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ASX RELEASE

24 April 2018

Activity Report for the Quarter ended March 2018

Lithium Power International Limited (ASX: LPI) ("LPI" or "the Company") is pleased to submit its quarterly Activity Report for the period ended 31 March 2018.

HIGHLIGHTS

- Lithium carbonate pilot plant results produced from Salar de Maricunga brine achieved a purity level of 99.9% from experienced process company Veolia. The samples had significantly fewer impurities than the targeted impurity levels. These results are in addition to the previous announcement of 19 February 2018, where initial lithium carbonate pilot plant results had a purity of 99.4%, by recognised chemical company GEA.
- The production results exceed battery grade lithium carbonate requirements and demonstrate a viable, cost-effective process. Work to optimise this process, as an input to the project's definitive feasibility study (DFS), is continuing.
- The Maricunga JV received a Chilean Nuclear Energy Commission (CCHEN) permit for the production and export of lithium from the grandfathered, old mining code properties of Cocina, San Francisco, Salamina and Despreciada. It is important to understand that this permit covers part of the resource, applying to the old mining code properties only.
- The permit lasts 30 years and allows the extraction of 472,000 tonnes of lithium carbonate equivalent (LCE) to the base of the current drilling to 200 m. The CCHEN permit can be increased to approve an additional quota based on future deeper drilling if additional resources are identified.
- A special lithium operations permit (CEOL) is in the application process for the exploitation of lithium from the Litio properties, which are covered under the new mining code.
- LPI brought forward its final three Maricunga JV earn-in payments of US\$7.53m, completing its earn in for 50% of the project. Funds invested by the Company now total US\$27.2m.
- The JV is finalising the Environmental Impact Assessment due for submission in 2Q 2018. Infrastructure and engineering studies are continuing for the DFS due in 4Q 2018.

MARICUNGA – CHILE CHILE JOINT VENTURE COMPANY – MINERA SALAR BLANCO (MSB)

The Maricunga joint venture project (the "Project") is operated under the Joint Venture Company, Minera Salar Blanco ("MSB"). LPI owns 50% of MSB. LPI holds the Chairman position and counts for 50% of the MSB board and 50% of the operating technical team.

The Project is located in northern Chile, home to the largest and highest-grade lithium brine mines in the "Lithium Triangle" (Figure 1) and source of the world's lowest cost lithium production. The Project is regarded as one of the highest quality pre-production lithium brine projects globally. In 2016-17 drilling expanded the project global resource across the properties to 2.15 Mt LCE to a depth of only 200 m, with potential for significant depth extension of the lithium resource.





PILOT PLANT - LITHIUM PROCESS OPTIMISATION

Lithium carbonate process optimisation is being carried out by two major global equipment manufacturers and developers, GEA in Germany and Veolia in the USA. Both companies have independently produced lithium carbonate that exceeds battery grade specifications. On 19 February 2018, LPI announced that GEA had produced lithium carbonate with a purity of 99.4%. After slight process modifications developed by the MSB technical team, the production of 99.9% purity by Veolia was achieved and it was announced on 4 April 2018 (Figure 2). These outcomes have confirmed the viability of the lithium production process and the purity of product. Process optimisation will be ongoing in parallel with the project's Definitive Feasibility Study.

The initial part of the process uses several crystallization techniques to remove primary contaminants such as calcium in tachyhydrite and calcium chloride. A second part of the process involves simplified and optimised brine polishing to remove remaining boron, calcium and magnesium from the concentrated lithium brine (Table 1). The Project is one of a small number of pre-production lithium projects that has successfully produced high purity lithium carbonate.



Figure 2: Lithium carbonate samples from Veolia

Table 1: Analysis of lithium carbonate sample from Veolia and the target criteria

Analytical Parameter		Units	Target	Final Product
Veolia Sample No.				244-27-01
Lithium Carbonate Sodium	Li ₂ CO ₃ Na	% maa	99.2 600	99.9 385
Iron Calcium	Fe	ppm	10	<1 78
Sulfate Potassium	SO ₄ K	ppm	300	<100
Chloride	Cl	ppm	100	<100
Chromium	Cr	ppm	10	<1
Copper	Cu	ppm ppm	10	<1
Lead Aluminum	Pb Al	ppm ppm	10 10	<1 <10
Zinc Boron	Zn B	ppm ppm	10 10	<1 <5

Note: Results provided by Veolia Water Technologies, these are on a Dry Basis, with exclusion of Loss of Ignition. See Appendix 1 and 2.

