

ASX Announcement

15 April 2019

Diamond Drilling Update at Lac Rainy Graphite Project

Highlights:

- Metals Australia has successfully completed five drill holes in the maiden diamond drilling campaign at the Lac Rainy Graphite Project, located in Quebec, Canada – **drilling of the sixth hole is underway and is designed to step out along strike**
- All drill holes completed to date intersected multiple thick zones of graphite – **samples are currently being prepared ready for transport to the laboratory for assay**
- DDH LR19-01 intersected multiple zones of graphite, including:
 - **4.0m graphite mineralised intersection** (apparent thickness) at a depth from 3.0m to 7.0m (assays pending)
 - **12.5m graphite mineralised intersection** (apparent thickness) at a depth from 34.0m to 46.5m (assays pending)
 - **54.8m graphite mineralised intersection** (apparent thickness) at a depth from 76.0m to 130.8m (assays pending)
- DDH LR19-02 intersected multiple zones of graphite and remains **open at depth**, including:
 - **9.7m graphite mineralised intersection** (apparent thickness) at a depth from 23.0m to 32.7m (assays pending)
 - **30.0m graphite mineralised intersection** (apparent thickness) at a depth from 69.0m to 99.0m (end of hole) (assays pending – hole ended in mineralisation)
- DDH LR19-03 intersected multiple zones of graphite and remains **open at depth**, including:
 - **16.5m graphite mineralised intersection** (apparent thickness) at a depth from 9.5m to 26.0m (assays pending)
 - **20.4m graphite mineralised intersection** (apparent thickness) at a depth from 50.6m to 71.0m (assays pending)
 - **23.0m graphite mineralised intersection** (apparent thickness) at a depth from 88.0m to 111.0m (end of hole) (assays pending – hole ended in mineralisation)
- DDH LR19-04 intersected multiple zones of graphite and remains **open at depth**, including:
 - **36.3m graphite mineralised intersection** (apparent thickness) at a depth from 15.7m to 52.0m (assays pending)
 - **41.0m graphite mineralised intersection** (apparent thickness) at a depth from 79.0m to 120.0m – **finishing in mineralisation** (end of hole) (assays pending – hole ended in mineralisation)
- DDH LR19-05 intersected multiple zones of graphite and remains **open at depth**, including:
 - **29.8m graphite mineralised intersection** (apparent thickness) at a depth from 10.4m to 40.2m (assays pending)
 - **16.5m graphite mineralised intersection** (apparent thickness) at a depth from 55.6m to 72.1m (assays pending)
 - **21.0m graphite mineralised intersection** (apparent thickness) at a depth from 99.0m to 120.0m – **finishing in mineralisation** (end of hole) (assays pending – hole ended in mineralisation)

Graphite exploration and development company, Metals Australia Ltd (ASX: **MLS**) is pleased to provide shareholders with an update on the progress that has been achieved with the maiden diamond drilling program at the Company's 100%-owned Lac Rainy Graphite Project, located in Quebec, Canada.

Commenting on the progress achieved, Director of Metals Australia, Mr Gino D'Anna stated:

"The Company has successfully completed its first 5 diamond drill holes at Lac Rainy, focused on the high-grade near surface Lac Carheil Prospect. The graphite intersections received from these initial holes exceed our expectations, given the apparent thickness and near surface nature. Magnor continues to excel in the field with its drillers completing on average over 100m of drilling per single 12-hour shift. The drill holes have been designed to test the depth of the graphite mineralisation as well as the strike potential of the deposit.

We believe that Lac Rainy is host to a potentially world-class high-grade natural flake graphite deposit and recent metallurgical testing has demonstrated its ability to produce a high purity, large flake and high carbon graphite concentrate ideal for high-end technical applications. We look forward to providing shareholders with further updates."

The image below provides an aerial view of the camp set up and core shack on site at the Lac Rainy Graphite Project adjacent to a privately-owned lodge which is currently being rented by the Company as part of the campaign:



Figure 1 (above): Aerial view of the camp set up and core shack on site at the Lac Rainy Graphite Project adjacent to a privately-owned lodge which is currently being rented by the Company as part of the campaign

The image below illustrates a technical crew member and the head geologist overlooking the drill core in the core boxes at DDH LR19-05:



Figure 2 (left): Technical crew member and the head geologist overlooking the drill core in the core boxes at DDH LR19-05, Lac Rainy Graphite Project

The image below illustrates a close-up of the main graphitic zone encountered in DDH LR19-05, representing an intact graphite mineralised intersection (*top of core box*) and a fractured / broken graphite mineralised intersection (*bottom of core box*):



Figure 3 (right): Close-up of the main graphitic zone encountered in DDH LR19-05, illustrating a solid drill core graphite intersection (*top of core box*) and a fractured / broken graphite intersection (*bottom of core box*), Lac Rainy Graphite Project

The diamond drilling program at the Lac Rainy Graphite Project continues and the Company will provide further updates to its Shareholders as they become available.

