

October 15, 2019



# Standard Lithium Completes Installation of Final Modules of Its “LiSTR” Direct Lithium Extraction Demonstration Plant at the Arkansas Project Site

- Targeted to Produce 100-150 Tonnes per Annum of Battery Quality Lithium Carbonate
- First-of-a-kind direct lithium extraction demonstration plant, being deployed in Southern Arkansas

VANCOUVER, British Columbia, Oct. 15, 2019 (GLOBE NEWSWIRE) --**Standard Lithium Ltd.** (“Standard Lithium” or the “Company”) (TSXV: SLL) (OTCQX: STLHF) (FRA: S5L), is pleased to announce that the final modules of the Company’s “LiSTR” direct lithium extraction Demonstration Plant have been transported to and are currently being installed at Lanxess’ South Plant facility in southern Arkansas (the “Site”).



Demonstration Plant Project site, showing Phases 1,2 and most Phase 3 Modules installed – photo taken 11th Oct 2019



Demonstration Plant Project site, showing Phases 1,2 and most Phase 3 Modules installed – photo taken 14th Oct 2019

Fabrication and initial QA/QC testing of the final Phase 3 Modules of the Demonstration Plant was completed in early October, and the modules (8 modules in this final Phase 3, plus spare parts) were separated and shipped to the Site. The Phase 3 modules have now arrived at the Site and are in the process of being installed and connected. Current photos of the Demonstration Plant Site, showing the installed modules in Figures 1 and 2 below.

Once all the modules are installed, the project engineers and contractors will continue connecting and testing all the modules and installing the tie-ins to utilities and services. The commissioning process is scheduled to begin in November.

Two photos accompanying this announcement are available at:

<https://www.globenewswire.com/NewsRoom/AttachmentNg/5e0dd3d4-421c-473a-9aff-51af3b8e7ab4>

<https://www.globenewswire.com/NewsRoom/AttachmentNg/ea42156e-8644-48b0-a6c5-54af86935d85>

The Demonstration Plant is designed to continuously process an input tailbrine flow of 50 gallons per minute (gpm; or 11.4 m<sup>3</sup>/hr) from the Lanxess South Plant, which is equivalent to an annual production of between 100-150 tonnes per annum Lithium Carbonate Equivalent (LCE). The Demonstration Plant is based on Standard Lithium's proprietary LiSTR technology, that uses a solid sorbent material to selectively extract lithium from Lanxess' tailbrine.

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.

Dr Andy Robinson, Standard Lithium President and COO, commented *"our roll-out of the LiSTR direct lithium extraction Demonstration Plant continues to be executed on-schedule, and Standard Lithium would like to thank our project partners for all their efforts in keeping this Project constantly moving forward. We now have a full project team in place, and plant operators are currently undergoing process-specific training. We look forward to beginning the commissioning phase in November and starting the next exciting step of this Project."*

#### **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](http://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