LITHIUM PRODUCTION PERMITTING PROCESS

During the quarter MSB was awarded a permit for the production and marketing of lithium from the grandfathered "old mining code" properties held by the MSB. This permit covers the production of 472,868 tonnes of lithium carbonate equivalent for up to 30 years. The Chilean Nuclear Energy Commission (CCHEN), which awarded the permit, can increase the extraction allowance when additional deeper resources below 200 m are proved up by the company. It is important to understand that this permit only covers part of the resource, applying to the old mining code properties only.

MSB is in the process of applying for a lithium extraction permit for the Litio properties owned by the joint venture, which are subject to the new mining code. This permit (CEOL) will permit exploitation of the Litio properties held by the company. Due to the differences in the two mining codes, these permits are issued differently.

During the quarter the Chilean government announced the granting of a CEOL to a subsidiary of the government copper mining company, Codelco, in the Maricunga salar. MSB is seeking to clarify the relationship between this permit issued to Codelco and the Litio properties, which are owned 100% by the Maricunga joint venture, with no ownership by or relationship to Codelco, CORFO or any other government agency.

INCREASED JV OWNERSHIP

During the quarter, LPI brought forward payments totalling US\$7.53m to earn 50% in the Maricunga joint venture. Future capital will be contributed to MSB on a proportional shareholder basis. The Company retains a strong cash position after these payments (see the quarterly Appendix 5B for details). Following the excellent results from the project Preliminary Economic Assessment (PEA), LPI decided to accelerate the payments to continue advancing the project to Definitive Feasibility Study (DFS) within Q4 2018.

OFF-TAKE AND PROJECT FUNDING

The Company advises that the non-binding Memorandum of Understanding with Fulin Group that was disclosed to ASX in November 2017 has recently expired. The Company remains in discussions with Fulin Group and regularly receives unsolicited inquiries from other potential offtake, project funding and/or construction funding partners as part of its normal business operations.

However, the Company does not have the present need, or intention, to enter into arrangements with funding and/ or offtake partners, as previously disclosed to the ASX. The joint venture is fully funded through to the final investment decision at Maricunga.

CHANGE OF GOVERNMENT IN CHILE

Further to the presidential election held in Chile in December 2017, a new centre- right government under new President, Mr. Sebastian Piñera, was sworn into office in March 2018, for a four-year term.

The consensus both within Chile and internationally is that this new government will continue to encourage the growth of the economy and the implementation of social reform for the benefit of the people of Chile. In addition, it is predicted that public, private and foreign investment will further stimulate the economy and therefore the government will likely be pro-mining and international investment.

WESTERN AUSTRALIA GREENBUSHES – SOUTH WEST, WESTERN AUSTRALIA

The 100% owned Greenbushes tenements contain large strike lengths of the same rock suite that hosts the adjacent Talison Greenbushes Lithium mine, the world's largest lithium producer. The company is taking a systemic exploration approach to identify prospective areas that can be explored in more detail. There is little or no outcropping pegmatite mineralisation within the tenements, so a different approach has been developed to identify the potential host rock sequence that could host pegmatite mineralisation.

Exploration this quarter at Greenbushes consisted of planning a large scale surface sampling program across both of the tenements held by LPI. This program will be based on a Minerals Systems approach where prospective areas are sampled across their strike throughout the properties. The results will focus additional surface activities and will form the basis of a potential future drilling program. The Company has been contacting land holders throughout the area regarding surface access to undertake the program.

PILGANGOORA - PILBARA, WESTERN AUSTRALIA

The 100%-owned granted Pilgangoora tenement is situated adjacent to the Pilbara Minerals and Altura Mining lithium pegmatite deposits. LPI is exploring for lithium pegmatites in a continuation of the same sequence of rocks immediately west of these companies.