About the Lac Rainy Graphite Project

The Lac Rainy Graphite Project is located in one of the premier graphite geological regions of Quebec. It sits approximately 22 km south-west of the historic mining town of Fermont and 260 km north-northeast of the city of Sept-Îles.

The Lac Rainy Graphite Project is approximately 15 km east of Route 389, a paved highway which travels north to Fermont. These road networks link the Lac Rainy Graphite Project with the major ports along the St Lawrence River in Quebec offering the Company a route to the seaborne market as well as the North American and South American markets.

The Lac Rainy Graphite Project covers an area of more than 4,600 hectares representing 88 mineral claims and is contiguous with Focus Graphite's Property to the southwest, which hosts the Lac Knife Graphite Deposit, containing a Measured and Indicated Resource of 9.576 Mt @ 14.77% Cg and an Inferred Resource of 3.102 Mt @ 13.25% Cg at a 3.0% Cg cut-off.

The global transition to renewable energy and adoption of lithium-ion batteries as a means of energy storage places significant focus on high-value raw materials, such as graphite, lithium, cobalt, nickel, copper and manganese. In the long term, Roskill (an independent research organization) highlights the continuing closure of processing plants in China will place upward pressure on graphite prices.

ENDS

For more information, please contact:

Gino D'Anna
Director
Metals Australia Ltd
Phone: +61 400 408 878

Martin Stein
Company Secretary
Metals Australia Ltd
Phone: +61 8 9481 7833

Caution Regarding Forward-Looking Information

This document contains forward-looking statements concerning Metals Australia. Forward-looking statements are not statements of historical fact and actual events and results may differ materially from those described in the forward-looking statements as a result of a variety of risks, uncertainties and other factors. Forward-looking statements are inherently subject to business, economic, competitive, political and social uncertainties and contingencies. Many factors could cause the Company's actual results to differ materially from those expressed or implied in any forward-looking information provided by the Company, or on behalf of, the Company. Such factors include, among other things, risks relating to additional funding requirements, metal prices, exploration, development and operating risks, competition, production risks, regulatory restrictions, including environmental regulation and liability and potential title disputes.

Forward looking statements in this document are based on the company's beliefs, opinions and estimates of Metals Australia as of the dates the forward-looking statements are made, and no obligation is assumed to update forward looking statements if these beliefs, opinions and estimates should change or to reflect other future developments.

Competent Person Declaration

The information in this announcement that relates to Exploration Results is based on information compiled by Mr. Jean-Paul Barrette P.Geo, B.Sc. Mr Barrette is Project Geologist with Magnor Exploration Inc. and a consultant to Metals Australia Limited. Mr Barrette and is a member of the Ordre des géologues du Québec (OGQ) with member number OGQ #619. Mr. Barrette has sufficient experience (34 years) 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. Barrette consents to the inclusion in the report of the matters based on their information in the form and context in which it appears.

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.

Appendix A: Summary Coordinates of DDH LR19-01 to DDH LR19-05 (inclusive)

Hole ID	Easting	Northing	Dip	Azimuth	Length
DDH LR19-01	631595	5829243	-50°	30°	200m
DDH LR19-02	631638	5829228	-45°	30°	100m
DDH LR19-03	631684	5829206	-50°	30°	100m
DDH LR19-04	631735	5829183	-55°	30°	100m
DDH LR19-05	631759	5829151	-50°	30°	100m

JORC Code, 2012 Edition – Table 1

Section 1 Sampling Techniques and Data

Criteria	JORC Code explanation	Commentary
Sampling techniques	<ul style="list-style-type: none"> Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling. Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used. Aspects of the determination of mineralisation that are Material to the Public Report. In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information. 	<p>Only limited drilling has been completed to date by the Company. Assays are still pending and samples are currently being prepared for assay by the laboratory. Sufficient QA/QC procedures are being followed with industry standard blanks and duplicate samples being created.</p> <p>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 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.</p> <p>Diamond Core Sampling: For diamond core samples, certified sample standards were added as every 25th 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.</p> <p>Rock samples are comprised of grabs and thus represent point locations defined by a small area typically less than 0.5m². A best effort was made to collect as much fresh material as practical and avoid or minimize the inclusion of weathered material in the sample. Hand tools were used to clear the sampling site and remove weathered material as practical before sampling.</p> <p>Channels were cut of the freshest material practical and are considered more representative than the grab samples for that particular location.</p> <p>Samples are considered representative of the site targeted, followed best industry practises as described above, with sufficient material collected per sample.</p> <p>Samples submitted for assay typically weigh 2-3 kg or more. Channel samples may be considered more representative than grab samples as more fresh material may be collected, they report an interval and not a point, and are larger samples. Channel samples are typically several times larger in size that grab samples, adding to their more representative nature.</p>
Drilling techniques	<ul style="list-style-type: none"> Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc). 	<p>Only limited drilling has been completed to date. The drilling program being completed by the Company is Diamond.</p>

