

CLEANER LITHIUM EN ELECTRIC WORLD

QUARTERLY REPORT ENDING 30 SEPTEMBER 2020 LAKE RESOURCES NL ASX:LKE OTC:LLKKF

29 October 2020

Lake Resources N.L. ASX:LKE OTC:LLKKF ABN 49 079 471 980

Shares on Issue: 792,128,624

Options Listed: 52,512,693 (10c, Jun'21)

Options Unlisted: 18,300,000 (4.6c, Oct'22) 5,555,000 (8c, Feb'22) 15,000,000 (9c, Jul'21) 9,500,000 (28c, Dec'20)

Market Capitalisation: A\$47 million (@6c) [US\$34 million]

Share Price Range: A\$0.023 – 0.095 (12mth)

Cash (30 Sept 2020): A\$3 million

Contact: +61 2 9188 7864 steve@lakeresources.com.au

HIGHLIGHTS

- High purity 99.97% battery quality lithium carbonate produced at the Lilac Solutions' pilot plant
- Kachi Project brines prove to supply a product of very low impurities, attractive for the battery market, with premium pricing potential.
- Samples to be sent to Novonix to produce highperformance lithium-ion battery test cells using Lake's lithium carbonate samples.
- Company well-funded to initiate Kachi Project Definitive Feasibility Study (DFS).

Summary Outcomes:

Lake has now demonstrated at pilot scale a clean, sustainable, cost-competitive solution to delivering high purity lithium products using Lilac Solution's direct lithium extraction (DLE) method with the lithium bearing salty water (brine) at Lake's Kachi project.

Brine can be reinjected into the aquifer once the lithium has been removed, without adjusting its chemistry or adding reagents. Traditional evaporation ponds are not required. No mining is involved. This offers an responsibly sourced, sustainable solution for an industry at the forefront of the global clean energy revolution.

Lake's ambition is to produce the cleanest battery quality lithium carbonate at scale for use in the accelerating battery and EV market.

LAKE RESOURCES NL

Level 5, 126 Phillip Street Sydney NSW 2000 +61 2 9188 7864

ASX:LKE FRA:LK1 OTC:LLKKF

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LAKE RESOURCES N.L. QUARTERLY REPORT ENDING 30 SEPTEMBER 2020

Summary

Lake Resources NL (ASX:LKE OTC:LLKKF) is a lithium developer utilising clean, direct extraction technology for the development of sustainable, high purity lithium products from its flagship Kachi Project (4.4 million tonnes LCE, Lithium Carbonate Equivalent resource) as well as three other lithium brine projects in Argentina (see ASX announcement 27 November 2018). The projects are in a prime location within the Lithium Triangle alongside all 5 major lithium producers, where 40% of the world's lithium is produced at the lowest cost. Lake owns over 200,000 hectares (~500,000 acres) of leases, including one hard rock project.

During the quarter, the Company produced a high quality lithium chloride solution from Kachi brine which was processed by direct lithium extraction (DLE) in the pilot plant based at Lilac Solutions in Oakland, California. This solution was subsequently treated by Hazen Research Inc. to convert the lithium chloride to high quality, low impurity lithium carbonate: 99.97% Lithium Carbonate (Table 1).

Chemical Component	Actual (wt%)	Target
Lithium (Li)	99.97	99.5 Min
Sodium (Na)	0.0011	0.025 Max
Magnesium (Mg)	<0.001	0.008 Max
Calcium (Ca)	<0.001	0.005 Max
Potassium (K)	0.0049	0.005 Max
Sulphur (S)	<0.01	0.01 SO4 Max
Aluminum (Al)	<0.001	0.001 Max
Iron (Fe)	<0.001	0.001 Max
Silicon (Si)	<0.001 *	0.005 Max
Boron (B)	<0.001	0.005 Max
Strontium (Sr)	0.0018	Uncertain
Copper	<0.001	0.002 Max

Table 1: Analytical results of lithium carbonate produced by Hazen Research Inc.

Lithium carbonate produced by Hazen shows a 70% reduction in the overall level of impurities compared to Lake's earlier lithium carbonate production (99.9% lithium carbonate, refer ASX announcement 9 January 2020) and a significant 94% reduction in impurities compared with 99.5% lithium carbonate, widely accepted as "battery grade" in the current market. Notably, the results show very low metal and cation impurities including iron (Fe) and boron (B).

These results together with earlier tests have demonstrated the efficacy of the DLE process in producing a lithium chloride solution which can generate a high quality lithium carbonate being suitable for the battery market (refer ASX announcement 20 October 2020 and 9 January 2020). Lake expects this product to be highly attractive for the lithium-ion battery market where low impurities is a key factor in determining battery quality.

The disruptive DLE process offered by our technology partner, Lilac Solutions will enable Lake Resources to be an efficient, environmentally friendly and cost competitive supplier to produce responsibly-sourced, high-purity lithium carbonate. The environmental footprint of Lilac's DLE is far smaller than conventional brine evaporation processes or hard rock mining and virtually all brine water is returned to its source without changing its chemistry, apart from lithium removal.

OPERATIONS







Kachi Lithium Brine Project - Catamarca Province, Argentina

Summary

Lake Resources' 100%-owned Kachi Lithium Brine Project in Catamarca province, NW Argentina, covers 37 mining leases (70,400 hectares), centred around a previously undrilled salt lake within a large lithium brinebearing basin. Kachi is one of the few salt lakes in Argentina with substantial identified lithium brines fully controlled by a single owner. The project is located at about 3000 metres altitude, south of Livent's (FMC) Hombre Muerto Lithium brine operation (NYSE:LTHM) which is Argentina's longest operating lithium brine

project.

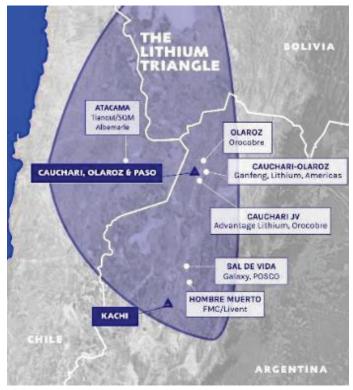


Figure 1: Location of Lake projects in NW Argentina.

Lake aims to bring the project towards production by using the efficient, disruptive and low cost direct extraction technology from our partner, Lilac Solutions Inc, in California, USA. Lilac has successfully produced high purity lithium chloride eluate from Kachi Project brine samples using its proprietary ion-exchange direct lithium extraction method at pilot plant module scale in California (refer ASX announcement 3 July 2020). Samples of this lithium chloride were further processed into lithium carbonate by an independent third party laboratory, Hazen Research Inc, in Colorado, USA (refer ASX release 6 August 2020). Lilac has previously produced 99.9% pure lithium carbonate from this lithium chloride using the conventional lithium carbonate process (refer ASX release 20 October 2020). Hazen conducted a series of tests aimed at optimizing lithium carbonate quality while maintaining a simple flowsheet. Conventional treatment methods, including evaporation, treatment with sodium hydroxide and soda ash, ion exchange, and precipitation, were used (see Appendix 1). This process optimization was a critical step prior to production of larger volumes of high purity lithium carbonate samples. Hazen will continue to produce lithium carbonate samples, targeting 5kg to 6kg in this round of tests.

The tests at Hazen revealed that very high purity 99.97% lithium carbonate with low impurities can be produced from Kachi brines.

Lithium Carbonate with Very Low Impurities



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Lake expects this product to be highly attractive for the lithium-ion battery market where low impurities is a key factor in determining battery quality.

Premium Pricing Potential

Pricing in the lithium carbonate market is largely determined by lithium carbonate grade and the level and type of impurities. The results achieved by Lilac and Hazen with Kachi brine suggest the potential to achieve substantially higher prices than previously envisaged. The Pre-Feasibility Study (PFS) (refer ASX announcement 30 April 2020) was based on achieving 99.9% lithium carbonate and a fixed selling price of US\$11,000/t.

