

Lake Resources NL: Lilac Advances Pilot Plant Testing

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Brisbane, Australia - Lithium explorer and developer [Lake Resources NL](#) (ASX:LKE) (FRA:LK1) announced today that testing has been progressing of lithium brine samples from Lake's Kachi Lithium Brine Project using its U.S. technology partner Lilac's direct extraction ion exchange pilot plant module in Oakland, California.

Kachi brine samples have been used to complete the commissioning of Lilac's pilot-scale ion exchange module.

Lilac will then process the brine to produce high-purity lithium chloride for conversion to battery-grade lithium carbonate, from April onwards for prospective off-takers.

Backed by leading U.S. sustainability-focused investors, Lilac has previously demonstrated its ability to produce battery grade lithium carbonate with 99.9% purity, and very low impurities, which is a high priority for battery/cathode producers capable of attracting premium pricing (refer ASX announcement 9 January 2020). A pre-feasibility study (PFS) for Kachi is expected to be completed in the next two to three weeks and is anticipated to show production costs in the lower part of the global cost curve.

Lake's Managing Director Steve Promnitz said: "Given the well-known billionaire backing of funds supporting Lake's technology partner, Lilac, we are well underway to demonstrate high purity battery grade lithium carbonate coming from the direct extraction process, which is what battery makers are seeking.

"Investors have asked how the process works and how this fits into Lake's strategy, so we have undertaken a video interview to explain this in context. Once again, I would like to thank existing and new investors for supporting our capital raising amid extremely uncertain market conditions - this is truly a vote of confidence in the future of Lake and sustainable, scalable direct extraction technology."

The direct extraction process has been undertaken using brines from Lake's 100% owned Kachi project. This offers a sustainable solution for downstream battery makers by extracting lithium from brines using ion exchange without traditional evaporation ponds. Brine is returned to the aquifer once the lithium has been extracted without changing the brine chemistry. This addresses increasing interest from electric vehicle makers (OEM's) and battery makers to demonstrate they have access to a sustainable scalable supply chain for raw materials.

To view the release, please visit:
<https://abnnewswire.net/Ink/P74ICVUP>

About Lake Resources NL:

[Lake Resources NL](#) (ASX:LKE) is a lithium exploration and development company focused on developing its three lithium brine projects and hard rock project in Argentina, all owned 100%. The leases are in a prime location among the lithium sector's largest players within the Lithium Triangle, where half of the world's lithium is produced. Lake holds one of the largest lithium tenement packages in Argentina (~200,000Ha) secured in 2016 prior to a significant 'rush' by major companies. The large holdings provide the potential to provide consistent security of supply demanded by battery makers and electric vehicle manufacturers.

The Kachi project covers 69,000 ha over a salt lake south of FMC's lithium operation and near Albemarle's Antofalla project in Catamarca Province. Drilling at Kachi has confirmed a large lithium brine bearing basin over 20km long, 15km wide and 400m to 800m deep. Drilling over Kachi (currently 16 drill holes, 3100m) has produced a maiden indicated and inferred resource of 4.4 Mt LCE (Indicated 1.0Mt and Inferred 3.4Mt) within a 8-17 Mt LCE exploration target (refer ASX announcement 27 November 2018).

A direct extraction technique is being tested in partnership with Lilac Solutions, which has shown 80-90% recoveries and lithium brine concentrations in excess of 3000 mg/L lithium and is planned to be trialled on site in tandem with conventional methods as part of a PFS to follow the resource statement. Scope exists to

unlock considerable value through partnerships and corporate deals in the near term.

Source:

[Lake Resources NL](#)

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