

Efficient disruptive clean technology

ASX Small and Mid-Cap Conference 2020

Steve Promnitz - Managing Director

9 September 2020



ASX:LKE FRA:LK1 OTC:LLKKF



Disclaimer

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Forward Looking Statements

Certain statements contained in this presentation, including information as to the future financial performance of the projects, are forward-looking statements. Such forward-looking statements are necessarily based upon a number of estimates and assumptions that, while considered reasonable by Lake Resources N.L. are inherently subject to significant technical, business, economic, competitive, political and social uncertainties and contingencies: involve known and unknown risks and uncertainties and other factors that could cause actual events or results to differ materially from estimated or anticipated events or results, expressed or implied, reflected in such forward-looking statements; and may include, among other things, statements regarding targets, estimates and assumptions in respect of production and prices, operating costs and results, capital expenditures, reserves and resources and anticipated flow rates, and are or may be based on assumptions and estimates related to future technical, economic, market, political, social and other conditions and affected by the risk of further changes in government regulations, policies or legislation and that further funding may be required, but unavailable, for the ongoing development of Lake's projects. Lake Resources N.L. disclaims any intent or obligation to update any forward-looking statements, whether as a result of new information, future events or results or otherwise. The words "believe", "expect", "anticipate", "indicate", "contemplate", "target", "plan", "intends", "continue", "budget", "estimate", "may", "will", "schedule" and similar expressions identify forward-looking statements. All forward-looking statements made in this presentation are qualified by the foregoing cautionary statements. Investors are cautioned that forward-looking statements are not guarantees of future performance and accordingly investors are cautioned not to put undue reliance on forward-looking statements due to the inherent uncertainty therein. Lake does not undertake to update any forwardlooking information, except in accordance with applicable securities laws.

Competent Person Statement

The information contained in this presentation relating to Exploration Results, Mineral Resource estimates and the associated Indicated Resource , which underpins the production target 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 presentation of this information in the form and context in which it appears. The information in this presentation is an accurate representation of the available data to date from initial exploration at the Kachi project and initial exploration at the Cauchari project.



Clean Technology – No Mining.

- Clean Technology Adaptation of known water treatment method; No mining
- Disruptive Direct Extraction with Tech Partner, Lilac Solutions Efficient lithium separation from salty water (brine); cost competitive vs traditional process; Technology partner backed by Bill Gates-led Breakthrough Energy fund, MIT's The Engine
- **High Purity Lithium** 99.9% purity battery quality lithium carbonate Rising demand; ~20% compound growth for lithium to 2028; only 50-60% of production is battery quality
- Responsibly Sourced; Sustainable Returns 99% brine to source
- Path to Commercialisation Pilot plant module proven scale-up from lab testing



Direct extraction – Clean Technology

Disruptive – No Evaporation or Mining

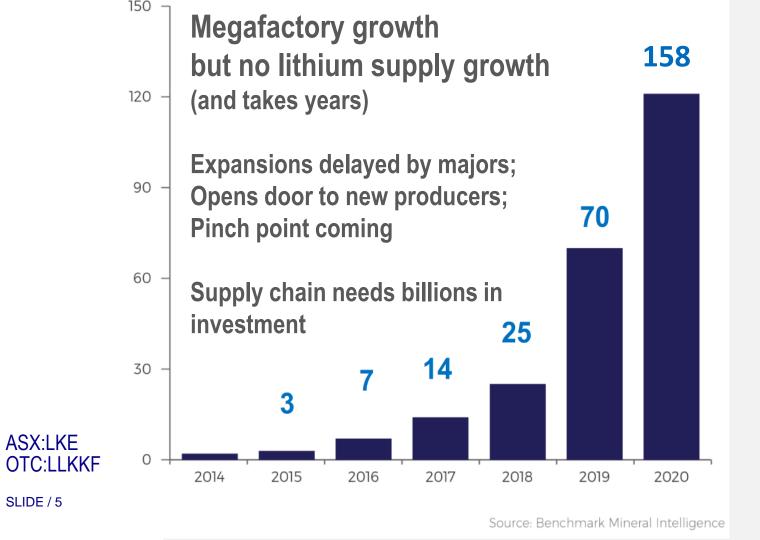
New adaptation to known technology in water treatment

Efficient - lithium removed from brine; no evaporation

- Faster, with higher recoveries
- High purity products In demand
- Cost competitive and scalable
- Environmentally friendly Returns brine to source; no change to chemistry