Scale-up from Pilot Plant Module to Production Scale

Lilac's pilot plant module treatment of Kachi brine to produce lithium chloride solution was conducted at roughly 1,000x the earlier laboratory bench-scale tests. The scale-up from the pilot module to full production scale modules is expected to be a relatively small, 3 to 5 times, depending on the final module design. The PFS was based on utilizing a series of modules to produce 25,500 tonnes per annum lithium carbonate equivalent. These successful pilot module tests from brine to final product, provide the confidence to replicate the results at planned production scale. Further, the use of direct lithium extraction as designed by Lilac, allows for consistent product quality and for ready production scalability.

Definitive Feasibility Study

The results of Hazen's process optimization, forthcoming battery tests, updated price expectations, and decisions on final plant module capacity, will be incorporated into the forthcoming Definitive Feasibility Study (DFS).

A compelling Pre-Feasibility Study (PFS) was completed for the Kachi Project to produce sustainable, high purity, low impurity lithium carbonate to attract premium pricing. A long-life (25 years), low cost operation was demonstrated with annual production target of 25,500 tonnes of battery grade lithium carbonate by direct extraction using Lilac's technology, based on the Indicated Resource of 1.0 million tonnes LCE at 290 mg/L lithium (22% of current total resource). The study focused on the engineering and costing of preferred process design options supported by direct lithium extraction test work by Lilac Solutions, with Hatch appointed to provide engineering and design services. A post-tax NPV8 of US\$748 million (A\$1,180m) and IRR of 22% was generated in the PFS. A high margin operation was shown with an EBITDA of US\$155 million (A\$245m) in first full year of production, and an operating margin of 62%, using forecast of US\$11,000/t Li2CO3 CIF Asia. A competitive capital cost (capex) estimate of US\$544 million was estimated, including contingency, and operating cost (opex) of US\$4178/tonne Li2CO3.

Testing High Purity Lithium in Batteries by Novonix

Lithium carbonate samples will now be sent to Novonix Battery Technology Solutions, which is a subsidiary of Novonix Limited (ASX:NVX, OTCQX:NVNXF). It is a Nova Scotia-based independent testing and development laboratory used by recognised battery makers, including CATL, Panasonic, Apple and Dyson.

Novonix is currently developing "million mile" battery technologies with revolutionary anode and cathode materials. Samples will also be sent to other potential off-take partners in Asia and Europe.







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Lake's high purity lithium carbonate will be tested together with commercial battery cathode precursor materials in NMC622 batteries (refer ASX announcement 27 August 2020). In addition, using Novonix's pilot cell line and proprietary advanced diagnostic tools, the performance of Lake's high purity, lithium product will be evaluated for conformity with lithium-ion battery industry standards. Significantly, this data will allow potential users and off-takers of Lake's product to make direct and relevant comparisons of its performance to familiar cell chemistries. Testing will take a minimum of four months and the first results are expected two months after the first cathode material is produced.



Figure 2: Lithium bearing brines being pumped into containers at the Kachi Lithium Brine Project. Containers delivered to Lilac's pilot plant module in Oakland, California



Figure 3: Hazen Research – Neutralisation and precipitation of Lake's lithium product at its lab in Colorado, USA, with the production of Lake's lithium carbonate product.



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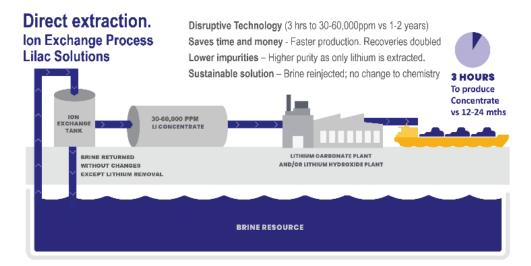


Figure 4. Lilac Solutions direct extraction process for lithium from brines using ion exchange.

Cauchari and Olaroz Lithium Brine Projects - Jujuy Province, Argentina

Lake holds mining leases over ~45,000 hectares in two areas in Jujuy Province in NW Argentina, both 100% owned by Lake. Multiple high-grade lithium brine sources over 506m interval (102m to 608m depth) at Cauchari Lithium Brine Project were identified in the results returned in late August 2019. This drilling confirmed similar grades and lithium brines extending into Lake's properties from the adjoining Ganfeng/ Lithium Americas Cauchari project (NYSE:LAC) which is progressing to production in 2021 at 40,000tpa LCE.

CORPORATE

Cash Position and Financing

Lake held cash of \$3.06 million as at 30 September 2020 (in AUD, USD and Argentine Pesos) with no debt.

The Company is well financed for its current plans, including the initiation of the Definitive Feasibility Study (DFS) for the Kachi project. Discussions with international investment funds continue to secure funding for other studies and works to advance the Kachi project through to the establishment of construction finance.

On 28 August 2020, 85.7 million shares were issued at \$0.03 per ordinary share by way of private placement to sophisticated and professional investors to raise \$2.55 million before costs. Also on 28 August 2020, 15 million shares were issued at \$0.033 per ordinary share in accordance with a Controlled Placement Agreement. On 25 September 2020, 15 million shares were issued at \$0.06 per ordinary share in accordance with a Controlled Placement Agreement. A \$200,000 loan, raised in July 2020, was retired with interest so that no loans are outstanding. The Company entered into a Controlled Placement Agreement (the Agreement) in August 2018 with Acuity Capital Pty Ltd. There are no requirements on the Company to utilise the Agreement and the current Agreement will lapse in December 2020.

EGM, AGM

An Extraordinary General Meeting of Shareholders was held virtually on 15 October 2020, due to restrictions on physical meetings as a result of COVID 19. The one resolution was passed.

The Annual General Meeting of Shareholders will be held virtually on Thursday 26 November 2020 at 10am (AEDT, Sydney time). In accordance with the temporary modifications to the Corporations Act 2001 (Cth), the



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Company is now mailing hard copies of the Notice of the AGM (Notice of Meeting) to Shareholders. A copy of the Notice of Meeting can be viewed and downloaded at the following link: https://lakeresources.com.au/investors/asx-announcements/.

Given the significant health concerns attributed to the COVID-19 pandemic, the AGM will be held online as a virtual meeting. If you wish to virtually attend the AGM (which will be broadcast as a live webinar), pre-register in advance here: https://us02web.zoom.us/webinar/register/WN_dScU9ugXSnSifmETKxykCg

Capital Structure

Lake has 792,128,624 shares on issue as at 27 October 2020. Listed Options include 52,512,693 options with an exercise price of \$0.10 (expiry June 2021). Unlisted options include 18,300,000 options with an exercise price of \$0.046 (expiry October 2022), 5,555,000 options with an exercise price of \$0.08 (expiry Feb 2022), 15,000,000 options with an exercise price of \$0.09 (expiry July 2021) and 9,500,000 unlisted options with an exercise price of \$0.28 (expiry 31 December 2020). 5,000,000 performance shares were converted to ordinary shares after the hurdle was achieved with the completion of the PFS, with 10,000,000 performance shares remaining with various hurdles which were approved at the shareholder meeting in August 2019.

Prior Prospectus Disclosure and Use of Funds:

As reported at the June 2020 quarter, the Company issued prospectuses in February and March 2020 for the SPP and to cleanse private placements made during that period. The funds raised were expended as disclosed in the June quarter activities report dated 31 July 2020. On 25 September 2020, the Company issued a prospectus with the primary purpose to remove any secondary trading restrictions on the on-sale of shares issued by the Company prior to the closing date. Accordingly, the prospectus did not raise capital for expenditure by the company.

Payments to related parties of the entity and their associates:

Amounts paid and accrued to related parties of the entity and their associates during the quarter were \$111,785. These amounts related to normal Directors fees including the salary of the Managing Director and consulting fees for the Company's technical director for supervisory work on the commissioning of the pilot plant and the Chairman for ongoing fund raising activities.