There was limited activity in the Pilbara during the quarter due to the wet season and subsequent cyclone activity. Further exploration is planned in 2018 after the wet season as recent exploration has concentrated on the Greenbushes program.

TABBA TABBA & STRELLEY PROJECTS

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WESTERN AUSTRALIAN OWNERSHIP STRATEGY

The Company is considering a range of options regarding its Western Australian assets, including their potential disposal, joint ventures or spinning them out into a new listed vehicle. Approaches have recently been received from two potential transaction partners. The company from time to time engages in confidential discussions with other parties. No determination has been made by the Board with respect to any potential transaction, or change in ownership structure.

ARGENTINA CENTENARIO – SALTA PROVINCE, ARGENTINA

LPI has worked with Centenario Lithium Ltd, the purchaser of the Centenario properties, (the "Transaction") to submit exploration environmental permits for future activities, including drilling. Further activity is anticipated in 2018, commencing with a geophysical survey to map the extent of the brine body and to assess the thickness of sediments that host brine.

Completion of the Transaction is due on or before 30 April 2018. Completion requires the receipt of A\$3m cash or a total value of A\$3.25m in a combination of cash and shares before completion date for 100% ownership of the Centenario project to be transferred to Centenario Lithium Ltd.

CORPORATE UPDATE

Appendix 5B

The Appendix 5B quarterly cashflow report for the quarter ended 30 March 2018, is submitted separately.

Following the successful capital raise in Q4 2017 and the final earn in payments made to MSB during this quarter, the Company had a cash balance of A\$24.16m at March 31, 2018.

This amount is currently held in Company bank accounts in Australia, Chile and Argentina in Australian dollars, US dollars, Chilean pesos or Argentine pesos. The Australian dollar equivalents are converted at the closing foreign exchange spot rate.

Funds within the Maricunga Joint Venture at the end of the quarter ended, totalled US\$8.38m. These were provided by the Company as part of the Joint Venture Investment Agreement and include the brought forward payment of US\$7.53m made this quarter.

Capital Structure

There was a change to the Capital Structure during the Quarter with 5 million Unlisted Options being issued.

The Capital Structure at the end of the Quarter is as follows:

- 260.7 million Ordinary Shares on issue,
- 34.6 million Listed Options on issue at 55cps; and
- 35.3 million Unlisted Options on issue averaging 25cps.

Audited Interim Report

The Interim financial report for the 6 months ended 31 December 2017 was approved by the Company's auditors and released on 13 March 2018.

APPENDIX 1

Competent Person's Statement

MARICUNGA LITHIUM BRINE PROJECT

The information contained in this ASX release relating to the chemical process has been approved by Mr Peter Ehren. Mr Ehren is a Process Engineer and Member of the Australian Institute of Mining and Metallurgy (AusIMM). Mr Ehren has sufficient experience that is relevant to the style of mineralisation and type of mineral 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. He is also a "Qualified Person" as defined by Canadian Securities Administrators' National Instrument 43-101.

Mr Ehren is an employee of Ehren Gonzalez Limitada and an independent consultant to Lithium Power International and Minera Salar Blanco. Mr Ehren consents to the inclusion in this announcement of this information in the form and context in which it appears. The information in this announcement is an accurate representation of the available data from development of the lithium extraction process from brine at the Maricunga project.

Additional details are provided in the JORC Table 1 provided below. The reader is further referred to information provided by the company in the updated resource on the 12th July 2017 and on the project Preliminary Economic Assessment (PEA) on the 5th January 2018.