Criteria	JORC Code explanation	Commentary
Drill sample recovery	<ul style="list-style-type: none"> Method of recording and assessing core and chip sample recoveries and results assessed. Measures taken to maximise sample recovery and ensure representative nature of the samples. Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material. 	Diamond core recoveries are 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.
Logging	<ul style="list-style-type: none"> Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies. Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography. The total length and percentage of the relevant intersections logged. 	<p>All rock and channel samples were described to industry standard levels with rock type, modal mineralogy, grain size, and other pertinent observations noted. Descriptions are qualitative in nature.</p> <p>Geological logging is carried out on all drill holes with lithology, alteration, mineralisation, structure and veining recorded.</p>
Sub-sampling techniques and sample preparation	<ul style="list-style-type: none"> If core, whether cut or sawn and whether quarter, half or all core taken. If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry. For all sample types, the nature, quality and appropriateness of the sample preparation technique. Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples. Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling. Whether sample sizes are appropriate to the grain size of the material being sampled. 	<p>Sample preparation follows industry best practice standards and is conducted by internationally recognised laboratories - ALS Laboratories Ltd in Val d'Or, Quebec. Code RX1-graphite was completed as preparation. Samples are crushed to 80% passing 10 mesh, riffle split (250 g), and pulverized to 95% passing 105 micron.</p> <p>Analysis used ALS packages Code 4F-C,S, and 4F-C-Graphite using a graphite specific preparation (RX1- Graphite). Total carbon as well as graphitic carbon are the primary deliverables.</p> <p>Sampling techniques utilized, as described above, ensure adequate representativeness and sample size. As is early exploration, industry standard sampling techniques were followed with fresh material targeted for collection as practical</p> <p>No blanks or standards were submitted by the company with laboratory blanks, standards, and duplicates relied upon, with results reviewed by the companys consultants and found to be satisfactory with no material concerns.</p> <p>Sample size (2-3 kg) accepted as general industry standard for grab samples and is sufficient to provide a representative sample size for the location being sampled.</p>
Quality of assay data and laboratory tests	<ul style="list-style-type: none"> The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total. For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc. Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established. 	<p>Internal laboratory QAQC relied upon with laboratory blanks, standards, and duplicates relied upon, with results reviewed by the companies consultants and found to be satisfactory with no material concern.</p> <p>No company blanks, standards, or duplicates submitted for analysis</p>
Verification of sampling and assaying	<ul style="list-style-type: none"> 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 	Assay data is reported as received with no data adjustment. Data is verified by the Company's consultants prior to disclosure.

Criteria	JORC Code explanation	Commentary
	<p><i>(physical and electronic) protocols.</i></p> <ul style="list-style-type: none"> • <i>Discuss any adjustment to assay data.</i> 	
Location of data points	<ul style="list-style-type: none"> • <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> • <i>Specification of the grid system used.</i> • <i>Quality and adequacy of topographic control.</i> 	Handheld GPS used for location of sample points using local UTM grid, Zone 19. Such methods have a typically accuracy of 1-3 m.
Data spacing and distribution	<ul style="list-style-type: none"> • <i>Data spacing for reporting of Exploration Results.</i> • <i>Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.</i> • <i>Whether sample compositing has been applied.</i> 	<p>Only individual sample data reported as received by laboratory for grab samples, with channel samples reported individually via Appendix A, as well as composites in the highlight section of the NR.</p> <p>Insufficient data to establish resources</p>
Orientation of data in relation to geological structure	<ul style="list-style-type: none"> • <i>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</i> • <i>If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.</i> 	<p>Grab samples reflective of point locations with sufficient samples collected along strike to assist with interpretation of area and potential. Channel samples attempt to give an indication of grade over width.</p> <p>Only limited drilling has been completed to date.</p>
Sample security	<ul style="list-style-type: none"> • <i>The measures taken to ensure sample security.</i> 	Industry standard chain of custody followed, with samples dropped off at shipping company by field manager, shipping with tracking number, and received direct by the lab, with notification of receipt the day samples received.
Audits or reviews	<ul style="list-style-type: none"> • <i>The results of any audits or reviews of sampling techniques and data.</i> 	None completed by third parties. The Company's consultants vetted the database internally.