For further information please contact:

Steve Promnitz, Managing Director +61 2 9188 7864

steve@lakeresources.com.au

Follow Lake on Twitter: https://twitter.com/Lake Resources
Follow on LinkedIn: https://www.linkedin.com/company/lake-resources/

Website: http://www.lakeresources.com.au

For media queries, contact:

Anthony Fensom, Republic PR, +61 (0) 407 112 623, anthony@republicpr.com.au
Henry Jordan, Six Degrees Investor Relations: +61 (0) 431 271 538, henry.jordan@sdir.com.au

Competent Person's Statement – Kachi Lithium Brine Project

The information contained in this ASX release relating to Exploration Results, Mineral Resource estimates, and the associated Indicated Resource, which underpins the production target utilised in the Pre-Feasibility Study, have been compiled by Mr Andrew Fulton. Mr Fulton is a Hydrogeologist and a Member of the Australian Institute of Geoscientists and the Association of Hydrogeologists. Mr Fulton 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. Andrew Fulton is an employee of Groundwater Exploration Services Pty Ltd and an independent consultant to Lake Resources NL. Mr Fulton 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 the Kachi project.



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APPENDIX 1 - JORC CODE, 2012 EDITION, JORC TABLE 1 REPORT: KACHI LITHIUM BRINE PROJECT

Criteria	Section 1 - Sampling Techniques and Data
Sampling techniques	 Brine samples were taken from the diamond drill hole with a bottom of hole spear point during advance and using a straddle packer device to obtain representative samples of the formation fluid by purging a volume of fluid from the isolated interval, to minimize the possibility of contamination by drilling fluid then taking the sample. Low pressure airlift tests are used as well. The fluid used for drilling is brine sourced from the drill hole and the return from drillhole passes back into the excavator dug pit lined to avoid leakage. The brine sample was collected in a clean plastic bottle (1 litre) and filled to the top to minimize air space within the bottle. A duplicate was collected at the same time for storage and submission of duplicates to the laboratory. Each bottle was taped and marked with the sample number. Drill core in the hole was recovered in 1.5 m length core runs in core split tubes to minimize sample disturbance. Drill core was undertaken to obtain representative samples of the sediments that host brine.
Drilling techniques	 Diamond drilling with an internal (triple) tube was used for drilling. The drilling produced cores with variable core recovery, associated with unconsolidated material, in particularly sandy intervals. Recovery of these more friable sediments is more difficult with diamond drilling, as this material can be washed from the core barrel during drilling. Rotary drilling has used 8.5" or 10" tricone bits and has produced drill chips. Brine has been used as drilling fluid for lubrication during drilling.
Drill sample recovery	 Diamond drill core was recovered in 1.5m length intervals in the drilling triple (split) tubes. Appropriate additives were used for hole stability to maximize core recovery. The core recoveries were measured from the cores and compared to the length of each run to calculate the recovery. Chip samples are collected for each metre drilled and stored in segmented plastic boxes for rotary drill holes. Brine samples were collected at discrete depths during the drilling using a double packer over a 1 m interval (to isolate intervals of the sediments and obtain samples from airlifting brine from the sediments within the packer). As the brine (mineralisation) samples are taken from inflows of the brine into the hole (and not from
	the drill core – which has variable recovery) they are largely independent of the quality (recovery) of the core samples. However, the permeability of the lithologies where samples are taken is related to the rate and potentially lithium grade of brine inflows.
Logging	 Sand, clay, silt, salt and cemented rock types was recovered in a triple tube diamond core drill tube, or as chip samples from rotary drill holes, and examined for geologic logging by a geologist and a photo taken for reference. Diamond holes are logged by a senior geologist who also supervised taking of samples for laboratory porosity analysis as well as additional physical property testing. Logging is both qualitative and quantitative in nature. The relative proportions of different lithologies which have a direct bearing on the overall porosity, contained and potentially extractable brine are noted, as are more qualitative characteristics such as the sedimentary facies and their relationships. When cores are split for sampling they are photographed.
Sub-sampling techniques and sample preparation	 Brine samples were collected by packer and spear sampling methods, over a metre. Low pressure airlift tests are used as well to purge test interval and gauge potential yields. The brine sample was collected in one-litre sample bottles, rinsed and filled with brine. Each bottle was taped and marked with the sample number.
Quality of assay data and laboratory tests	 The Alex Stewart Argentina/Nor lab SA in Palpala, Jujuy, Argentina, is used as the primary laboratory to conduct the assaying of the brine samples collected as part of the sampling program. The SGS laboratory in Buenos Aires has also been used for both primary and check samples. They also analysed blind control samples and duplicates in the analysis chain. The Alex Stewart/Norlab SA laboratory and the SGS laboratory are ISO 9001 and ISO 14001 certified, and are specialized in the chemical analysis of brines and inorganic salts, with experience in this field. This includes the oversight of the experienced Alex Stewart Argentina S.A. laboratory in Mendoza, Argentina, which has been operating for a considerable period. The quality control and analytical procedures used at the Alex Stewart/Norlab SA laboratory or SGS 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.



