with a number of these Tier 1 end users and traders of graphite, particularly in the industrial space and primarily for coarser flake material. To date, 10+ sample batches of the Company's high-quality graphite concentrates has already been despatched to offtakers for their assessment and qualification.



Figure 1: Photographs of the pilot plant in operation at SGS Lakefield

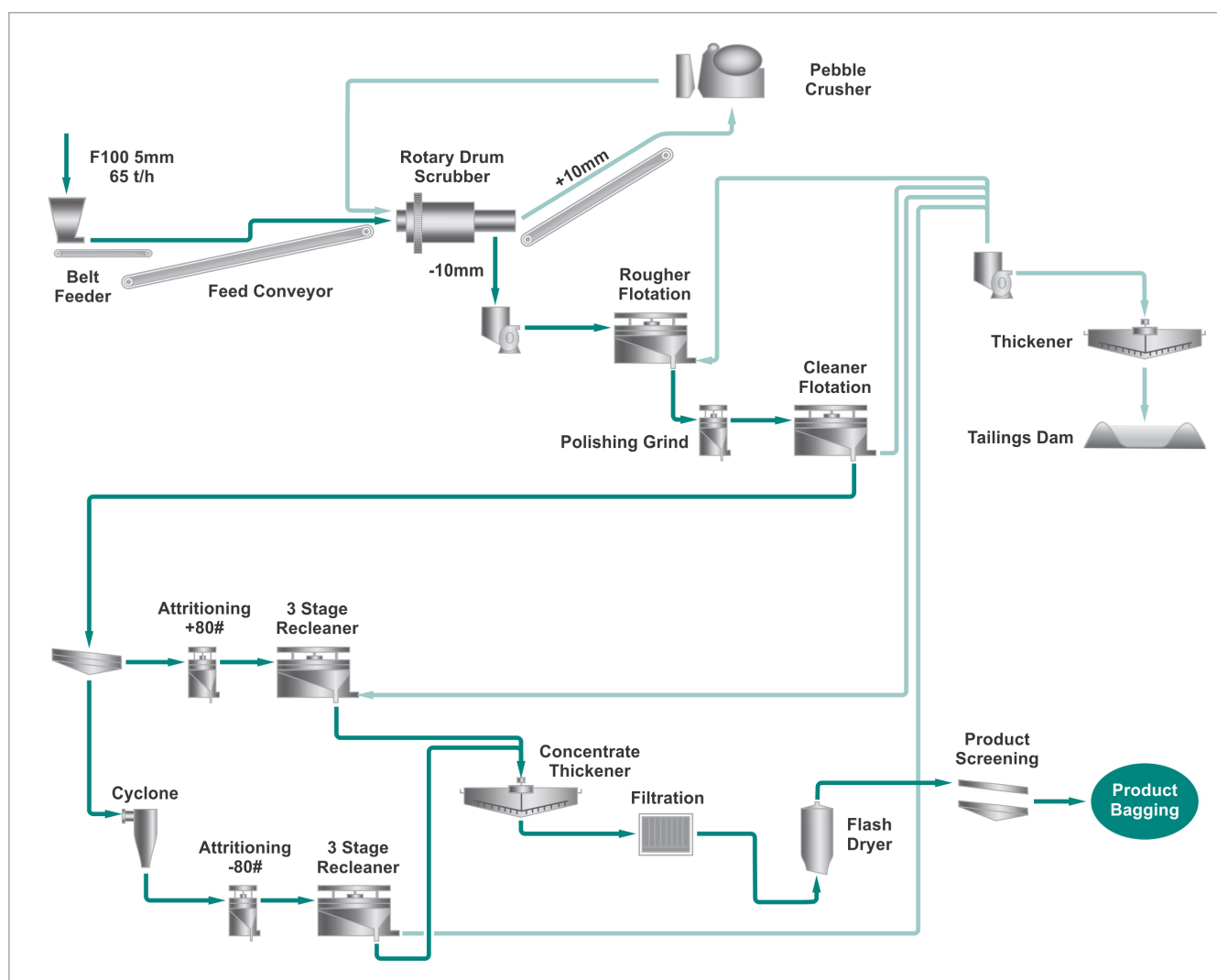


Figure 2: Simplified process flowsheet for Malingunde.

Competent Person Statement

The information in this report that relates to Metallurgical Testwork Results is based on information compiled by Mr Oliver Peters, M.Sc., P.Eng., MBA, who is a Member of the Professional Engineers of Ontario (PEO), a 'Recognised Professional Organisation' (RPO) included in a list promulgated by the ASX from time to time. Mr Peters is a consultant of SGS Canada Inc. ("SGS"). SGS is engaged as a consultant by Sovereign Metals Limited. Mr Peters has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking, to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Peters 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 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 ordinary shares and unlisted options 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.