APPENDIX 2

JORC Code, 2012 Edition Table 1 Report: Maricunga Salar

SECTION 1 - SAMPLING TECHNIQUES AND DATA

Criteria	JORC Code explanation	Considerations for Mineral Brine Projects
Sampling techniques	 Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling. Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used. Aspects of the determination of mineralisation that are Material to the Public Report. In cases where 'industry standard' work has been done this would be relatively simple (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. 	 Drill cuttings were taken during rotary drilling. These are low quality drill samples, but provide sufficient information for lithological logging and for geological interpretation. Drill core was recovered in lexan polycarbonate liners and plastic bags alternating every 1.5 m length core run during the sonic drilling. Brine samples were collected at 6 m intervals during drilling (3m in 2011 drilling). This involved purging brine from the drill hole and then taking a sample corresponding to the interval between the rods and the bottom of the hole. Brine samples below 204 m in hole S19 were taken every 12 m. Fluorescein tracer dye was used to distinguish drilling fluid from natural formation brine. The brine sample was collected in a clean plastic bottle and filled to the top to minimize air space within the bottle. Each bottle was marked with the sample number and details of the hole.



Criteria	JORC Code explanation	Considerations for Mineral Brine Projects
Drilling techniques	 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). 	 Rotary drilling (using HWT size casing) This method was used with natural formation brine for lubrication during drilling, to minimize the development of wall cake in the holes that could reduce the inflow of brine to the hole and affect brine quality. Rotary drilling allowed for recovery of drill cuttings and basic geological description. During rotary drilling, cuttings were collected directly from the outflow from the HWT casing. Drill cuttings were collected over two metre intervals in cloth bags, that were marked with the drill hole number and depth interval. Sub-samples were collected from the cloth bag by the site geologist to fill chip trays. Sonic drilling (M1A, S2, S18 and S20) produced cores with close to 100% core recovery. This technique uses sonic vibration to penetrate the salt lake sediments and produces cores without the rotation and drilling fluid cooling of the bit required for rotary drilling – which can result in the washing away of more friable unconsolidated sediments, such as sands.
Drill sample recovery	 Method of recording and assessing core and chip sample recoveries and results assessed. Measures taken to maximise sample recovery and ensure representative nature of the samples. 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. 	 Rotary drill cuttings were recovered from the hole in porous cloth bags to retain drilling fines, but to allow brine to drain from the sample bags (brine is collected by purging the hole every 6m and not during the drilling directly, as this uses recirculated brine for drilling fluid). Fluorescein tracer dye was used to distinguish drilling fluid from natural formation brine. Sonic drill core was recovered in alternating 1.5m length lexan tubes and 1.5m length tubular plastic bags.
Geologic Logging	 Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies. Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography. The total length and percentage of the relevant intersections logged. 	 Rotary (using HWT size casing) drilling was carried out from the collection of drill cuttings for geologic logging and for brine sampling. Drill cuttings were logged by a geologist. Sonic holes are logged by a geologist who supervised cutting of samples for porosity sampling then splits the plastic tube and geologically logs the core.





Criteria	JORC Code explanation	Considerations for Mineral Brine Projects
Quality of assay data and laboratory tests	 The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total. For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and the derivation, etc. Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established. 	 The University of Antofagasta in northern Chile is used as the primary laboratory to conduct the assaying of the brine samples collected as part of the drilling program. They also analyzed blanks, duplicates and standards, with blind control samples in the analysis chain. The laboratory of the University of Antofagasta is not ISO certified, but it is specialized in the chemical analysis of brines and inorganic salts, with extensive experience in this field since the 1980s, when the main development studies of the Salar de Atacama were begun. The quality control and analytical procedures used at the University of Antofagasta laboratory are considered to be of high quality and comparable to those employed by ISO certified laboratories specializing in analysis of brines and inorganic salts. Duplicate and standard analyses are considered to be of acceptable quality. Samples for porosity test work are cut from the base of the plastic drill tubes every 3 m. Down hole geophysical tools were provided by a geophysical contractor and these are believed to be calibrated periodically to produce consistent results.
Verification of sampling and assaying	 The verification of significant intersections by either independent or alternative company personnel. The use of twinned holes. Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. Discuss any adjustment to assay data. 	 A full QA/QC program for monitoring accuracy, precision and to monitor potential contamination of samples and the analytical process was implemented. Accuracy, the closeness of measurements to the "true" or accepted value, was monitored by the insertion of standards, or reference samples, and by check analysis at an independent (or umpire) laboratory. Duplicate samples in the analysis chain were submitted to the University of Antofagasta as unique samples (blind duplicates) following the drilling process. Stable blank samples (distilled water) were inserted to measure cross contamination during the analytical process. The anion-cation balance was used as a measure of analytical accuracy and was always considerably less than +/-5%, which is considered to be an acceptable balance.