Why Lithium? Growth in Lithium Batteries; Limited New Supply

From 3 to 158 Battery Megafactories in 5 years – Yet underinvestment in supply of battery materials





Source: Benchmark Mineral Intelligence

Why Lithium? Future Demand Growth for Sustainable Supply

Need 18 times more Lithium Production by 2030; 60x by 2050; Growth in sustainable high quality



EU Commission Report – 3 September 2020 "Action Plan on Critical Raw Materials"

Need 18 times more Lithium Production by 2030 ~60 times more lithium by 2050;
For e-mobility and renewable energy storage

1st time lithium added to critical raw materials list

US\$20-50Bn needs to be invested to meet demand in new battery materials supply in next 10 years

Growth in high quality products
Growth in sustainable, non-mining method

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Source: European Commission (mid range selected); Financial Times 31 August 2020; Benchmark Mineral Intelligence



Sustainable Lithium. Responsibly Sourced

Solution for more sustainable lithium in EV's

- Electric Vehicle Makers, EU Seek More Sustainable Lithium Volkswagen, Daimler, BMW, EU want more responsible sourcing of battery materials (Reuters)
- Direct extraction is not mining and avoids water politics Known water treatment process (since 1940's) drastically cuts water use (Bloomberg)
- Lilac is backed by known high profile investors Lilac supported by Bill Gates-led Breakthrough fund, MIT's The Engine Fund
- Pilot plant modules demonstrate process works and is scalable Pilot plant modules in California processing Kachi brines



Sustainable Lithium.

ESG Targets for the Future – EU, UN

EU







CLIMATE CHANGE ADAPTATION SUSTAINABLE AND PROTECTION OF WATER AND MARINE RESOURCES

UN





























UNGP

United Nations Guiding Principles on Business and Human Rights

SDGs

Sustainable Development Goals

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Direct extraction. Ion Exchange Process Lilac Solutions

ION

EXCHANGE

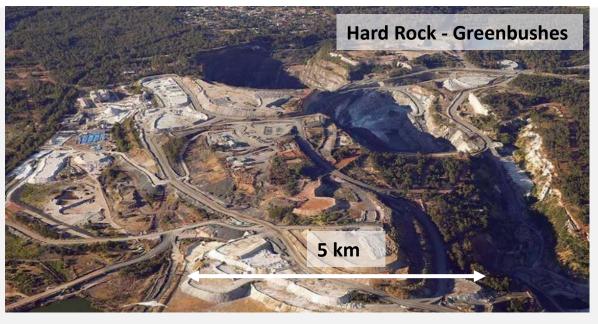
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Disruptive Technology (3 hrs to 30-60,000ppm vs 1-2 years) Saves time and money - Faster production. Recoveries doubled **Lower impurities** – Higher purity as only lithium is extracted. **Sustainable solution** – Brine reinjected; no change to chemistry 3 HOURS To produce **Concentrate** vs 12-24 mths 30-60,000 PPM LICONCENTRATE LITHIUM CARBONATE PLANT **BRINE RETURNED** AND/OR LITHIUM HYDROXIDE PLANT WITHOUT CHANGES **EXCEPT LITHIUM REMOVAL BRINE RESOURCE**

Direct extraction – Small Environmental Footprint

Lilac Direct Extraction Footprint vs Brine Evaporation Ponds (Atacama) and Hard Rock Mining (Greenbushes)





ASX:LKE OTC:LLKKF Direct Extraction - Kachi

0.5 km

Direct Extraction:

Returns

brine to source



Prime Location – Next to Large Producers.

Lithium Triangle: 40% of world's lithium production at the lowest cost.

5 largest producers all have operations ALB, SQM, LTHM + Tianqui, Ganfeng

Lake has a large project at Kachi 3 other brine projects





Kachi Project.