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: JORC Code, 2012 Edition – Table 1
SECTION 1 - SAMPLING TECHNIQUES AND DATA

Criteria	JORC Code explanation	Hand Auger Drilling 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>	Samples from the 65cm diameter spiral auger drilling were taken on 1 metre intervals. Each sample was manually quartered with each component of the sample separately bagged.
	<i>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</i>	Sample representivity was achieved through manual quartering.
	<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>	Weathering and lithological information logged from the 1-metre auger sample was used to define the compositing intervals.
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>	A custom-made 65cm diameter spiral auger bit was connected to a standard air-core drilling rig, though no air or compressors were used or required for this style of drilling. The auger bit were cleaned between each metre of sampling to avoid contamination.
Drill Sample Recovery	<i>Method of recording and assessing core and chip sample recoveries and results assessed.</i>	Samples are assessed visually for recoveries. Overall, the recovery was very good.
	<i>Measures taken to maximise sample recovery and ensure representative nature of the samples.</i>	The company's trained geologists supervise the spiral auger drilling. No issues with recovery were identified.
	<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>	No bias related to preferential loss or gain of different materials has occurred.
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 individual 1-metre auger intervals are geologically logged, recording relevant data to a set template using company codes. A small representative sample was collected for each 1m interval and placed in appropriately labelled chip tray for future reference.
	<i>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography.</i>	All logging includes lithological features and estimates of basic mineralogy. Logging is generally qualitative.
	<i>The total length and percentage of the relevant intersection logged</i>	100% of samples were geologically logged.
Sub-sampling techniques and sample preparation	<i>If core, whether cut or sawn and whether quarter, half or all core taken.</i>	Not applicable – not core drilling
	<i>If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry.</i>	Samples were manually coned and quartered to obtain representative sub-samples.
	<i>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</i>	This method is considered appropriate for this style of bulk sample drilling.
	<i>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</i>	Samples were manually coned and quartered to obtain representative sub-samples.

Criteria	JORC Code explanation	Hand Auger Drilling Commentary
	<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>	Duplicate samples were obtained and stored on site. The auger bit was cleaned between each metre of sampling to avoid contamination.
	<i>Whether sample sizes are appropriate to the grain size of the material being sampled.</i>	The sample size is considered appropriate for the material sampled and for the pilot plant
Quality of assay data and laboratory tests	<i>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</i>	- The plant was setup using the flowsheet shown in Figure 2. - The metallurgical performance of the circuit was controlled with hourly grab assays and full circuit surveys approximately every 12 hours of operation. - The plant was fed at a rate of approximately 200 kg/hr and treated a total of approximately 40 tonnes of raw ore. - The pilot plant was operated as a fully integrated circuit treating as received ore to final graphite concentrate filter cake and combined tailings - Since the ore yielded a high moisture content, compositing and feeding was done manually at a rate of 10 kg every 3 minutes - The plant treated three different composites namely a life of mine (LOM), Year 1 +2, and a North composite - Although feed grades and visual appearance of the ore was highly variable, the metallurgical response was consistent - The pilot plant campaign confirmed the suitability of the flowsheet that was developed in two laboratory scale programs - The pilot plant campaign produced a total concentrate mass of approximately 4.1 tonnes - Intermediate concentrate and tailings streams have been despatched for vendor testing to confirm equipment selection and sizing - Concentrate samples have been despatched to potential off-take partners for evaluation
	<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 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>	Internal standards were used by SGS Lakefield. No interrogation has been undertaken on these standards in this case.
Verification of sampling & assaying	<i>The verification of significant intersections by either independent or alternative company personnel.</i>	Significant mineralisation intersections were verified by qualified, alternative company personnel.
	<i>The use of twinned holes.</i>	The 8 spiral auger holes were all twins of existing air-core holes.
	<i>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</i>	All data was collected initially 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.
	<i>Discuss any adjustment to assay data.</i>	No assay adjustment has occurred.
Location of data points	<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>	A Trimble R2 Differential GPS was used to pick up the bulk of the hand auger collars containing significant mineralisation. A smaller number of samples were surveyed using a standard hand held GPS. No downhole surveying of the spiral auger holes is completed. Given the vertical nature and shallow depths of the auger holes drill hole deviation is not considered to significantly affect the downhole location of samples.
	<i>Specification of the grid system used.</i>	WGS84 UTM Zone 36 South.
	<i>Quality and adequacy of topographic control.</i>	DGPS pickups are considered adequate topographic control (metres above mean sea level).
Data spacing & distribution	<i>Data spacing for reporting of Exploration Results.</i>	The 8 bulk sample spiral auger holes were drilled in areas designed to represent the life of mine ore feed as identified in the PFS (pre-feasibility study).
	<i>Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral</i>	Not applicable - no Mineral Resource or Ore Reserve estimations are covered by the drilling in this report.