Criteria	JORC Code explanation	Considerations for Mineral Brine Projects
Location of data points	 Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation. Specification of the grid system used. Quality and adequacy of topographic control. 	 The hole was located with a hand held GPS in the field and subsequently located by a surveyor on completion of the drilling program. The location is in WGS84 Zone 19 south.
Data spacing and distribution	 Data spacing for reporting of Exploration Results. Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied. Whether sample compositing has been applied. 	 Lithological data was collected throughout the drilling. Drill holes have a spacing of approximately 2 km. Brine samples have a 6 m vertical separation and drill cutting lithological samples are on 2 m intervals (in 2011 drilling samples were taken every 3 m). Porosity samples were taken every 3 m in sonic core holes.
Orientation of data in relation to geological structure	 Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material. 	• The salar deposits that host lithium-bearing brines consist of sub-horizontal beds and lenses of halite, sand, gravel and clay. The vertical holes are essentially perpendicular to these units, intersecting their true thickness.
Sample security	The measures taken to ensure sample security.	 Samples were transported to the University of Antofagasta (primary, duplicate and QA/QC samples) for chemical analysis in sealed 1-litre rigid plastic bottles with sample numbers clearly identified. The samples were moved from the drill site to secure storage at the camp on a daily basis. All brine sample bottles are marked with a unique label.
Audits or reviews	 The results of any audits or reviews of sampling techniques and data. 	 No audits or reviews have been conducted at this point in time.

SECTION 2 - REPORTING OF EXPLORATION RESULTS

Criteria	JORC Code explanation	Considerations for Mineral Brine Projects
Mineral tenement and land tenure status	 Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings. The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area. 	 The Maricunga property is located approximately 170 km northeast of Copiapo in the III Region of northern Chile at an elevation of approximately 3,800 masl. The property comprises 1,438 ha in six mineral properties known as Litio 1 -6. In addition, the Cocina 19-27 properties, San Francisco, Salamina and Despreciada properties (1,125 ha) were purchased between 2013 2013 and 2015. The properties are located in the northern section of the Salar de Maricunga. The tenements/properties are believed to be in good standing, with payments made to relevant government departments.
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	 SLM Litio drilled 58 vertical holes in the Litio properties on a 500m x 500m grid in February 2007. Each hole was 20m deep. The drilling covered all of the Litio 1 – 6 property holdings. Those holes were 3.5" diameter and cased with either 40 mm PVC or 70 mm HDPE pipe inserted by hand to resistance. Samples were recovered at 2 m to 10 m depth and 10 m to 20 m depth by blowing the drill hole with compressed air and allowing recharge of the hole. Subsequently, samples were taken from each drill hole from the top 2 m of brine. In total, 232 samples were collected and sent to Cesmec in Antofagasta for analysis. Prior to this the salar was evaluated by Chilean state organization Corfo, using hand dug pit samples.
Geology	 Deposit type, geological setting and style of mineralisation. 	 The sediments within the salar consist of halite, sand, gravel and clay which have accumulated in the salar from terrestrial sedimentation and evaporation of brines within the salar. These units are interpreted to be essentially flat lying, with unconfined aquifer conditions close to surface and semi-confined to confined conditions at depth. Brines within the salar are formed by solar concentration, with brines hosted within the different sedimentary units. Geology was recorded during drilling of all the holes.