100% Lake owned

Major brine resource - Top10

4.4 Mt LCE Total Resource

(1Mt LCE Indicated Resource; 3.4 Mt Inferred)

PFS only uses 20% of resource Open at depth and laterally

70,000 hectares of leases (11x Size of Manhattan Island)

It's Not About Grade -

In industrial chemistry, 'low impurities' is king









Kachi PFS - High Margin Pre-Feasibility Results

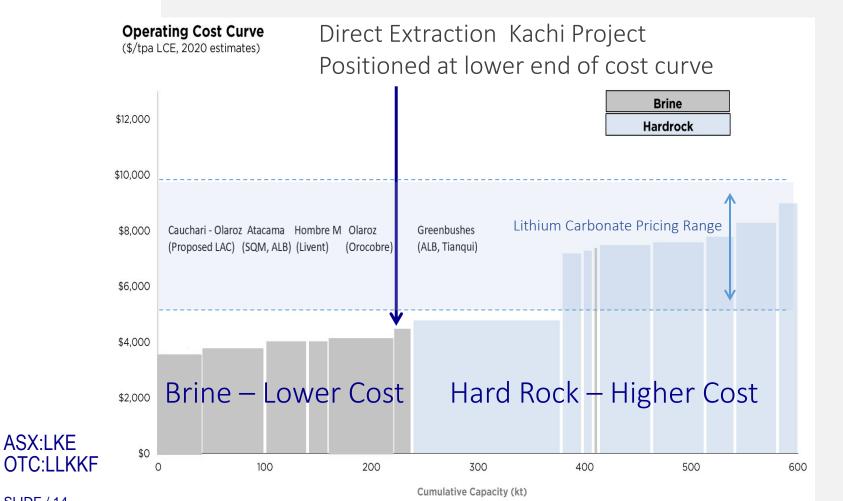
• Long Life, High Value Project - 25 year production 25,500 tpa LCE**; US\$1050 million project value* (NPV @ 8% discount rate, Pre-tax)

- High Margin Lithium Production –
- 55% Operating Margin; US\$465 million EBITDA in 1st 3 years*
- **High Purity** 99.9% purity battery grade Li₂CO₃
- Cost Competitive among Brine Producers –
 Operating cost US\$4170/t Li2CO3
- Prime Location Large scalable project in world-class region





Cost Competitive Direct Extraction Consistent High Value Low Impurity Product





Chemical Component	Actual (wt%)	Target
Lithium (Li)	99.9	99.5 Min
Sodium (Na)	0.024	0.025 Max
Magnesium (Mg)	<0.001	0.008 Max
Calcium (Ca)	0.0046	0.005 Max
Iron (Fe)	<0.001	0.001 Max
Silicon (Si)	<0.001	0.003 Max
Boron (B)	<0.001	0.005 Max

Source: LKE announcements 9/1/2020, 14/01/2020; 10/12/2018

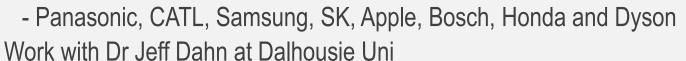
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Testing Lake's clean lithium in Batteries – Novonix State-of-the-art battery testing equipment

Novonix - leader in battery technology.

Tier 1 firms



- a ground breaking "name" in the battery tech space

Developed latest cathode & anode technology

Lake's lithium carbonate tested quickly, transparently

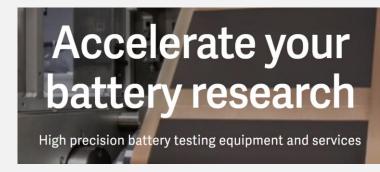
Demonstrate that Lake's product is truly battery quality

Accelerates discussions downstream

Only ~35% of lithium production qualified as battery quality by Tier 1 battery makers

Strengthens Lake's quality and ESG benefits







Production Timeline.

H1 - 2020

High purity samples

Kachi direct extraction pilot plant module – operating

Kachi PFS (Apr 2020) – Robust economics; cost competitive H2 – 2020, H1 - 2021

Kachi samples to battery makers for qualification purposes; testing by Novonix

Kachi – offtake and strategic partner discussions

Kachi – Initiate DFS, EISA, pilot plant to site

Complete DFS, approvals; construction finance

2016-19

Large Lease Area Pegged in 2016

Kachi – Large new discovery; major resource

Kachi – PFS commenced; Pilot plant initiated

Direct Extraction method – Testing

Cauchari – extended high grades; discovery

2022-2023

Kachi – Production

Kachi – 25,500tpa LCE; Capex US\$540m

Phased expansion from 10,000tpa LCE

Capex Reduced

Olaroz, Cauchari – Drill, Resource, PFS

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Experienced.

Lake has extensive development experience – both at the board level and local management



Steve Promnitz MANAGING DIRECTOR

Extensive project management experience in South America – geologist and finance experience – with major companies (Rio, Citi) and mid-tiers.