Criteria	JORC Code explanation	Hand Auger Drilling Commentary
	Resource and Ore Reserve estimation procedure(s) and classifications applied. Whether sample compositing has been applied.	Individual 1-metre spiral auger samples were composited into 3 bulk samples representative of life of mine ore feed.
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	No bias attributable to orientation of sampling has been 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 bias attributable to orientation of drilling has been identified.
Sample security	The measures taken to ensure sample security	Samples were stored in secure storage from the time of drilling. The samples were sealed as soon as compositing was completed, and again securely stored awaiting shipment.
Audits or reviews	The results of any audits or reviews of sampling techniques and data	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	Explanation	Commentary																																													
Mineral tenement & 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 environment settings.	The Company owns 100% of 7 Exclusive Prospecting Licences (EPLs) in Malawi. EPL0355 renewed in 2019 for 2 years, EPL0372 renewed in 2018 for 2 years and EPL0413 renewed in 2017 for 2 years. EPL0492 and EPL0528 were granted in 2018 for an initial period of three years (renewable). EPL0537 and EPL0545 were granted in 2019 for an initial period of three years (renewable).																																													
	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.	The tenements are in good standing and no known impediments to exploration or mining exist.																																													
Exploration done by other parties	Acknowledgement and appraisal of exploration by other parties.	No other parties were involved in exploration.																																													
Geology	Deposit type, geological setting and style of mineralisation	The graphite deposit type could be termed a weathered paragneiss. Graphite at Malingunde occurs in a mostly topographically flat area west of Malawi's capital known as the Lilongwe Plain where a deep tropical weathering profile is preserved. A typical profile from top to base is generally soil ("SOIL" 0-1m) ferruginous pedolith ("FERP", 1-4m), mottled zone ("MOTT", 4-7m), pallid saprolite ("PSAP", 7-9m), saprolite ("SAPL", 9-25m), saprock ("SAPR", 25-35m) and fresh rock ("FRESH" >35m).																																													
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 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	<table><tr><th>Hole ID</th><th>Easting</th><th>Northing</th><th>RL</th><th>Depth</th></tr><tr><td>MGSA001</td><td>571575</td><td>8436200</td><td>1125</td><td>18.3</td></tr><tr><td>MGSA002</td><td>571330</td><td>8436399</td><td>1129</td><td>24</td></tr><tr><td>MGSA003</td><td>572775</td><td>8434999</td><td>1088</td><td>18</td></tr><tr><td>MGSA004</td><td>570751</td><td>8437000</td><td>1132</td><td>21</td></tr><tr><td>MGSA005</td><td>570610</td><td>8437000</td><td>1133</td><td>19</td></tr><tr><td>MGSA006</td><td>570621</td><td>8436900</td><td>1135</td><td>23</td></tr><tr><td>MGSA007</td><td>572575</td><td>8435110</td><td>1096</td><td>7</td></tr><tr><td>MGSA008</td><td>570531</td><td>8437097</td><td>1132</td><td>21</td></tr></table> All holes were vertical. Grid system is WGS 84, Zone 36 South.	Hole ID	Easting	Northing	RL	Depth	MGSA001	571575	8436200	1125	18.3	MGSA002	571330	8436399	1129	24	MGSA003	572775	8434999	1088	18	MGSA004	570751	8437000	1132	21	MGSA005	570610	8437000	1133	19	MGSA006	570621	8436900	1135	23	MGSA007	572575	8435110	1096	7	MGSA008	570531	8437097	1132	21
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	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	No information has been excluded.																																													

Criteria	Explanation	Commentary
Data aggregation methods	<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>	No grade weighting or lower or upper cuts were used.
	<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>	Not applicable to these bulk metallurgical results.
	<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.
Relationship between mineralisation widths & intercept lengths	<i>These relationships are particularly important in the reporting of Exploration Results.</i>	It is considered that the mineralisation lies in laterally extensive, near surface, moderate to shallowly dipping flat bodies in areas where the entire weathering profile is preserved and not significantly eroded.
	<i>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</i>	Not applicable to this near-surface style of mineralisation and drilling style.
	<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>	Downhole widths approximate true widths, though all mineralisation currently remains open at depth.
Diagrams	<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>	Refer to ASX Announcement titled 'Bulk Sample Drilling for Pilot Plant Commences at Malingunde dated 28 August 2018.
Balanced reporting	<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>	All results have been reported in this report and included in ASX Announcement titled 'Bulk Sample Drilling for Pilot Plant Commences at Malingunde dated 28 August 2018.
Other substantive exploration data	<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 other substantive exploration data is available.
Further work	<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>	Further work involves working with numerous potential off-take partners to understand their product specifications required. This information will then feed in to the final plant design to allow as much product specification flexibility as possible in order to meet customer needs.
	<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>	Refer to diagrams in the body of this report.