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Verification of sampling and assaying	• Field duplicates, standards and blanks will be used to monitor potential contamination of samples and the repeatability of analyses. Accuracy, the closeness of measurements to the "true" or accepted value, will be 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 Alex Stewart/Norlab SA or SGS laboratories as unique samples (blind duplicates) during the process
	Stable blank samples (distilled water) were used to evaluate potential sample contamination and will
	be inserted in future to measure any potential cross contamination
	Samples were analysed for conductivity using a hand-held Hanna pH/EC multiprobe.
Landing of data and ata	Regular calibration using standard buffers is being undertaken. The literature of the literature
Location of data points	 The diamond drill hole sample sites and rotary drill hole sites were located with a hand-held GPS. The properties are located at the junction of the Argentine POSGAR grid system Zone 2 and Zone 3 (UTM 19) and in WGS84 Zone 19 south.
Data spacing and	Brine samples were collected over 1m intervals every 6 m intervals within brine producing aquifers,
distribution	where this was possible.
Orientation of data in relation to geological structure	 The salt lake (salar) deposits that contain lithium-bearing brines generally have sub-horizontal beds and lenses that contain sand, gravel, salt, silt and clay. The vertical diamond drill holes will provide a better understanding of the stratigraphy and the nature of the sub-surface brine bearing aquifers
Sample security	Samples were transported to the Alex Stewart/Norlab SA laboratory or SGS laboratory for chemical analysis in sealed 1-litre rigid plastic bottles with sample numbers clearly identified. Samples were
	transported by a trusted member of the team. The samples were moved from the drillhole sample site to secure storage at the camp on a daily basis.
	All brine sample bottles sent to the laboratory are marked with a unique label not related to the location.
Review (and Audit)	No audit of data has been conducted to date. However, the CP has been onsite periodically during the
	programme. The review included drilling practice, geological logging, sampling methodologies for
	water quality analysis and, physical property testing from drill core, QA/QC control measures and data
	management. The practices being undertaken were ascertained to be appropriate.
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Criteria	Section 2 - Mineral Tenement and Land Tenure Status
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Mineral tenement and	 The Kachi Lithium Brine project is located approximately 100km south-southwest of Livent' (FMC's) Hombre Muerto lithium operation and 45km south of Antofagasta de la Sierra in Catamarca province of north western Argentina at an elevation of approximately 3,000m asl. The project comprises approximately 70,462 Ha in thirty seven mineral leases (minas) of which five leases (9,445 Ha) are granted for drilling, twenty two leases are granted for initial exploration (44,328)
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Mineral tenement and land tenure status	 The Kachi Lithium Brine project is located approximately 100km south-southwest of Livent' (FMC's) Hombre Muerto lithium operation and 45km south of Antofagasta de la Sierra in Catamarca province of north western Argentina at an elevation of approximately 3,000m asl. The project comprises approximately 70,462 Ha in thirty seven mineral leases (minas) of which five leases (9,445 Ha) are granted for drilling, twenty two leases are granted for initial exploration (44,328 Ha) and ten leases (16,689 Ha) are applications pending granting. The tenements are believed to be in good standing, with statutory payments completed to relevant government departments. Marifil Mines Ltd conducted near-surface pit sampling of groundwater at less than 1m depths in 2009. Samples were taken from each hole and analysed at Alex Stewart laboratories in Mendoza Argentina.
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Mineral tenement and land tenure status Exploration by other	 The Kachi Lithium Brine project is located approximately 100km south-southwest of Livent' (FMC's) Hombre Muerto lithium operation and 45km south of Antofagasta de la Sierra in Catamarca province of north western Argentina at an elevation of approximately 3,000m asl. The project comprises approximately 70,462 Ha in thirty seven mineral leases (minas) of which five leases (9,445 Ha) are granted for drilling, twenty two leases are granted for initial exploration (44,328 Ha) and ten leases (16,689 Ha) are applications pending granting. The tenements are believed to be in good standing, with statutory payments completed to relevant government departments. Marifil Mines Ltd conducted near-surface pit sampling of groundwater at less than 1m depths in 2009. Samples were taken from each hole and analysed at Alex Stewart laboratories in Mendoza Argentina. Results were reported in an NI 43-101 report by J. Ebisch in December 2009 for Marifil Mines Ltd. NRG Metals Inc conducted exploration in adjacent leases under option. Two diamond drillholes intersected lithium bearing brines. The initial drillhole intersected brines from 172-198m and below with best results to date of 15m at 229 mg/L Lithium, reported in December 2017. The second hole,
Mineral tenement and land tenure status Exploration by other	 The Kachi Lithium Brine project is located approximately 100km south-southwest of Livent' (FMC's) Hombre Muerto lithium operation and 45km south of Antofagasta de la Sierra in Catamarca province of north western Argentina at an elevation of approximately 3,000m asl. The project comprises approximately 70,462 Ha in thirty seven mineral leases (minas) of which five leases (9,445 Ha) are granted for drilling, twenty two leases are granted for initial exploration (44,328 Ha) and ten leases (16,689 Ha) are applications pending granting. The tenements are believed to be in good standing, with statutory payments completed to relevant government departments. Marifil Mines Ltd conducted near-surface pit sampling of groundwater at less than 1m depths in 2009. Samples were taken from each hole and analysed at Alex Stewart laboratories in Mendoza Argentina. Results were reported in an NI 43-101 report by J. Ebisch in December 2009 for Marifil Mines Ltd. NRG Metals Inc conducted exploration in adjacent leases under option. Two diamond drillholes intersected lithium bearing brines. The initial drillhole intersected brines from 172-198m and below with best results to date of 15m at 229 mg/L Lithium, reported in December 2017. The second hole, drilled to 400 metres in mid-2018, became blocked at 100 metres and could not be sampled. A VES
Mineral tenement and land tenure status Exploration by other	 The Kachi Lithium Brine project is located approximately 100km south-southwest of Livent' (FMC's) Hombre Muerto lithium operation and 45km south of Antofagasta de la Sierra in Catamarca province of north western Argentina at an elevation of approximately 3,000m asl. The project comprises approximately 70,462 Ha in thirty seven mineral leases (minas) of which five leases (9,445 Ha) are granted for drilling, twenty two leases are granted for initial exploration (44,328 Ha) and ten leases (16,689 Ha) are applications pending granting. The tenements are believed to be in good standing, with statutory payments completed to relevant government departments. Marifil Mines Ltd conducted near-surface pit sampling of groundwater at less than 1m depths in 2009. Samples were taken from each hole and analysed at Alex Stewart laboratories in Mendoza Argentina. Results were reported in an NI 43-101 report by J. Ebisch in December 2009 for Marifil Mines Ltd. NRG Metals Inc conducted exploration in adjacent leases under option. Two diamond drillholes intersected lithium bearing brines. The initial drillhole intersected brines from 172-198m and below with best results to date of 15m at 229 mg/L Lithium, reported in December 2017. The second hole, drilled to 400 metres in mid-2018, became blocked at 100 metres and could not be sampled. A VES ground geophysical survey was completed. A NI 43-101 report was released in February 2017.
Mineral tenement and land tenure status Exploration by other	 The Kachi Lithium Brine project is located approximately 100km south-southwest of Livent' (FMC's) Hombre Muerto lithium operation and 45km south of Antofagasta de la Sierra in Catamarca province of north western Argentina at an elevation of approximately 3,000m asl. The project comprises approximately 70,462 Ha in thirty seven mineral leases (minas) of which five leases (9,445 Ha) are granted for drilling, twenty two leases are granted for initial exploration (44,328 Ha) and ten leases (16,689 Ha) are applications pending granting. The tenements are believed to be in good standing, with statutory payments completed to relevant government departments. Marifil Mines Ltd conducted near-surface pit sampling of groundwater at less than 1m depths in 2009. Samples were taken from each hole and analysed at Alex Stewart laboratories in Mendoza Argentina. Results were reported in an NI 43-101 report by J. Ebisch in December 2009 for Marifil Mines Ltd. NRG Metals Inc conducted exploration in adjacent leases under option. Two diamond drillholes intersected lithium bearing brines. The initial drillhole intersected brines from 172-198m and below with best results to date of 15m at 229 mg/L Lithium, reported in December 2017. The second hole, drilled to 400 metres in mid-2018, became blocked at 100 metres and could not be sampled. A VES ground geophysical survey was completed. A NI 43-101 report was released in February 2017.
Mineral tenement and land tenure status Exploration by other parties	 The Kachi Lithium Brine project is located approximately 100km south-southwest of Livent' (FMC's) Hombre Muerto lithium operation and 45km south of Antofagasta de la Sierra in Catamarca province of north western Argentina at an elevation of approximately 3,000m asl. The project comprises approximately 70,462 Ha in thirty seven mineral leases (minas) of which five leases (9,445 Ha) are granted for drilling, twenty two leases are granted for initial exploration (44,328 Ha) and ten leases (16,689 Ha) are applications pending granting. The tenements are believed to be in good standing, with statutory payments completed to relevant government departments. Marifil Mines Ltd conducted near-surface pit sampling of groundwater at less than 1m depths in 2009. Samples were taken from each hole and analysed at Alex Stewart laboratories in Mendoza Argentina. Results were reported in an NI 43-101 report by J. Ebisch in December 2009 for Marifil Mines Ltd. NRG Metals Inc conducted exploration in adjacent leases under option. Two diamond drillholes intersected lithium bearing brines. The initial drillhole intersected brines from 172-198m and below with best results to date of 15m at 229 mg/L Lithium, reported in December 2017. The second hole, drilled to 400 metres in mid-2018, became blocked at 100 metres and could not be sampled. A VES ground geophysical survey was completed. A NI 43-101 report was released in February 2017. No other exploration results were able to be located. The known sediments within the salar consist of salt/halite, clay, sand and silt horizons, accumulated in the salar from terrestrial sedimentation and evaporation of brines.
Mineral tenement and land tenure status Exploration by other parties	 The Kachi Lithium Brine project is located approximately 100km south-southwest of Livent' (FMC's) Hombre Muerto lithium operation and 45km south of Antofagasta de la Sierra in Catamarca province of north western Argentina at an elevation of approximately 3,000m asl. The project comprises approximately 70,462 Ha in thirty seven mineral leases (minas) of which five leases (9,445 Ha) are granted for drilling, twenty two leases are granted for initial exploration (44,328 Ha) and ten leases (16,689 Ha) are applications pending granting. The tenements are believed to be in good standing, with statutory payments completed to relevant government departments. Marifil Mines Ltd conducted near-surface pit sampling of groundwater at less than 1m depths in 2009. Samples were taken from each hole and analysed at Alex Stewart laboratories in Mendoza Argentina. Results were reported in an NI 43-101 report by J. Ebisch in December 2009 for Marifil Mines Ltd. NRG Metals Inc conducted exploration in adjacent leases under option. Two diamond drillholes intersected lithium bearing brines. The initial drillhole intersected brines from 172-198m and below with best results to date of 15m at 229 mg/L Lithium, reported in December 2017. The second hole, drilled to 400 metres in mid-2018, became blocked at 100 metres and could not be sampled. A VES ground geophysical survey was completed. A NI 43-101 report was released in February 2017. No other exploration results were able to be located. The known sediments within the salar consist of salt/halite, clay, sand and silt horizons, accumulated in the salar from terrestrial sedimentation and evaporation of brines. Brines within the Salt Lake are formed by solar concentration, interpreted to be combined with warm
Mineral tenement and land tenure status Exploration by other parties	 The Kachi Lithium Brine project is located approximately 100km south-southwest of Livent' (FMC's) Hombre Muerto lithium operation and 45km south of Antofagasta de la Sierra in Catamarca province of north western Argentina at an elevation of approximately 3,000m asl. The project comprises approximately 70,462 Ha in thirty seven mineral leases (minas) of which five leases (9,445 Ha) are granted for drilling, twenty two leases are granted for initial exploration (44,328 Ha) and ten leases (16,689 Ha) are applications pending granting. The tenements are believed to be in good standing, with statutory payments completed to relevant government departments. Marifil Mines Ltd conducted near-surface pit sampling of groundwater at less than 1m depths in 2009. Samples were taken from each hole and analysed at Alex Stewart laboratories in Mendoza Argentina. Results were reported in an NI 43-101 report by J. Ebisch in December 2009 for Marifil Mines Ltd. NRG Metals Inc conducted exploration in adjacent leases under option. Two diamond drillholes intersected lithium bearing brines. The initial drillhole intersected brines from 172-198m and below with best results to date of 15m at 229 mg/L Lithium, reported in December 2017. The second hole, drilled to 400 metres in mid-2018, became blocked at 100 metres and could not be sampled. A VES ground geophysical survey was completed. A NI 43-101 report was released in February 2017. No other exploration results were able to be located. The known sediments within the salar consist of salt/halite, clay, sand and silt horizons, accumulated in the salar from terrestrial sedimentation and evaporation of brines. Brines within the Salt Lake are formed by solar concentration, interpreted to be combined with warm geothermal fluids, with brines hosted within sedimentary units.
Mineral tenement and land tenure status Exploration by other parties Geology	 The Kachi Lithium Brine project is located approximately 100km south-southwest of Livent' (FMC's) Hombre Muerto lithium operation and 45km south of Antofagasta de la Sierra in Catamarca province of north western Argentina at an elevation of approximately 3,000m asl. The project comprises approximately 70,462 Ha in thirty seven mineral leases (minas) of which five leases (9,445 Ha) are granted for drilling, twenty two leases are granted for initial exploration (44,328 Ha) and ten leases (16,689 Ha) are applications pending granting. The tenements are believed to be in good standing, with statutory payments completed to relevant government departments. Marifil Mines Ltd conducted near-surface pit sampling of groundwater at less than 1m depths in 2009. Samples were taken from each hole and analysed at Alex Stewart laboratories in Mendoza Argentina. Results were reported in an NI 43-101 report by J. Ebisch in December 2009 for Marifil Mines Ltd. NRG Metals Inc conducted exploration in adjacent leases under option. Two diamond drillholes intersected lithium bearing brines. The initial drillhole intersected brines from 172-198m and below with best results to date of 15m at 229 mg/L Lithium, reported in December 2017. The second hole, drilled to 400 metres in mid-2018, became blocked at 100 metres and could not be sampled. A VES ground geophysical survey was completed. A NI 43-101 report was released in February 2017. No other exploration results were able to be located. The known sediments within the salar consist of salt/halite, clay, sand and silt horizons, accumulated in the salar from terrestrial sedimentation and evaporation of brines. Brines within the Salt Lake are formed by solar concentration, interpreted to be combined with warm geothermal fluids, with brines hosted within sedimentary units. Geology was recorded during the diamond drilling and from chip samples in rotary drill holes.
Mineral tenement and land tenure status Exploration by other parties	 The Kachi Lithium Brine project is located approximately 100km south-southwest of Livent' (FMC's) Hombre Muerto lithium operation and 45km south of Antofagasta de la Sierra in Catamarca province of north western Argentina at an elevation of approximately 3,000m asl. The project comprises approximately 70,462 Ha in thirty seven mineral leases (minas) of which five leases (9,445 Ha) are granted for drilling, twenty two leases are granted for initial exploration (44,328 Ha) and ten leases (16,689 Ha) are applications pending granting. The tenements are believed to be in good standing, with statutory payments completed to relevant government departments. Marifil Mines Ltd conducted near-surface pit sampling of groundwater at less than 1m depths in 2009. Samples were taken from each hole and analysed at Alex Stewart laboratories in Mendoza Argentina. Results were reported in an NI 43-101 report by J. Ebisch in December 2009 for Marifil Mines Ltd. NRG Metals Inc conducted exploration in adjacent leases under option. Two diamond drillholes intersected lithium bearing brines. The initial drillhole intersected brines from 172-198m and below with best results to date of 15m at 229 mg/L Lithium, reported in December 2017. The second hole, drilled to 400 metres in mid-2018, became blocked at 100 metres and could not be sampled. A VES ground geophysical survey was completed. A NI 43-101 report was released in February 2017. No other exploration results were able to be located. The known sediments within the salar consist of salt/halite, clay, sand and silt horizons, accumulated in the salar from terrestrial sedimentation and evaporation of brines. Brines within the Salt Lake are formed by solar concentration, interpreted to be combined with warm geothermal fluids, with brines hosted within sedimentary units. Geology was recorded during the diamond drilling and from chip samples in rotary drill holes. 15 drill holes co
Mineral tenement and land tenure status Exploration by other parties Geology	 The Kachi Lithium Brine project is located approximately 100km south-southwest of Livent' (FMC's) Hombre Muerto lithium operation and 45km south of Antofagasta de la Sierra in Catamarca province of north western Argentina at an elevation of approximately 3,000m asl. The project comprises approximately 70,462 Ha in thirty seven mineral leases (minas) of which five leases (9,445 Ha) are granted for drilling, twenty two leases are granted for initial exploration (44,328 Ha) and ten leases (16,689 Ha) are applications pending granting. The tenements are believed to be in good standing, with statutory payments completed to relevant government departments. Marifil Mines Ltd conducted near-surface pit sampling of groundwater at less than 1m depths in 2009. Samples were taken from each hole and analysed at Alex Stewart laboratories in Mendoza Argentina. Results were reported in an NI 43-101 report by J. Ebisch in December 2009 for Marifil Mines Ltd. NRG Metals Inc conducted exploration in adjacent leases under option. Two diamond drillholes intersected lithium bearing brines. The initial drillhole intersected brines from 172-198m and below with best results to date of 15m at 229 mg/L Lithium, reported in December 2017. The second hole, drilled to 400 metres in mid-2018, became blocked at 100 metres and could not be sampled. A VES ground geophysical survey was completed. A NI 43-101 report was released in February 2017. No other exploration results were able to be located. The known sediments within the salar consist of salt/halite, clay, sand and silt horizons, accumulated in the salar from terrestrial sedimentation and evaporation of brines. Brines within the Salt Lake are formed by solar concentration, interpreted to be combined with warm geothermal fluids, with brines hosted within sedimentary units. Geology was recorded during the diamond drilling and from chip samples in rotary drill holes. 15 drill holes co
Mineral tenement and land tenure status Exploration by other parties Geology	 The Kachi Lithium Brine project is located approximately 100km south-southwest of Livent' (FMC's) Hombre Muerto lithium operation and 45km south of Antofagasta de la Sierra in Catamarca province of north western Argentina at an elevation of approximately 3,000m asl. The project comprises approximately 70,462 Ha in thirty seven mineral leases (minas) of which five leases (9,445 Ha) are granted for drilling, twenty two leases are granted for initial exploration (44,328 Ha) and ten leases (16,689 Ha) are applications pending granting. The tenements are believed to be in good standing, with statutory payments completed to relevant government departments. Marifil Mines Ltd conducted near-surface pit sampling of groundwater at less than 1m depths in 2009. Samples were taken from each hole and analysed at Alex Stewart laboratories in Mendoza Argentina. Results were reported in an NI 43-101 report by J. Ebisch in December 2009 for Marifil Mines Ltd. NRG Metals Inc conducted exploration in adjacent leases under option. Two diamond drillholes intersected lithium bearing brines. The initial drillhole intersected brines from 172-198m and below with best results to date of 15m at 229 mg/L Lithium, reported in December 2017. The second hole, drilled to 400 metres in mid-2018, became blocked at 100 metres and could not be sampled. A VES ground geophysical survey was completed. A NI 43-101 report was released in February 2017. No other exploration results were able to be located. The known sediments within the salar consist of salt/halite, clay, sand and silt horizons, accumulated in the salar from terrestrial sedimentation and evaporation of brines. Brines within the Salt Lake are formed by solar concentration, interpreted to be combined with warm geothermal fluids, with brines hosted within sedimentary units. Geology was recorded during the diamond drilling and from chip samples in rotary drill holes. 15 drill holes co