Stu Crow CHAIRMAN NON-EXEC

More than 25 years of experience (numerous public companies) and in financial services



Nick Lindsay
NON-EXEC DIRECTOR

30 years of experience in Argentina/Chile/Peru (PhD in Metallurgy & Materials Engineering); Major companies (Anglo) and taken companies from inception to development to acquisition in South America



Robert Trzebski NON-EXEC DIRECTOR

International mining executive; 30 years experience; operational, commercial and technical experience in global mining incl. Argentina. Extensive global contacts to assist Lake with project development. Chief Operating Officer of Austmine Ltd. Director Austral Gold.



LAKE RESOURCES (ASX:LKE, OTC:LLKKF)

Total Current Shares on Issue	777,128,624
Listed Options (10c) Jun 2021 Expiry Unlisted Options (4.6c) Oct 2022 Expiry Unlisted Options (8c) Feb 2022 Expiry Unlisted Options (9c) Jul 2021 Expiry	52,512,693 18,300,000 5,555,000 15,000,000

Market Data

Market Cap (\$A)	@ \$0.034/ sh (15 day VWAP, 4 Sept)	A \$26 million US\$19 million
Cash (\$A)	31 August 2020	A\$2.5 million
Secured debt		\$ 0
Share Price	52 week range	\$0.023 - 0.10/sh
Share Register	40% Top 30, High Net Worth Investors	







Orior Capital – Lake 'Incredibly Undervalued'

- Lake Undervalued vs Peers Robust financial metrics, advantages of direct extraction & lithium outlook: , Lake trading <2% NPV vs peers trading at around 20%; valuation of 29c per share
- Compelling, Cash-Generative Project Kachi to generate EBITDA US\$155m pa and EBITDA margin 55%, based on conservative lithium carbonate price of US\$11,000/t
- Significant and Sustainable Competitive Advantages Energy storage sector is increasingly demanding low impurities and product consistency
- It's Not About Grade In industrial chemistry, 'low impurities' is king and Kachi delivers
- **Supply-Side Constraints** Lithium demand rising as EV revolution continues, yet projects suffering cutbacks or delays; evaporation pond projects coming under environmental scrutiny



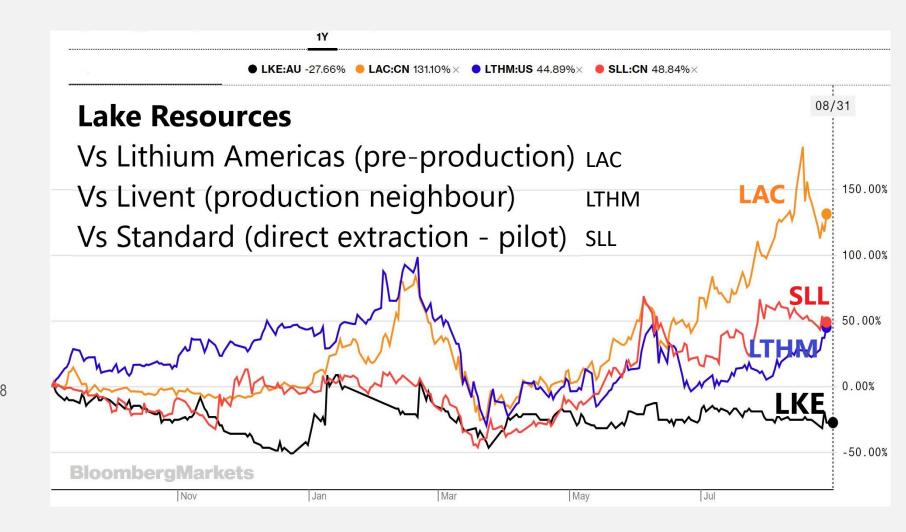
Lithium Producers Recently Uplifted

Developers yet to rise

Lake \$27m vs Peers \$50-120m market cap

Trading at <2%NPV₈ vs Peers 10-15% NPV₈

Research: LKE website





Clean High Purity Lithium - Unique Proposition.

- New Clean Technology for High Purity Lithium Growing need
- Responsibly Sourced & Sustainable Growing demand from EV makers, EU guidelines Enables a clean future; One of few new sustainable lithium suppliers
- 21st Century Solution to Batteries for EV's Lake's clean lithium being tested in latest batteries

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PFS - Kachi.