Criteria	JORC Code explanation	Considerations for Mineral Brine Projects
Drill hole Information	 A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes: easting and northing of the drill hole collar elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar dip and azimuth of the hole down hole length and interception depth hole length. If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case. 	 Lithological data was collected from the holes as they were drilled as drill cuttings, and at the geological logging facility for sonic cores, with the field parameters (electrical conductivity, density, pH) Measured on the brine samples taken on 6 m intervals. Brine samples were collected at 6 m intervals and sent for analysis to the University of Antofagasta, together with quality control/quality assurance samples. Drill hole collars, surveyed elevations, dip and azimuth, hole length and aquifer intersections are provided in tables within the text.
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 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. 	 Brine samples taken from the holes every 6 m represent brine over the sample interval. No outlier restrictions were applied to the concentrations, as distributions of the different elements do not show anomalously high values.

Criteria

between

widths and

Diagrams

Relationship



	of Exploration Results.	mineralisation.
Other substantive exploration data	 Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances. 	 Refer to the information provided in Technical report on the Maricunga Lithium Project Region III, Chile. NI 43-101 report prepared for the Maricunga Joint Venture August 25, 2017 for all geophysical and geochemical data. Information on pumping tests has been provided by the Company following the completion of pumping tests at holes P4 and P2.
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. 	• The Company will consider additional drilling. The brine body is open at depth and there is an exploration target defined in this area which could potentially be incorporated into the resource subject to positive drilling results.

SECTION 3 - ESTIMATION AND REPORTING OF MINERAL RESOURCES

Criteria	JORC Code explanation	Considerations for Mineral Brine Projects
Database integrity	 Measures taken to ensure that data has not been corrupted by, for example, transcription or keying errors, between its initial collection and its use for Mineral Resource estimation purposes. Data validation procedures used. 	 Data was transferred directly from laboratory spreadsheets to the database. Data was checked for transcription errors once in the database, to ensure coordinates, assay values and lithological codes were correct. Data was plotted to check the spatial location and relationship to adjoining sample points. Duplicates and Standards have been used in the assay process. Brine assays and porosity test work have been analysed and compared with other publicly available information for reasonableness. Comparisons of original and current datasets were made to ensure no lack of integrity.
Site visits	 Comment on any site visits undertaken by the Competent Person and the outcome of those visits. If no site visits have been undertaken indicate why this is the case. 	 The JORC Competent Person visited the site multiple times during the drilling and sampling program. Some improvements to procedures were made during visits by the Competent Person.
Geological interpretation	 Confidence in (or conversely, the uncertainty of) the geological interpretation of the mineral deposit. Nature of the data used and of any assumptions made. The effect, if any, of alternative interpretations on Mineral Resource estimation. The use of geology in guiding and controlling Mineral Resource estimation. The factors affecting continuity both of grade and geology. 	 There is a high level of confidence in the geological model for the Project. There are relatively distinct geological units in essentially flat lying, relatively uniform, clastic sediments and halite. Any alternative interpretations are restricted to smaller scale variations in sedimentology, related to changes in grain size and fine material in units. Data used in the interpretation includes sonic, rotary and reverse circulation drilling. Drilling depths and geology has been used to separate the deposit into different geological units. Sedimentary processes affect the continuity of geology, whereas the concentration of lithium and potassium and other elements in the brine is related to water inflows, evaporation and brine evolution in the salt lake.



Criteria	JORC Code explanation	Considerations for Mineral Brine Projects
Dimensions	 The extent and variability of the Mineral Resource expressed as length (along strike or otherwise), plan width, and depth below surface to the upper and lower limits of the Mineral Resource. 	 The lateral extent of the resource has been defined by the boundary of the Company's properties. The brine mineralisation consequently covers 25.64 km². The top of the model coincides with the topography obtained from the Shuttle Radar Topography Mission (SRTM). The original elevations were locally adjusted for each borehole collar with the most accurate coordinates available. The base of the resource is limited to a 200 m depth. The basement rocks underlying the salt lake sediments have not yet been intersected in drilling. The resource is defined to a depth of 200 m balaw surface, with the original to a conduct the surface with the original distribution.
		immediately underlying the resource.