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	Relationship between	Mineralisation interpreted to be horizontally lying and drilling perpendicular to this.
	mineralisation widths and intercept lengths	
	Diagrams	A drill hole location plan is provided showing the locations of the drill platforms is not presented here
	1	but has been shown in previous statements.
	Balanced reporting	 Brine assay results are available from 15 drill holes from the drilling to date, are not presented here but have been reported in previous statements.
	Other substantive exploration data	There is no other substantive exploration data available regarding the project.
	Further work	Further water well drilling is planned to expand the resource and test pumping rates.
	Criteria	Section 3 – Estimation and Reporting of Mineral Resources
	Database integrity	Data was transferred directly from laboratory spreadsheets to the database.
(A) (A)		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.
20		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.
7		Comparison of original and current datasets were made to ensure no lack of integrity.
	Site visits	The Competent Person visited the site multiple times during the drilling and sampling program
	Site visits	Some improvements to procedures were made during visits by the Competent Person
	Geological Interpretation	The geological model is continuing to develop. There is a high level of confidence in the interpretation
	Geological Interpretation	of the exploration results to date. There are relatively consistent geological units with relatively
(D)		uniform clastic sediments
90		Any alternative interpretations are restricted to smaller scale variations in sedimentology, related to shapes in grain size and fine material in units.
		changes in grain size and fine material in units
		Data used in the interpretation includes rotary and diamond drilling methods Drilling double and application includes rotary and diamond drilling methods.
		Drilling depths and geology encountered has been used to conceptualise hydro-stratigraphy
		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
	Discounting	in the Salt Lake.
(C/\cap)	Dimensions	• The lateral extent of the resource has been defined by the boundary of the Company's properties. The
		brine mineralisation subsequently covers 175 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
as		accurate coordinates available. The base of the resource is limited to a 400 m depth. The basement
		rocks underlying the Salt Lake sediments have been intercepted in drilling.
		The resource is defined to a depth of 400 m below surface, with the exploration target immediately and the position becomed the position below to the processor. The resource is defined to a depth of the processor.
	Fatimation and madalling	extending beyond the aerial extent of the resource.
	Estimation and modelling	No grade cutting or capping was applied to the model.
	techniques	No assumptions were made about correlation between variables. Lithium and potassium were
		estimated independently.
20		The geological interpretation was used to define each geological unit and the property limit was used to enclose the congress.
	Maistura	to enclose the reported resources.
	Moisture	Moisture content of the cores was not Measured (porosity and density measurements were made), but as bring will be extracted by numering not mining this is not relevant for the resource estimation.
		but as brine will be extracted by pumping not mining this is not relevant for the resource estimation.
Пп	Cut off name of	Tonnages are estimated as elemental lithium and potassium dissolved in brine. No sub-off grade has been applied.
	Cut-off parameters	No cut-off grade has been applied.
	Mining factors or	• The resource has been quoted in terms of brine volume, concentration of dissolved elements,
	assumptions	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. (Recoveries of 83% lithium have been used in the PFS for the direct processing method)
		Dilution of brine concentrations may occur over time and typically there are lithium and potassium
		losses in both the storage ponds and processing plant in brine extraction operations. However,
		potential dilution will be estimated in the groundwater model simulating brine extraction.