Section 2 Reporting of Exploration Results

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	<ul style="list-style-type: none"> Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings. The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area. 	<p>Metals Australia Limited is the 100% owner of the Lac Rainy Graphite Project, pursuant to the binding acquisition agreement.</p> <p>There are no other material issues affecting the tenements.</p> <p>Quebec Lithium Limited, a wholly owned subsidiary of Metals Australia, is the owner of 100% of the abovementioned graphite project and ownership of the individual CDC claims is with Quebec Lithium Limited.</p> <p>All tenements are in good standing and have been legally validated by a Quebec lawyer specialising in the field.</p>
Exploration done by other parties	<ul style="list-style-type: none"> Acknowledgment and appraisal of exploration by other parties. 	<p>No modern exploration has been conducted by other parties.</p> <p>Government mapping records multiple graphitic carbon bearing zones within the project areas but no other data is available.</p>
Geology	<ul style="list-style-type: none"> Deposit type, geological setting and style of mineralisation. 	<p>Lac Rainy Graphite Project</p> <p>The Lac Rainy graphite project is located within close proximity to Focus Graphite's Lac Knife Project, which is considered a good analogue for mineralization style at Lac Rainy with the same general rock types present.</p> <p>The Lac Rainy and Lac Crheil graphite prospects were first discovered in 1989 and has been subject to some exploration over that time, however previous exploration was not conducted in a systematic manner and was focused more on the iron potential of the region which has meant that the true mineralisation and potential of the Lac Rainy Est graphite project has not been fully established.</p> <p>The Lac Rainy graphite project is contiguous with the Lac Knife Graphite Project which is owned by Focus Graphite. The Lac Knife Project hosts the Lac Knife Deposit.</p> <p>The Lac Knife Graphite Deposit owned by Focus Graphite (which is located less than 4 km south-west of the Project border) and hosts a Measured and Indicated Resource of 9.576 Mt @ 14.77% Cg and an Inferred Resource of 3.102 Mt @ 13.25% Cg at a 3.0% Cg cut-off. (Note: Inferred Resources are considered too geologically speculative to have mining and economic considerations applied to them and to be categorized as Mineral Reserves)</p> <p>The Feasibility Study completed by Met-Chem Canada Inc. (released on 8 August 2014) on the Lac Knife Graphite Deposit indicates that the Lac Knife Graphite Deposit has the potential to become one of the lowest-cost, highest-margin producers of graphite in the</p>

Criteria	JORC Code explanation	Commentary
		<p>world.</p> <p>Refer to http://www.focusgraphite.com/wp-content/uploads/largeReport/Lac-Knife-Feasibility-Study-Technical-Report-August-2014.pdf for further information in relation to the Feasibility Study at the Lac Knife graphite project.</p> <p>Graphite mineralisation is set in migmatized biotite-bearing quartz-feldspar gneiss belonging to the Nault Formation of the lower Proterozoic Gagnon Group.</p> <p>According to the Quebec Ministry of Natural Resources, where this gneissic unit is sheared, brecciated and silicified, coarse graphite flakes and associated sulphide minerals make up 5% to 10% of the rock, with up to 20% or more in the more brecciated zones.</p> <p>Fuchsite and other iron-rich micas accompany the graphite and sulphide mineralization in the more silicified horizons.</p>
Drill hole Information	<ul style="list-style-type: none"> • A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes: <ul style="list-style-type: none"> ○ easting and northing of the drill hole collar ○ elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar ○ dip and azimuth of the hole ○ down hole length and interception depth ○ hole length. • If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case. 	Not Applicable
Data aggregation methods	<ul style="list-style-type: none"> • In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated. • Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail. • The assumptions used for any reporting of metal equivalent values should be clearly stated. 	<p>No data aggregation with grab samples reported as point location data. Weighted compositing methods applied to channels</p> <p>No metal equivalents reported</p> <p>No intercepts reported</p>
Relationship between mineralisation widths and intercept lengths	<ul style="list-style-type: none"> • These relationships are particularly important in the reporting of Exploration Results. • If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. • If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known'). 	Not Applicable with grab samples representing surface point locations. Channels samples by nature report grade over width with best efforts to cross strike of unit. True widths not known.
Diagrams	<ul style="list-style-type: none"> • 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. 	Several maps included in body of news release

Criteria	JORC Code explanation	Commentary
Balanced reporting	<ul style="list-style-type: none"> 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. 	Results for all sampling submitted for assay are listed in Appendix A attached to the body of this report.
Other substantive exploration data	<ul style="list-style-type: none"> 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. 	All meaningful and material data is reported.
Further work	<ul style="list-style-type: none"> The nature and scale of planned further work (eg 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. 	<p>Detailed geochemistry and geology mapping to determine trends of known mineralised zones and to delineate other Cg anomalies.</p> <p>Drilling.</p>