

September 3, 2019



Standard Lithium Announces Successful Delivery and Begins Installation of Phases 1 & 2 of Its Direct Lithium Extraction Demonstration Plant to the Arkansas Project Site

First-of-a-kind industrial-scale direct lithium extraction demonstration plant, being installed in Southern Arkansas

EL DORADO, Ark., Sept. 03, 2019 (GLOBE NEWSWIRE) -- **Standard Lithium Ltd.** ("Standard Lithium" or the "Company") (TSXV: SLL) (OTCQX: STLHF) (FRA: S5L), is pleased to announce that the mobilisation of Phases 1 & 2 of the Company's direct lithium extraction Demonstration Plant has been successfully completed, and that the modules have been secured and are in the process of being installed at the project location at Lanxess' South Plant facility in southern Arkansas (the "Site"). Standard Lithium's Project Team is currently connecting the modules together, installing the site office and control room and beginning to make utility connections.



Phase 1 & 2 Modules Being Unloaded and Moved into Position – photo taken Aug 23rd, 2019



Project Site Location Showing Installed Phase 1 & 2 Modules – Image taken Aug 28th, 2019

Work at the project location at Lanxess' South Plant facility in southern Arkansas continues to be on-schedule, and installation and utility connection works will continue throughout September, until the final shipment of modules, scheduled for late September/early October. Initial installation of the modules by mobile crane is shown in Figure 1 below, and the current build-out of the Demonstration Plant is shown in Figure 2.

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 & 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. The Company is currently installing a first-of-its-kind Demonstration Plant that will use the Company's proprietary technology to selectively extract lithium from LANXESS' tailbrine.

This Demonstration Plant will be used to prove commercial feasibility. The environmentally friendly process eliminates the use of evaporation ponds, reduces processing time from months to hours and greatly increases the effective recovery of lithium.

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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Photos accompanying this announcement are available at

<https://www.globenewswire.com/NewsRoom/AttachmentNg/8eabae28-1538-4e1e-837d-6b70b9711c60>

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