Appendix - PFS

Compelling Economics; High EBITDA Margin Cost Competitive; High Value Product

Key Financial Parameters	Values
NPV ₈ (NPV @ 8% discount rate) Pre-tax	US\$1,052 million (A\$1,660 million)*
NPV ₈ (NPV @ 8% discount rate) Post-tax	US\$748 million (A\$1,180 million)*
IRR pre-tax	25%
IRR post-tax	22%
EBITDA, annual	US\$155 million (A\$245 million)*
EBITDA margin	62%

Parameters	Values
Project Life	25 years
Production Rate – Lithium Carbonate	25,500 tonnes LCE per year**
Mineral Resource (Indicated)	1.01 Million tonne LCE
Recovery	83 %
Capital Investment (at start-up)	US\$544 million
Operating Cost (annual)	US\$107 million
Cash Cost (Opex, C1)	US\$4178/tonne LCE



Appendix – Mineral Resource – JORC Code 2012 Kachi Lithium brine Project.

KACHI LITHIUM BRINE PROJECT	MINERAL RESOURCE ESTIMATE					
JORC Code 2012 Edition	Indicated		Inferred		Total Resource	
Area, km²	17.1		158.3		175.4	
Aquifer volume, km³	6		41		47	
Brine volume, km³	0.65		3.2		3.8	
Mean drainable porosity %	10.9		7.5		7.9	
Element	Li	K	Li	K	Li	K
Weighted mean concentration, mg/L	289	5,880	209	4,180	211	4,380
Resource, tonnes	188,000	3,500,000	638,000	12,500,000	826,000	16,000,000
Lithium Carbonate Equivalent (LCE), tonnes	1,005,000		3,394,000		4,400,000	
Potassium Chloride, tonnes	6,705,000		24,000,000		30,700,000	
Lithium is converted to lithium carbonate (Li2CO3) with a conversion factor of 5.32 Potassium is converted to potassium chloride (KCI) with a conversion factor of 1.91						

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Appendix – Table 1 Report – JORC Code 2012.