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		 The conceptual mining method is recovering brine from the Salt Lake via a network of wells, the established practice on existing lithium and potash brine projects. Detailed hydrological studies of the lake are being undertaken (groundwater modelling) to define the extractable resources and potential extraction rates.
JERONAI USE ONI	Environmental factors as assumptions Environmental factors as assumptions	 Lithium carbonate is targeted as the commercial product. It would be obtained by the brines being subjected to direct lithium extraction (ionic exchange and reverse osmosis) to produce a high grade LiCl eluate (30,000 to 60,000 mg/L lithium), which is processed in a conventional lithium carbonate plant by reaction with sodium carbonate:
		 be carried out as brine is to be extracted by pumping and consequently sediments are not mined No bulk density was applied to the estimates because resources are defined by volume, rather than by tonnage.
	Classification	 The resource has been classified into the two possible resource categories based on confidence in the estimation. A Measured resource would reflect higher density drilling, with porosity samples from drill cores and well constrained vertical brine sampling in the holes. The Indicated resource reflects the higher confidence in the brine sampling in the rotary drilling and lower quality geological control from the drill cuttings. The Inferred resource underlying the Measured and/or Indicated resource reflects the limited drilling to this depth together with 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
	Audits or reviews	The Mineral Resource was estimated by the Competent Person.



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LKE Qtr Rpt End Sept 2020

Discussion of relative accuracy/ confidence

- 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. (2011). The Evaluation of Brine Prospects and the Requirement for Modifications to Filing Standards. Economic Geology. V 106, p 1225-1239.

About Lake Resources NL (ASX:LKE OTC:LLKKF) -

Cleaner high purity lithium using efficient disruptive clean technology

Lake Resources NL (ASX:LKE, OTC: LLKKF) is a clean lithium developer utilising clean, direct extraction technology for the development of sustainable, high purity lithium from its flagship Kachi Project, as well as three other lithium brine projects in Argentina. The projects are in a prime location within the Lithium Triangle, where 40% of the world's lithium is produced at the lowest cost.

This method will enable Lake Resources to be an efficient, responsibly-sourced, environmentally friendly and cost competitive supplier of high-purity lithium, which is readily scalable, and in demand from Tier 1 electric vehicle makers and battery makers.

- 1. Clean-Tech: Efficient, disruptive clean technology to produce sustainable high purity lithium, with a smaller environmental footprint, in demand by Tier1 EV makers and battery makers. This is a cost-competitive technology provided by our partner in California, Lilac Solutions, who have received the backing of the Bill Gates-led Breakthrough Energy fund and MIT's The Engine fund.
- 2. **High Purity:** High purity lithium carbonate samples (99.9%) with very low impurities has been produced from lithium brines from Lake's flagship project (refer ASX announcement 9 January 2020 and October 2020). The growth of higher density batteries to drive the latest electric vehicles has significantly increased demand for a high purity product with low impurities, and the process delivers this consistently for a premium price.
- 3. **Prime Location, Large Projects**: Lake's projects are located in the Lithium Triangle, in Argentina, the prime location globally for low cost lithium production from large projects. The Kachi project covers 70,000 ha over a salt lake south of Livent's lithium operation with a large indicated and inferred resource of 4.4 Mt LCE (Indicated 1.0Mt, Inferred 3.4Mt) (refer ASX announcement 27 November 2018). A pre-feasibility study (PFS) by a tier 1 engineering firm over Kachi shows a large, long-life low-cost potential operation with competitive production costs at the lower end of the cost curve similar to current lithium brine producers (refer ASX announcement 28 April 2020).
- 4. **Sustainable ESG Benefit**: The environmental footprint is far smaller than conventional brine evaporation processes or of hard rock mining. By using a benign water treatment process to produce lithium, Lake avoids any mining and returns virtually all water (brine) to its source without changing its chemistry (apart from lithium removal). This avoids the "water politics" in arid environments and is a better outcome for local communities. Tier 1 electric vehicle makers and Tier 1 battery makers have been seeking more sustainable, responsibly sourced materials in their supply chain which has driven demand for our products.

An innovative direct extraction technique, based on a well-used ion exchange water treatment method, has been tested for over 18 months in partnership with Lilac Solutions, with a pilot plant module operating on Kachi brines and has shown 80-90% recoveries. Battery quality lithium carbonate (99.9% purity) has been produced from Kachi brine samples with very low impurities (Fe, B, with <0.001 wt%) (refer ASX announcement 9 January 2020). Test results were incorporated into a Pre-Feasibility Study (PFS). The Lilac pilot plant module in California is producing samples for downstream participants. A pilot plant /demonstration plant on site is planned to produce larger battery quality lithium samples. Discussions are advanced with downstream entities, as well as financiers, to develop the project.

