

# Standard Lithium Breaks Ground for Its Direct Lithium Extraction Demonstration Plant

- Expected to Produce 100-150 Tonnes per Annum of Lithium Carbonate
- Lithium Included on List of Minerals Critical to U.S. National Security and the Economy
- Environmentally Friendly Faster Processing Time Higher Recovery than Traditional Extraction

EL DORADO, Ark., June 26, 2019 (GLOBE NEWSWIRE) -- **Standard Lithium Ltd.** ("Standard Lithium" or the "Company") (TSXV: SLL) (OTCQX: STLHF) (FRA: S5L), today announced that it has broken ground in El Dorado Arkansas for its first-of-a-kind direct lithium extraction demonstration plant that selectively extracts lithium from the tail brine that is a by-product of the existing bromine production operations run by LANXESS.

The Demonstration Plant will employ the Company's proprietary technology that uses a solid sorbent material to selectively extract lithium from LANXESS South Plant's tailbrine. Designed to continuously process an input tailbrine flow of 50 gallons per minute ( $11.4 \text{ m}^3/\text{hr}$ ), the plant is expected to achieve equivalent to an annual production of between 100 and 150 tonnes per annum Lithium Carbonate. 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.



Standard Lithium; construction begins at El Dorado, AR lithium extraction demo plant

Dr Andy Robinson, Standard Lithium President and COO, commented "*Standard Lithium is continuing to execute its disciplined development strategy. We are separating ourselves from our peers by partnering with a global chemical company with real operational experience, deploying demonstration-scale proof-of-concept technology at an operating brine-processing plant, and removing financing and off-take risks through our joint venture strategy. Ground-breaking at the site is a key step in realising our rapid development timelines, and we look forward to providing more updates as this phase of the project moves towards commissioning.*"

The site, located at one of the operational brine processing plants (picture below), is currently being levelled and graded in preparation for construction of the foundations and concrete slabs needed to house the industrial-scale demonstration plant ([see press release](#)

dated 2<sup>nd</sup> June 2019).

A photo accompanying this announcement is available at <https://www.globenewswire.com/NewsRoom/AttachmentNg/3a1260c0-be39-4e3d-9820-88b78568b702>

The work is being managed on-site by Hunt Guillot & Associates LLC (HGA) of Ruston, Louisiana, which has completed all the civil engineering and site utility connection works to date. HGA has been contracted to supervise and control all work related to the installation and connection of the modular Demonstration Plant at the operational brine facility, and El Dorado-based contractor Milam Construction will complete the majority of the work.

Standard Lithium's recently hired Plant Manager, Mr. Bruce Seitz, will also be present on-site during all enabling and installation works. The current schedule allows for pre-installation works to be completed prior to all the modules being mobilised to the site by the end of Q3, 2019.

Standard Lithium CEO Robert Mintak stated, "*No new lithium mine has been built in the United States in over five decades; breaking ground at our El Dorado site represents a major achievement towards changing that. We anticipate our project and progress will be keenly watched as lithium has taken on significant political interest with the White House 2017 executive order and subsequent pending legislation aimed to boost domestic supplies of critical minerals.*"

The Company recently announced the results of a Preliminary Economic Assessment (PEA) ([see press release dated June 19<sup>th</sup>, 2019](#)). The PEA considers the production of battery-quality lithium carbonate through a phased build-out with production ramped up over 5 years to a total 20,900 tonnes per annum (tpa) with a total CAPEX estimate including 25% contingency on both direct and indirect capital costs of US \$437 Million.

### **About Standard Lithium Ltd.**

Standard Lithium (TSX: 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 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](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