

# Noram Ventures Inc. Achieves Initial Success With Chloride-Based Leaching for Lithium Clay Extraction

14.01.2021 | [ACCESS Newswire](#)

VANCOUVER, Jan 14, 2021 - [Noram Ventures Inc.](#) ("Noram" or the "Company") (TSXV:NRM) (FSE:N7R) (OTCQB:NRVTF) is pleased to announce that in anticipation of Preliminary Economic Assessment studies for the Zeus lithium claystone deposit in Clayton Valley, Nevada, Noram is conducting a series of chemical engineering tests to extract and concentrate lithium. In July and August 2020, Noram conducted successful membrane + electrolysis where 97% pure lithium carbonate was achieved after leaching in sulfate-based solutions. Since then, Noram has initiated chloride-based leaching experiments. These experiments are guided by evidence regarding the cation exchange capacity of some clay minerals, where lithium is liberated relatively easily in chloride solutions if HCl is used to overcome kinetic effects. Noram is contracting Activation Laboratories, Inc., of Ancaster, Ontario for this series of tests. The Actlabs Group of Companies is well-known globally as a research-oriented companies with experienced scientists to help solve analytical challenges.

Noram and Actlabs have already achieved initial success. Initial results using low concentrations of HCl and simple chloride compounds (including NaCl), moderate temperatures, and leaching times of only one hour, have yielded up to 425 ppm lithium in solution. President and CEO C. Tucker Barrie notes that: "These initial tests are producing significant amounts of lithium in solution from our claystone material, with concentrations 2.5 times greater than the current brine pumped from aquifers for Albemarle's Silver Peak operations next door /1/. We are very encouraged by these results. We plan a series of leaching tests with variable reagent concentrations, temperatures and duration of leaching to optimize the lithium into solution in Q1 2021, ahead of our PEA to provide guidance for more comprehensive chemical engineering studies.

There are two significant advantages to using chloride chemistry in comparison to sulfate-based chemistry. 1) During processing, sulfate minerals may precipitate governed by their unusual, temperature-dependent solubilities, and this can hinder lithium extraction, whereas chloride compounds are easier to manage. 2) The cost of using HCl in comparison to using H<sub>2</sub>SO<sub>4</sub> is favorable, particularly when considering the Capex of the overall project. Other lithium claystone projects envision sulfuric acid plants on site which constitute a very large portion of the Capex, according to recent PFS and FS studies."

In addition to the chloride-based leaching studies, Noram is examining other monovalent cations that could be extracted during processing, particularly cesium and rubidium. Although the markets for these metals are restricted, they are quite valuable, and cesium is on the United States' list of critical minerals /2/. Noram management notes that most of the >900 ppm lithium cutoff lithium claystone material in the February 2020 resource estimate, and in the drill core for the current drill campaign, is > 50 ppm Cs and >250 ppm Rb. These metals should go into solution during processing, and these metals may constitute significant bi-products. The US Geological Survey reports 2019 prices for 50 grams cesium chloride (99.9% pure) and 10 grams rubidium chloride (99.9% pure) as \$US 103.60 and \$US 59.80, respectively /3,4/.

1. [https://www.pureenergyminerals.com/wp-content/uploads/2018/04/PureEnergy\\_ClaytonValleyPEA\\_Rev1\\_23Mar2018.pdf](https://www.pureenergyminerals.com/wp-content/uploads/2018/04/PureEnergy_ClaytonValleyPEA_Rev1_23Mar2018.pdf)
2. <https://www.federalregister.gov/documents/2018/05/18/2018-10667/final-list-of-critical-minerals-2018>
3. <https://pubs.usgs.gov/periodicals/mcs2020/mcs2020-cesium.pdf>
4. Silver Peak average lithium concentration in brines 2009-2013 - 157 ppm Li n=6: /4/  
<https://pubs.usgs.gov/periodicals/mcs2020/mcs2020-rubidium.pdf>

## About Noram Ventures Inc.

[Noram Ventures Inc.](#) (TSXV:NRM)(FSE:N7R)(OTCQB:NRVTF) is a Canadian based junior exploration company, with a goal of developing lithium deposits and becoming a low - cost supplier. The Company's primary business is the Zeus Lithium Project ("Zeus") in Clayton Valley, Nevada. The Zeus Project has a current resource estimate of 124 million tonnes at 1136 ppm lithium as Indicated Resources, and 77 million tonnes lithium at 1045 ppm lithium as Inferred Resources (900 ppm Li cut-off: 1.18 million tonnes lithium carbonate equivalent - "LCE".

Noram's long term strategy is to build a multi-national lithium minerals company to produce and sell lithium into the markets of Europe, North America and Asia.

Please visit our web site for further information: [www.noramventures.com](http://www.noramventures.com)

**ON BEHALF OF THE BOARD OF DIRECTORS**

/s/ "C. Tucker Barrie, Ph.D., P. Geo."

President and CEO

Office: (604) 553-2279

Neither the TSX Venture Exchange nor its Regulation Services Provider (as that term is defined in the policies of the TSX Venture Exchange) accepts responsibility for the adequacy or accuracy of this release. This news release may contain forward-looking information which is not comprised of historical facts.

Forward-looking information involves risks, uncertainties and other factors that could cause actual events, results, performance, prospects and opportunities to differ materially from those expressed or implied by such forward-looking information. Forward-looking information in this news release includes statements regarding, among other things, the completion transactions completed in the Agreement. Factors that could cause actual results to differ materially from such forward-looking information include, but are not limited to, regulatory approval processes. Although Noram believes that the assumptions used in preparing the forward-looking information in this news release are reasonable, including that all necessary regulatory approvals will be obtained in a timely manner, undue reliance should not be placed on such information, which only applies as of the date of this news release, and no assurance can be given that such events will occur in the disclosed time frames or at all. Noram disclaims any intention or obligation to update or revise any forward-looking information, whether as a result of new information, future events or otherwise, other than as required by applicable securities laws.

**SOURCE:** [Noram Ventures Inc.](http://www.noramventures.com)

---

Dieser Artikel stammt von [Rohstoff-Welt.de](http://Rohstoff-Welt.de)

Die URL für diesen Artikel lautet:

<https://www.rohstoff-welt.de/news/371775--Noram-Ventures-Inc.-Achieves-Initial-Success-With-Chloride-Based-Leaching-for-Lithium-Clay-Extraction.html>

Für den Inhalt des Beitrages ist allein der Autor verantwortlich bzw. die aufgeführte Quelle. Bild- oder Filmrechte liegen beim Autor/Quelle bzw. bei der vom ihm benannten Quelle. Bei Übersetzungen können Fehler nicht ausgeschlossen werden. Der vertretene Standpunkt eines Autors spiegelt generell nicht die Meinung des Webseiten-Betreibers wieder. Mittels der Veröffentlichung will dieser lediglich ein pluralistisches Meinungsbild darstellen. Direkte oder indirekte Aussagen in einem Beitrag stellen keinerlei Aufforderung zum Kauf-/Verkauf von Wertpapieren dar. Wir wehren uns gegen jede Form von Hass, Diskriminierung und Verletzung der Menschenwürde. Beachten Sie bitte auch unsere [AGB/Disclaimer](#)!

---

Die Reproduktion, Modifikation oder Verwendung der Inhalte ganz oder teilweise ohne schriftliche Genehmigung ist untersagt!  
Alle Angaben ohne Gewähr! Copyright © by Rohstoff-Welt.de -1999-2026. Es gelten unsere [AGB](#) und [Datenschutzrichtlinen](#).