On 3 July 2020, Lake Resources announced that the first samples of lithium chloride had been successfully produced from Lilac Solution's direct extraction pilot plant module, supporting the scale-up from previously successful lab-scale work. On 20 October 2020, independent laboratory, Hazen Research, produced the first samples of high purity battery quality lithium carbonate for testing in a 622 battery by Novonix. Hazen will produce further samples for downstream supply chain participants and off-takers. The sector continues to see positive news around demand and issues have been highlighted with a pending shortfall of supply of clean battery quality lithium.

Lake's other projects include the Olaroz and Cauchari brine projects, located adjacent to major world class brine projects in production or construction, including Orocobre's Olaroz lithium production and adjoins the impending production of Ganfeng Lithium/Lithium Americas' Cauchari project. Lake's Cauchari project has shown lithium brines over 506m interval with high grades averaging 493 mg/L lithium (117-460m) with up to 540 mg/L lithium. These results are similar to lithium brines in adjoining leases and infer an extension and continuity of these brines into Lake's leases (refer ASX announcements 28 May, 12 June 2019).

For more information on Lake, please visit http://www.lakeresources.com.au/home/







TAL NUN	MBER TENEMENTS:	TOTAL AREA TENEMENTS:				
77		208,420	На			
EF 🔻	TENEMENT NAME +1	NUMBER -	AREA H.	INTEREST -	PROVINCE -	STATI
-1 ·	OLAROZ - CAUCHARI AREA	NOMBLIC	AILATI	INTEREST	TROVINCE	JIAIC
	Cauchari Bajo I	2156-D-2016	354	100	Jujuy	Granted
	Cauchari Bajo II	2157-D-2016	354	100	Jujuy	Granted
	Cauchari Bajo III	2158-D-2016	122	100	Jujuy	Granted
	Cauchari Bajo V	2154-D-2016	946	100	Jujuy	Granted
	Cauchari West I	2160-D-2016	1936	100		Granted
					Jujuy	
	Olaroz Centro II	2164-D-2016	268	100	Jujuy	Applica
	Olaroz East II	2168-D-2016	2072	100	Jujuy	Granted
	MASA 12	2234-M-2016	2901	100	Jujuy	Granted
	MASA 13	2235-M-2016	3000	100	Jujuy	Granted
	MASA 14	2236-M-2016	3000	100	Jujuy 	Granted
	MASA 15	2237-M-2016	3000	100	Jujuy	Granted
	PASO AREA					
	Paso III	2137-P-2016	2787	100	Jujuy	Granted
	Paso VI	2140-P-2016	2208	100	Jujuy	Granted
	Paso X	2144-P-2016	1833	100	Jujuy	Grante
	MASA 9	2231-M-2016	2978	100	Jujuy	Grante
	MASA 16	2238-M-2016	2114	100	Jujuy	Granted
	MASA 17	2239-M-2016	2891	100	Jujuy	Grante
	MASA 18	2240-M-2016	3000	100	Jujuy	Granted
	MASA 19	2241-M-2016	3000	100	Jujuy	Granted
	MASA 20	2242-M-2016	3000	100	Jujuy	Granted
	MASA 21	2243-M-2016	2815	100	Jujuy	Granted
	MASA 22	2244-M-2016	1460	100	Jujuy	Applica
	MASA 23	2245-M-2016	1540	100	Jujuy	Applica
	23 Mining leases		47579 Ha			
	CATAMARCA PEGMATITES					
	Petra I	Cateo 52-B-2016	10000	100	Catamarca	In Proce
	Petra II	Cateo 51-B-2016	9523	100	Catamarca	In Proce
	Petra III	Cateo 49-B-2016	9528	100	Catamarca	In Proce
	Petra IV	Cateo 50-B-2016	8939	100	Catamarca	In Proce
	CAT 1 (Petra VIII)	Cateo 93-B-2016	1000	100	Catamarca	In Proc
	CAT 2 (Petra VII)	Cateo 94-B-2016	8475	100	Catamarca	In Proce
	CAT 3 (Petra VI)	Cateo 95-B-2016	10000	100	Catamarca	In Proce
	CAT 4 (Petra V)	Cateo 98-B-2016	10000	100	Catamarca	In Proce
	La Aguada 1	Mina 116-B-2016	2499	100	Catamarca	Granted
	La Aguada 2	Mina 117-B-2016	2950	100	Catamarca	Granted
	La Aguada 3	Mina 99-B-2016	1558	100	Catamarca	In Proce
	La Aguada 4	Mina 173-B-2016	2929	100	Catamarca	Grante
	La Aguada 5	Mina 172-B-2016	2866	100	Catamarca	Granted
	La Aguada 6	Mina 174-B-2016	2999	100	Catamarca	Granted
	La Aguada 7	Mina 137-B-2016	2919	100	Catamarca	Granted
	La Aguada 8	Mina 139-B-2016	1587 2607	100	Catamarca	Granted
	La Aguada 9	Mina 138-B-2016		100	Catamarca	Granted



CLEANER LITHIUM SE ELECTRIC WORLD

TAL NUN	IBER TENEMENTS:	TOTAL AREA TENEMENTS:				
77		208,420	На			
REF 🔻	TENEMENT NAME +1	NUMBER -	AREA H	INTERES -	PROVINCE -	STATI
	KACHI AREA					
	Kachi Inca	13-M-2016	858	100	Catamarca	Granted
	Kachi Inca I	16-M-2016	2881	100	Catamarca	Granted
	Kachi Inca II	17-M-2016	2823	100	Catamarca	Granted
	Kachi Inca III	47-M-2016	3354	100	Catamarca	Granted
	Kachi Inca 4	107-M-2017	2723	100	Catamarca	In Proce
	Kachi Inca V	45-M-2016	305	100	Catamarca	Granted
	Kachi Inca VI	44-M-2016	110	100	Catamarca	Granted
	Dona Amparo I	22-M-2016	3000	100	Catamarca	Granted
	Dona Carmen	24-M-2016	874	100	Catamarca	Granted
	Debbie I	21-M-2016	1501	100	Catamarca	Granted
	Divina Victoria I	25-M-2016	1266	100	Catamarca	Granted
	Daniel Armando	23-M-2016	2116	100	Catamarca	Granted
	Daniel Armando II	97-M-2016	1388	100	Catamarca	Granted
	Escondidita	131-M-2018	373	100	Catamarca	In Proce
	Irene	28-M-2018	2250	100	Catamarca	In Proce
	Maria Luz	34-M-2017	2425	100	Catamarca	Granted
	Maria I	140-M-2018	889	100	Catamarca	In Proce
	Maria II	14-M-2016	888	100	Catamarca	Granted
	Maria III	15-M-2016	1396	100	Catamarca	Granted
	Morena 1	72-M-2016	3025	100	Catamarca	Granted
	Morena 2	73-M-2016	2989	100	Catamarca	Granted
	Morena 3	74-M-2016	3007	100	Catamarca	Granted
	Morena 5	97-M-2017		100	_	In Proce
		75-M-2016	1415 1606	100	Catamarca	
	Morena 6				Catamarca	Granted
	Morena 7	76-M-2016	2805	100	Catamarca	Granted
	Morena 8	77-M-2016	2961	100	Catamarca	Granted
	Morena 11	201-M-2018	815	100	Catamarca	In Proce
	Morena 12	78-M-2016	2704	100	Catamarca	Granted
	Morena 13	79-M-2016	3024	100	Catamarca	Granted
	Morena 15	162-M-2017	2559	100	Catamarca	Granted
	Pampa I	129-S-2013	2312	100	Catamarca	Granted
	Pampa II	128-M-2013	1119	100	Catamarca	Granted
	Pampa III	130-M-2013	477	100	Catamarca	Granted
	Pampa IV	78-M-2017	2569	100	Catamarca	In Proce
	Parapeto 1	133-M-2018	2504	100	Catamarca	In Proce
	Parapeto 2	134-M-2018	1259	100	Catamarca	In Proce
	Parapeto 3	132-M-2018	1892	100	Catamarca	In Proce

Appendix 5B

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

LAKE RESOURCES N.L.

