

June 3, 2019



Standard Lithium Provides Progress Update on its Industrial-Scale Lithium Extraction Demonstration Plant

VANCOUVER, British Columbia, June 03, 2019 (GLOBE NEWSWIRE) -- **Standard Lithium Ltd.** ("Standard Lithium" or the "Company") (TSXV: SLL) (OTCQX: STLHF) (FRA: S5L), is pleased to provide an update regarding the ongoing fabrication of the Company's lithium extraction Demonstration Plant. The plant, being constructed by Zeton Inc. ([see press release dated March 26th 2018](#)) is nearing completion, and Phases 1 and 2 are 92% complete. The current schedule shows that fabrication and all associated piping, electrical and control systems of Phases 1 and 2 will be completed by early Q3/19. Upon completion, the Phase 1 and 2 modules will be disassembled and trucked to the in-field location at Lanxess' South Plant facility in southern Arkansas.

The Demonstration Plant is a large (20 m x 20 m x 11 m tall) industrial scale modular facility (see photograph below taken on May 29th 2019) that is designed to process tailbrine from the Lanxess South Plant post bromine extraction. The Demonstration Plant is based on Standard Lithium's proprietary technology, that uses a solid sorbent material to selectively extract lithium from Lanxess' tailbrine. The design of the Demonstration Plant has been refined based on Standard's two years of successful bench and mini-pilot-scale work completed at several facilities across North America; this work has been completed on both a batch and continuous flow basis. The Demonstration Plant will consist of 18 separate modules, split into three phases, and the final modules will be transported to the Lanxess South Plant in late Q3/19.



Phase 1 & 2 Modules – photograph taken May 29th, 2019

A photo accompanying this announcement is available at:
<https://www.globenewswire.com/NewsRoom/AttachmentNg/864db8db-8a9a-4417-a533-fdddb22bb43>

The Demonstration Plant is designed to continuously process an input tailbrine flow of 50 gallons per minute (gpm; or 11.4 m³/hr) from the Lanxess South Plant, which is equivalent to an annual production of between 100-150 tonnes per annum Lithium Carbonate Equivalent (LCE).

Dr. Andy Robinson, Standard Lithium President and COO, commented, *"The Standard Lithium team is very pleased with both the speed of execution and the exceptional quality and attention to detail that Zeton are bringing to our Demonstration Plant. We are very confident that we will be delivering a high-quality plant to the project site in southern Arkansas, and we look forward to integrating it into Lanxess' brine operations. We are progressing works very quickly on the ground, and we hope to announce real progress in project implementation in southern Arkansas in the near-future."*

About Standard Lithium Ltd.

Standard Lithium (TSXV: SLL) is a specialty chemical company focused on unlocking the value of existing large-scale US-based lithium-brine resources. The Company believes new lithium production can be brought on stream rapidly by minimizing project risks at selection stage (resource, political, geographic, regulatory and permitting), and by leveraging advances in lithium extraction technologies and processes. The Company's flagship project is located in southern Arkansas, where it is engaged in the testing and proving of the commercial viability of lithium extraction from over 150,000 acres of permitted brine operations utilizing the Company's proprietary selective extraction technology. The Company is also pursuing the resource development of over 30,000 acres of separate brine leases located in southwestern Arkansas and approximately 45,000 acres of mineral leases located in the Mojave Desert in San Bernardino County, California.

Standard Lithium is listed on the TSX Venture Exchange under the trading symbol "SLL"; quoted on the OTC - Nasdaq Intl Designation under the symbol "STLHF"; and on the Frankfurt Stock Exchange under the symbol "S5L". Please visit the Company's website at www.standardlithium.com.

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On behalf of the Board,

Standard Lithium Ltd.

Robert Mintak, CEO & Director

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Source: Standard Lithium