	Section 1 - Sampling Techniques and Data	Criteria	Section 2 - Mineral Tenement and Land Tenure Status	Criteria	Section 3 – Estimation and Reporting of Mineral Resources
Sampling techniques	 Brine samples were taken from the diamond drill hole with a bottom of hole spear point during advance 	Mineral tenement and	 The Kachi Lithium Brine project is located approximately 100km south-southwest of Livent' (FMC's) 	Database integrity	Data was transferred directly from laboratory spreadsheets to the database. Data was checked for transcription errors once in the database to ensure coordinates, assay value.
	and using a straddle packer device to obtain representative samples of the formation fluid by purging	land tenure status	Hombre Muerto lithium operation and 45km south of Antofagasta de la Sierra in Catamarca province		 Data was checked for transcription errors once in the database to ensure coordinates, assay value and lithological codes were correct
	a volume of fluid from the isolated interval, to minimize the possibility of contamination by drilling fluid		of north western Argentina at an elevation of approximately 3,000m asl.		Data was plotted to check the spatial location and relationship to adjoining sample points
	then taking the sample. Low pressure airlift tests are used as well. The fluid used for drilling is brine		The project comprises approximately 70,462 Ha in thirty seven mineral leases (minas) of which five		Duplicates and standards have been used in the assay process
	sourced from the drill hole and the return from drillhole passes back into the excavator dug pit lined		leases (9,445 Ha) are granted for drilling, twenty two leases are granted for initial exploration (44,328		 Brine assays and porosity test work have been analysed and compared with other publicly availa
	to avoid leakage.				information for reasonableness
	The brine sample was collected in a clean plastic bottle (1 litre) and filled to the top to minimize air		Ha) and ten leases (16,689 Ha) are applications pending granting.		 Comparison of original and current datasets were made to ensure no lack of integrity
	space within the bottle. A duplicate was collected at the same time for storage and submission of		The tenements are believed to be in good standing, with statutory payments completed to relevant	Site visits	 The Competent Person visited the site multiple times during the drilling and sampling program
	duplicates to the laboratory. Each bottle was taped and marked with the sample number.		government departments.		Some improvements to procedures were made during visits by the Competent Person
	 Drill core in the hole was recovered in 1.5 m length core runs in core split tubes to minimize sample 	Exploration by other	 Marifil Mines Ltd conducted sparse near-surface pit sampling of groundwater at depths less than 1m 	Geological Interpretation	 The geological model is continuing to develop. There is a high level of confidence in the interpreta
	disturbance.	parties	during 2009.		of the exploration results to date. There are relatively consistent geological units with relati
	Drill core was undertaken to obtain representative samples of the sediments that host brine.		 Samples were taken from each hole and analysed at Alex Stewart laboratories in Mendoza Argentina. 		Any alternative interpretations are restricted to smaller scale variations in sedimentology, related
Orilling techniques	Diamond drilling with an internal (triple) tube was used for drilling. The drilling produced cores with		 Results were reported in an NI 43-101 report by J. Ebisch in December 2009 for Marifil Mines Ltd. 		changes in grain size and fine material in units
rining techniques	variable core recovery associated with unconsolidated material in particularly sandy intervals		NRG Metals Inc commenced exploration in adjacent leases under option. Two diamond drillholes		Data used in the interpretation includes rotary and diamond drilling methods
	Recovery of these more friable sediments is more difficult with diamond drilling, as this material can		intersected lithium bearing brines. The initial drillhole intersected brines from 172-198m and below		 Drilling depths and geology encountered has been used to conceptualise hydro-stratigraphy
	he washed from the core barrel during drilling				 Sedimentary processes affect the continuity of geology, whereas the concentration of lithium
			with best results to date of 15m at 229 mg/L Lithium, reported in December 2017. The second hole,		potassium and other elements in the brine is related to water inflows, evaporation and brine evolu
	Rotary drilling has used 8.5" or 10" tricone bits and has produced drill chips.		drilled to 400 metres in mid-2018, became blocked at 100 metres and could not be sampled. A VES		in the Salt Lake.
	Brine has been used as drilling fluid for lubrication during drilling.		ground geophysical survey was completed prior to drilling. A NI 43-101 report was released in February	Dimensions	 The lateral extent of the resource has been defined by the boundary of the Company's properties.
rill sample recovery	 Diamond drill core was recovered in 1.5m length intervals in the drilling triple (split) tubes. Appropriate 		2017.		brine mineralisation subsequently covers 175 km2
	additives were used for hole stability to maximize core recovery. The core recoveries were measured		No other exploration results were able to be located		 The top of the model coincides with the topography obtained from the Shuttle Radar Topography
	from the cores and compared to the length of each run to calculate the recovery. Chip samples are	Geology	The known sediments within the salar consist of salt/halite, clay, sand and silt horizons, accumulated		Mission (SRTM). The original elevations were locally adjusted for each borehole collar with the n
	collected for each metre drilled and stored in segmented plastic boxes for rotary drill holes.	Geology	in the salar from terrestrial sedimentation and evaporation of brines.		accurate coordinates available. The base of the resource is limited to a 400 m depth. The basen rocks underlying the Salt Lake sediments have been intercepted in drilling