ABN Quarter ended ("current quarter")

49 079 471 980 30 September 2020

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (3 months) \$A'000
1.	Cash flows from operating activities		
1.1	Receipts from customers	-	-
1.2	Payments for		
	(a) exploration & evaluation (if expensed)	-	-
	(b) development	-	-
	(c) production	-	-
	(d) staff costs	(122)	(122)
	(e) administration and corporate costs	(291)	(291)
1.3	Dividends received (see note 3)	-	-
1.4	Interest received	-	-
1.5	Interest and other costs of finance paid	-	-
1.6	Income taxes paid	-	-
1.7	Government grants and tax incentives	-	-
1.8	Other (provide details if material)	-	-
1.9	Net cash from / (used in) operating activities	(413)	(413)

2.	Cash flows from investing activities		
2.1 Payments to acquire:			
	(a) entities	-	-
	(b) tenements	-	-
	(c) property, plant and equipment	-	-
	(d) exploration & evaluation (if capitalised)	(338)	(338)
	(e) investments	-	-
	(f) other non-current assets	-	-

Con	solidated statement of cash flows	Current quarter \$A'000	Year to date (3 months) \$A'000
2.2	Proceeds from the disposal of:	-	-
	(a) entities	-	-
	(b) tenements	-	-
	(c) property, plant and equipment	-	-
	(d) investments	-	-
	(e) other non-current assets	-	-
2.3	Cash flows from loans to other entities	-	-
2.4	Dividends received (see note 3)	-	-
2.5	Other (provide details if material)	-	-
2.6	Net cash from / (used in) investing activities	(338)	(338)

3.	Cash flows from financing activities		
3.1	Proceeds from issues of equity securities (excluding convertible debt securities)	3,955	3,955
3.2	Proceeds from issue of convertible debt securities	-	-
3.3	Proceeds from exercise of options	-	-
3.4	Transaction costs related to issues of equity securities or convertible debt securities	(170)	(170)
3.5	Proceeds from borrowings	200	200
3.6	Repayment of borrowings	(200)	(200)
3.7	Transaction costs related to loans and borrowings	-	-
3.8	Dividends paid	-	-
3.9	Other (provide details if material)	-	-
3.10	Net cash from / (used in) financing activities	3,785	3,785

4.	Net increase / (decrease) in cash and cash equivalents for the period		
4.1	Cash and cash equivalents at beginning of period	55	55
4.2	Net cash from / (used in) operating activities (item 1.9 above)	(441)	(441)
4.3	Net cash from / (used in) investing activities (item 2.6 above)	(338)	(338)
4.4	Net cash from / (used in) financing activities (item 3.10 above)	3,785	3,785

Con	solidated statement of cash flows	Current quarter \$A'000	Year to date (3 months) \$A'000
4.5	Effect of movement in exchange rates on cash held	-	-
4.6	Cash and cash equivalents at end of period	3,062	3,062

5.	Reconciliation of cash and cash equivalents at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts	Current quarter \$A'000	Previous quarter \$A'000
5.1	Bank balances	3,062	55
5.2	Call deposits	-	-
5.3	Bank overdrafts	-	-
5.4	Proceeds from SPP held in trust pending issue of shares	-	-
5.5	Cash and cash equivalents at end of quarter (should equal item 4.6 above)	3,062	55

6.	Payments to related parties of the entity and their associates	Current quarter \$A'000
6.1	Aggregate amount of payments to related parties and their associates included in item 1	112
6.2	Aggregate amount of payments to related parties and their associates included in item 2	-

Note: if any amounts are shown in items 6.1 or 6.2, your quarterly activity report must include a description of, and an explanation for, such payments

7.	Financing facilities	
	Note: the term "facility" includes	

Note: the term "facility' includes all forms of financing arrangements available to the entity.

Add notes as necessary for an understanding of the sources of finance available to the entity.

- 7.1 Loan facilities
- 7.2 Credit standby arrangements
- 7.3 Other (please specify)
- 7.4 Total financing facilities

Total facility amount at quarter end \$A'000	Amount drawn at quarter end \$A'000
-	-
-	0
4,500	0
4,500	0

7.5 Unused financing facilities available at quarter end

4,500

7.6 Include in the box below a description of each facility above, including the lender, interest rate, maturity date and whether it is secured or unsecured. If any additional financing facilities have been entered into or are proposed to be entered into after quarter end, include a note providing details of those facilities as well.

The Company entered into a Controlled Placement Agreement (the Agreement) in August 2018 with Acuity Capital Pty Ltd. The Agreement provides the Company with up to \$4.5 million of standby capital for a 29-month period from August 2018. Under the Agreement, the Company retains full control of all aspects of the placement process, having sole discretion as to whether or not to utilise the Agreement, the quantum of issued shares, the minimum issue price of shares and the timing of each placement tranche (if any). There are no requirements on the Company to utilise the Agreement and it may terminate the Agreement at any time, without cost or penalty. The current agreement will lapse in December 2020.

The Company continues to negotiate with parties interested in securing funding for other studies and works to advance the Kachi project through to construction finance.

8.	Estimated cash available for future operating activities	\$A'000
8.1	Net cash from / (used in) operating activities (Item 1.9)	(441)
8.2	Capitalised exploration & evaluation (Item 2.1(d))	(338)
8.3	Total relevant outgoings (Item 8.1 + Item 8.2)	(779)
8.4	Cash and cash equivalents at quarter end (Item 4.6)	3,062
8.5	Unused finance facilities available at quarter end (Item 7.5)	4,500
8.6	Total available funding (Item 8.4 + Item 8.5)	7,562
8.7	Estimated quarters of funding available (Item 8.6 divided by Item 8.3)	9.71

- 8.8 If Item 8.7 is less than 2 quarters, please provide answers to the following questions:
 - Does the entity expect that it will continue to have the current level of net operating cash flows for the time being and, if not, why not?

Answer: n/a.

2. Has the entity taken any steps, or does it propose to take any steps, to raise further cash to fund its operations and, if so, what are those steps and how likely does it believe that they will be successful?

Answer: n/a

3. Does the entity expect to be able to continue its operations and to meet its business objectives and, if so, on what basis?

	Answer: n/a.
1	

Compliance statement

- This statement has been prepared in accordance with accounting standards and policies which comply with Listing Rule 19.11A.
- 2 This statement gives a true and fair view of the matters disclosed.

Date: 29 October 2020

Authorised by: By the Board

(Name of body or officer authorising release – see note 4)

Notes

- 1. This quarterly cash flow report and the accompanying activity report provide a basis for informing the market about the entity's activities for the past quarter, how they have been financed and the effect this has had on its cash position. An entity that wishes to disclose additional information over and above the minimum required under the Listing Rules is encouraged to do so.
- 2. If this quarterly cash flow report has been prepared in accordance with Australian Accounting Standards, the definitions in, and provisions of, AASB 6: Exploration for and Evaluation of Mineral Resources and AASB 107: Statement of Cash Flows apply to this report. If this quarterly cash flow report has been prepared in accordance with other accounting standards agreed by ASX pursuant to Listing Rule 19.11A, the corresponding equivalent standards apply to this report.
- Dividends received may be classified either as cash flows from operating activities or cash flows from investing activities, depending on the accounting policy of the entity.
- 4. If this report has been authorised for release to the market by your board of directors, you can insert here: "By the board". If it has been authorised for release to the market by a committee of your board of directors, you can insert here: "By the [name of board committee eg Audit and Risk Committee]". If it has been authorised for release to the market by a disclosure committee, you can insert here: "By the Disclosure Committee".
- If this report has been authorised for release to the market by your board of directors and you wish to hold yourself out as complying with recommendation 4.2 of the ASX Corporate Governance Council's Corporate Governance Principles and Recommendations, the board should have received a declaration from its CEO and CFO that, in their opinion, the financial records of the entity have been properly maintained, that this report complies with the appropriate accounting standards and gives a true and fair view of the cash flows of the entity, and that their opinion has been formed on the basis of a sound system of risk management and internal control which is operating effectively.