Criteria	JORC Code explanation	Considerations for Mineral Brine Projects
Criteria Estimation and modelling techniques continued	JORC Code explanation	 Considerations for Mineral Brine Projects Estimation of resources used the average drainable porosity value for each geological unit, based on the drill hole data. The block size (50 x 50 x 1m) has been chosen for being representative of the thinner units inside the geological model. No assumptions were made regarding selective mining units and selective mining can be difficult to apply in brine deposits, where the brine flows in response to pumping. No assumptions were made about correlation between variables. Lithium and potassium were estimated independently. The geological interpretation was used to define each geological unit and the property limit was used to enclose the reported resources. The lithium and potassium concentration is not necessary related to a particular lithology. The Inferred resource was extrapolated in this area on the basis that it is within the salt lake and occupies the same geological unit as Measured resource in the adjacent Cocina property. Validation was perform using a series of checks including comparison of univariate statistics for global estimation bias, visual inspection against samples on plans and sections, swath plots in the north, south and vertical directions to detect any spatial bias. An independent nearest-neighbor (NN) model was generated for each parameter in order to verify that the estimates honor the borehole data. The NN model also provides a de-clustered distribution of borehole data that can be used for validation.
		 that can be used for validation. Visual validation shows a good agreement between the samples and the OK estimates. A global statistics comparison shows relative differences between the ordinary kriging results and the nearest- neighbor is below 0.3% for measured resources and below 3% for indicated resources which is considered acceptable.



Criteria	JORC Code explanation	Considerations for Mineral Brine Projects
Moisture	 Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content. 	 Moisture content of the cores was not Measured (porosity and density measurements were made), but as brine will be extracted by pumping not mining this is not relevant for the resource estimation. Tonnages are estimated as metallic lithium and potassium dissolved in brine.
Cut-off parameters	 The basis of the adopted cut-off grade(s) or quality parameters applied. 	 No cut-off grade has been applied as the highest grades are present within the upper halite unit and are considered to be real and consistent and a relatively small volume of the total resource.
Mining factors or assumptions	 Assumptions made regarding possible mining methods, minimum mining dimensions and internal (or, if applicable, external) mining dilution. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential mining methods, but the assumptions made regarding mining methods and parameters when estimating Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the mining assumptions made. 	 The resource has been quoted in terms of brine volume, concentration of dissolved elements, contained lithium and potassium and their products lithium carbonate and potassium chloride. No mining or recovery factors have been applied (although the use of the specific yield = drainable porosity is used to reflect the reasonable prospects for economic extraction with the proposed mining methodology). Dilution of brine concentrations may occur over time and typically there are lithium and potassium losses in both the ponds and processing plant in brine mining operations. However, potential dilution will be estimated in the groundwater model simulating brine extraction. The mining method will recover brine from the salt lake via a network of wells, that pump to evaporation ponds, from where the brine is concentrated and then pumped into the processing plant. Detailed hydrologic studies of the lake are close to completion (groundwater modelling) to define the extraction rates.



Criteria	JORC Code explanation	Considerations for Mineral Brine Projects
Metallurgical factors or assumptions	 The basis for assumptions or predictions regarding metallurgical amenability. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential metallurgical methods, but the assumptions regarding metallurgical treatment processes and parameters made when reporting Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the metallurgical assumptions made. 	 Assessment of the preferred brine processing route has advanced considerably since 2017, using major global chemical engineering companies Veolia and GEA to conduct test work under the supervision of the project process engineer. This has confirmed the proposed lithium extraction flow sheet. Lithium and potassium would be produced via conventional brine processing techniques and evaporation ponds to concentrate the brine prior to processing. Process test-work (which can be considered equivalent to metallurgical testwork) has been carried out on the brine following initial test-work initiated under Li3 Energy in 2012. The 2017/2018 process test-work by major chemical companies Veolia and GEA has confirmed that high purity lithium carbonate can be produced from the Maricunga brine, which is an important milestone for the company on the road to full scale commercial production. The guality of lithium carbonate meets the requirements for battery grade product. The company continues to optimise the production process to minimize the cost of chemical reagents to obtain the best possible operating cost in the project DFS.
Environmental factors or assumptions	Assumptions made regarding possible waste and process residue disposal options. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider the potential environmental impacts of the mining and processing operation. While at this stage the determination of potential environmental impacts, particularly for a greenfields project, may not always be well advanced, the status of early consideration of these potential environmental impacts should be reported. Where these aspects have not been considered this should be reported with an explanation of the environmental assumptions made.	 Impacts of a lithium and potash operation at the Maricunga project would include; surface disturbance from the creation of extraction/processing facilities and associated infrastructure, accumulation of various salt tailings impoundments and extraction from brine and fresh water aquifers regionally.