	 Brine samples were collected at discrete depths during the drilling using a double packer over a 1 m 		in the salar from terrestrat seamentation and craporation of armest		 The resource is defined to a depth of 400 m below surface, with the exploration target immedia
	interval (to isolate intervals of the sediments and obtain samples from airlifting brine from the		 Brines within the Salt Lake are formed by solar concentration, interpreted to be combined with warm 		extending beyond the aerial extent of the resource
	sediments within the packer).		geothermal fluids, with brines hosted within sedimentary units.	Estimation and modelling	No grade cutting or capping was applied to the model
	As the brine (mineralisation) samples are taken from inflows of the brine into the hole (and not from		 Geology was recorded during the diamond drilling and from chip samples in rotary drill holes. 	techniques	 No assumptions were made about correlation between variables. Lithium and potassium v
	the drill core – which has variable recovery) they are largely independent of the quality (recovery) of	Drill hole Information	15 drill holes completed, totalling 3150 metres with varying depths up to 403 metres.		estimated independently
	the core samples. However, the permeability of the lithologies where samples are taken is related to	S. II note injurnation	 15 drill noies completed, totalling 3150 metres with varying depths up to 403 metres. Lithological data was collected from the holes as they were drilled and drill cores or chip samples were 		The geological interpretation was used to define each geological unit and the property limit was used.
	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.		 Lithological data was collected from the noies as they were drilled and drill cores or chip samples were retrieved. Detailed geological logging of cores is ongoing. 		to enclose the reported resources.
to -			All drill holes are vertical, (dip -90, azimuth 0 degrees).	Moisture	 Moisture content of the cores was not Measured (porosity and density measurements were may
gging	Sand, clay, silt, salt and cemented rock types was recovered in a triple tube diamond core drill tube, or	Data aggregation	Assay averages have been provided where multiple sampling occurs in the same sampling interval.		but as brine will be extracted by pumping not mining this is not relevant for the resource estimation
	as chip samples from rotary drill holes, and examined for geologic logging by a geologist and a photo	methods	- Assay averages have been provided where mattiple sampling becausin the same sampling interval		 Tonnages are estimated as elemental lithium and potassium dissolved in brine.
	taken for reference.	Relationship hetween	Mineralisation interpreted to be horizontally lying and drilling perpendicular to this.	Cut-off parameters	No cut-off grade has been applied
	Diamond holes are logged by a senior geologist who also supervised taking of samples for laboratory	mineralisation widths	- which and the process to be noticed that yilling and all ming perpendicular to this	Mining factors or	The resource has been quoted in terms of brine volume, concentration of dissolved elements.
	porosity analysis as well as additional physical property testing.	and intercept lengths		assumptions	contained lithium and potassium and their products lithium carbonate and potassium chloride.
	 Logging is both qualitative and quantitative in nature. The relative proportions of different lithologies 	Diagrams	A drill hole location plan is provided showing the locations of the drill platforms, Individual drill		 No mining or recovery factors have been applied although the use of the specific yield (drainal
	which have a direct bearing on the overall porosity, contained and potentially extractable brine are		locations are provided in Table 1.		porosity) is used to reflect the reasonable prospects for economic extraction with the proposed min
	noted, as are more qualitative characteristics such as the sedimentary facies and their relationships.	Balanced reporting	Brine assay results are available from 15 drill holes from the drilling to date, reported here.		methodology. (Recoveries of 83% lithium have been used in the PFS for the direct processing meth
	When cores are split for sampling they are photographed.	Other substantive	There is no other substantive exploration data available regarding the project.	-	 Dilution of brine concentrations may occur over time and typically there are lithium and potassi
ub-sampling techniques	Brine samples were collected by packer and spear sampling methods, over a metre. Low pressure airlift	exploration data	• There is no other substantive exploration data available regarding the project.		losses in both the storage ponds and processing plant in brine extraction operations. However
nd sample preparation	tests are used as well to purge test interval and gauge potential yields.	Further work	Further water well drilling is planned to expand the resource and test pumping rates.	-	potential dilution will be estimated in the groundwater model simulating brine extraction. The conceptual mining method is recovering brine from the Salt Lake via a network of wells.
	The brine sample was collected in one-litre sample bottles, rinsed and filled with brine. Each bottle was	7 Grener Work	ruther water well drilling is planned to expand the resource and test pumping rates.		 The conceptual mining method is recovering brine from the Sait Lake via a network of wells, the established practice on existing lithium and potash brine projects.
	taped and marked with the sample number.				 Detailed hydrological studies of the lake are being undertaken (groundwater modelling) to define
Quality of assay data and					extractable resources and potential extraction rates.
aboratory tests				Metallurgical factors or	Lithium carbonate is targeted as the commercial product
aboratory tests	to conduct the assaying of the brine samples collected as part of the sampling program. The SGS			assumptions	 It would be obtained by the brines being subjected to direct lithium extraction (ionic exchange a
	laboratory in Buenos Aires has also been used for both primary and check samples. They also analysed				reverse osmosis) to produce a high grade LiCl eluate (30,000 to 60,000 mg/L lithium), which
	blind control samples and duplicates in the analysis chain.				processed in a conventional lithium carbonate plant by reaction with sodium carbonate:
	The Alex Stewart/Norlab SA laboratory and the SGS laboratory are ISO 9001 and ISO 14001 certified,				LiCl + Na ₂ CO ₃ → Li ₂ CO ₃ + NaCl
	and are specialized in the chemical analysis of brines and inorganic salts, with experience in this field.				 Process work has been undertaken by Lilac Solutions, which is an expert laboratory in the treatment
	This includes the oversight of the experienced Alex Stewart Argentina S.A. laboratory in Mendoza,				brines by ion exchange.
	Argentina, which has been operating for a considerable period.				 Bench tests include short and long-term tests using ion exchange media and brine from Kachi establish recovery, reagent consumption, and engineering parameters used in the PFS
	 The quality control and analytical procedures used at the Alex Stewart/Norlab SA laboratory or SGS 				Analyses of solutions by ICP and includes the use of standards
	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.				The longevity of the ion exchange media has been tested over 1000 cycles, or six months
					Lithium carbonate of high purity and low impurities has been produced which can be conside
erification of sampling	 Field duplicates, standards and blanks will be used to monitor potential contamination of samples and 				equivalent to metallurgical test work) is being carried out on the brine following initial test work.
nd assaying	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				Pilot plant module test-work has commenced using Kachi brine.
	will be monitored by the insertion of standards, or reference samples, and by check analysis at an independent (or umpire) laboratory.			Environmental factors as	 Impacts of a lithium operation at the Kachi project would include surface disturbance from
	Duplicate samples in the analysis chain were submitted to Alex Stewart/Norlab SA or SGS laboratories			assumptions	installation of extraction/processing facilities and associated infrastructure, accumulation of vari
	as unique samples (blind duplicates) during the process				salt tailings impoundments and extraction from brine and fresh water aquifers regionally
	Stable blank samples (distilled water) were used to evaluate potential sample contamination and will				Environmental management plan for the protection of wetlands, salt lakes, and surrounds
	be inserted in future to measure any potential cross contamination				Consultation with communities in the area of influence of the project
	Samples were analysed for conductivity using a hand-held Hanna pH/EC multiprobe.			Bulk density	Environmental impact analysis on-going
	Regular calibration using standard buffers is being undertaken.			Bulk density	 Density measurements were taken as part of the drill core assessment. This included determining density and particle density as well as field measurements of brine density. Note that no mining is
ocation of data points	The diamond drill hole sample sites and rotary drill hole sites were located with a hand-held GPS.				density and particle density as well as field measurements of brine density. Note that no mining is be carried out as brine is to be extracted by pumping and consequently sediments are not mined
	 The properties are located at the junction of the Argentine POSGAR grid system Zone 2 and Zone 3 				No bulk density was applied to the estimates because resources are defined by volume, rather than by tonnage.
	(UTM 19) and in WGS84 Zone 19 south.			Classification	The resource has been classified into the two possible resource categories based on confidence in
ata spacing and	 Brine samples were collected over 1m intervals every 6 m intervals within brine producing aquifers, 				estimation.
stribution	where this was possible.				 A Measured resource would reflect higher density drilling, with porosity samples from drill cores
ientation of data in	 The salt lake (salar) deposits that contain lithium-bearing brines generally have sub-horizontal beds 				well constrained vertical brine sampling in the holes.
ation to geological	and lenses that contain sand, gravel, salt, silt and clay. The vertical diamond drill holes will provide a				 The Indicated resource reflects the higher confidence in the brine sampling in the rotary drilling
ucture	better understanding of the stratigraphy and the nature of the sub-surface brine bearing aquifers				lower quality geological control from the drill cuttings.
mple security	 Samples were transported to the Alex Stewart/Norlab SA laboratory or SGS laboratory for chemical 				The Inferred resource underlying the Measured and/or Indicated resource reflects the limited dril
	analysis in sealed 1-litre rigid plastic bottles with sample numbers clearly identified. Samples were				to this depth together with the geophysics through the property
	transported by a trusted member of the team.				 In the view of the Competent Person the resource classification is believed to adequately reflect available data and is consistent with the suggestions of Houston et. al., 2011
	 The samples were moved from the drillhole sample site to secure storage at the camp on a daily basis. 			Audits or reviews	
	All brine sample bottles sent to the laboratory are marked with a unique label not related to the				The Mineral Resource was estimated by the Competent Person.
	location.			Discussion of relative	 An independent estimate of the resource was completed using a nearest neighbour estimate and
	 No audit of data has been conducted to date. However, the CP has been onsite periodically during the 			accuracy/ confidence	comparison of the results with the ordinary kriging estimate is below 0.3% for measured resources
view (and Audit)	programme. The review included drilling practice, geological logging, sampling methodologies for				below 3% for indicated resources which is considered to be acceptable. • Univariate statistics for global estimation bias, visual inspection against samples on plans and section
rview (and Audit)					
rview (and Audit)	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.				 Univariate statistics for global estimation bias, visual inspection against samples on plans and section swath plots in the north, south and vertical directions to detect any spatial bias shows a go