Criteria	JORC Code explanation	Considerations for Mineral Brine Projects
Bulk density	 Whether assumed or determined. If assumed, the basis for the assumptions. If determined, the method used, whether wet or dry, the frequency of the measurements, the nature, size and representativeness of the samples. The bulk density for bulk material must have been measured by methods that adequately account for void spaces (vugs, porosity, etc), moisture and differences between rock and alteration zones within the deposit. Discuss assumptions for bulk density estimates used in the evaluation process of the different materials. 	 Density measurements were taken as part of the drill core assessment. This included determining dry density and particle density as well as field measurements of brine density. Note that no mining is to be carried out as brine is to be extracted by pumping and consequently sediments are not mined but the lithium and potassium is extracted by pumping. However, no bulk density was applied to the estimates because resources are defined by volume, rather than by tonnage. The salt unit can contain fractures and possibly vugs which host brine and add to the drainable porosity.
Classification	 The basis for the classification of the Mineral Resources into varying confidence categories. Whether appropriate account has been taken of all relevant factors (i.e. relative confidence in tonnage/grade estimations, reliability of input data, confidence in continuity of geology and metal values, quality, quantity and distribution of the data). Whether the result appropriately reflects the Competent Person's view of the deposit. 	 The resource has been classified into the three possible resource categories based on confidence in the data collected and the estimation. The Measured resource reflects the predominance of sonic drilling, with porosity samples from drill cores and well constrained vertical brine sampling in the holes. The Indicated resource reflects the lower confidence in the brine sampling in the rotary drilling and lower quality geological control from the drill cuttings. The Inferred resource underlying the Measured resource in the Litio properties reflects the limited drilling to this depth together with the likely geological continuity suggested by drilling on the adjacent Cocina property and the geophysics through the property. In the view of the Competent Person the resource classification is believed to adequately reflect the available data and is consistent with the suggestions of Houston et. al., 2011 and the CIM Best Practice Guidelines.
Audits or reviews	 The results of any audits or reviews of Mineral Resource estimates. 	 This Mineral Resource was estimated by independent consultancy Flosolutions, who are contracted by the Maricunga JV for hydrological services. This work has been reviewed by the Competent Person.



Criteria	JORC Code explanation	Considerations for Mineral Brine Projects
Discussion of relative accuracy/ confidence	 Where appropriate a statement of the relative accuracy and confidence level in the Mineral Resource estimate using an approach or procedure deemed appropriate by the Competent Person. For example, the application of statistical or geostatistical procedures to quantify the relative accuracy of the resource within stated confidence limits, or, if such an approach is not deemed appropriate, a qualitative discussion of the factors that could affect the relative accuracy and confidence of the estimate. The statement should specify whether it relates to global or local estimates, and, if local, state the relevant to technical and economic evaluation. Documentation should include assumptions made and the procedures used. These statements of relative accuracy and confidence of the estimate should be compared with production data, where available. 	 An independent estimate of the resource was completed using a nearest-neighbour estimate and the comparison of the results with the ordinary kriging estimate is below 0.3% for measured resources and below 3% for indicated resources which is considered to be acceptable. Univariate statistics for global estimation bias, visual inspection against samples on plans and sections, swath plots in the north, south and vertical directions to detect any spatial bias shows a good agreement between the samples and the ordinary kriging estimates.

References

Houston, J., Butcher, A., Ehren, P., Evans, K., and Godfrey, L. The Evaluation of Brine Prospects and the Requirement for Modifications to Filing Standards. Economic Geology. V 106, p 1225-1239.

CIM Best Practice Guidelines for Resource and Reserve Estimation for Lithium Brines.