

# LITHIUM DRILLING APPROVAL AT PRAIRIE

## HIGHLIGHTS

- AZL has successfully received approval for its first well at Pad #1 of the Prairie Lithium Project.
- Construction of the well pad is complete, with the well on track to be drilled in the first half of 2024.
- Pilot plant testing of Prairie brine is currently underway with a very selective and efficient third party DLE technology.
- AZL has previously produced high purity Lithium using the third party DLE technology that will be used for commercial production.
- Pilot plant testing of Prairie brine material will complete the third and final phase of the evaluation of the DLE technology.

Arizona Lithium Limited (ASX: AZL, AZLOA, AZLO OTC: AZLAF) (“Arizona Lithium”, “AZL” or “the Company”), a company focused on the sustainable development of two large lithium development projects in North America, the Big Sandy Lithium Project (“Big Sandy”) and the Prairie Lithium Project (“Prairie”), is pleased to announce that it has successfully received well licence approval for the first well at Pad #1 for the Prairie Lithium Project, located in Saskatchewan, Canada.



Figure 1: 2022 Drilling on Prairie Lithium project

**Arizona Lithium Managing Director, Paul Lloyd, commented:** “Receiving approval on our first well is an extremely positive step forward for the Prairie Project. With the well pad built, and the well licence approval in place it allows us to move into the planning and execution phase for drilling the initial wells, advancing AZL another step closer to production in the first half of 2025. These wells are the cornerstone for our first commercial DLE facility.”

### About the Prairie Lithium Project

AZL’s Prairie Lithium Project is located in the Williston Basin of Saskatchewan, Canada. The Prairie Project resource is 5.7 MT of LCE, composed of 4.0 MT LCE Indicated and 1.7 MT LCE Inferred<sup>1</sup>. Located in one of the world’s top mining friendly jurisdictions, the projects have easy access to key infrastructure including electricity, natural gas, fresh water, paved highways and railroads. The projects also aim to have strong environmental credentials which should result in less use of freshwater, land and waste, aligning with AZL’s sustainable approach to lithium development.

Arizona Lithium also holds a proprietary lithium extraction process technology that selectively removes lithium from Brine. The Prairie Lithium Ion Exchange (“**PLIX**”) is an ion-exchange material that selectively extracts lithium from brine, using equipment which is anticipated to be readily available at commercial scale. PLIX may have a global application, with the process currently being tested on lithium resources from around the world (including encouraging results with Big Sandy). While Prairie Lithium continues to develop, scale and operate its own DLE technology, the company is also testing other DLE technologies to ensure it deploys the most cost-effective technology onto its resource.

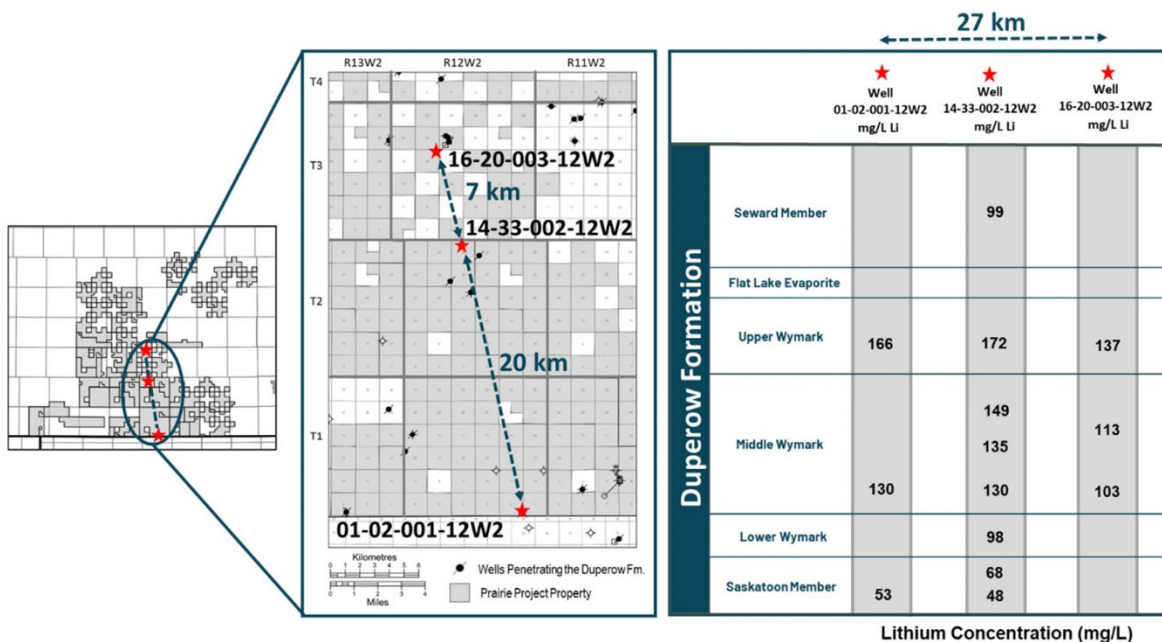


Figure 2: Location map and representative lithium concentrations from Arizona Lithium's test wells<sup>2</sup>

<sup>1</sup> PRAIRIE PROJECT RESORUCE UPGRADED 39% - ASX Announcement (August 17, 2023)

<sup>2</sup> Lithium Concentrations measured by Isobrine Solutions and confirmed by one other commercial laboratory in Edmonton, Alberta

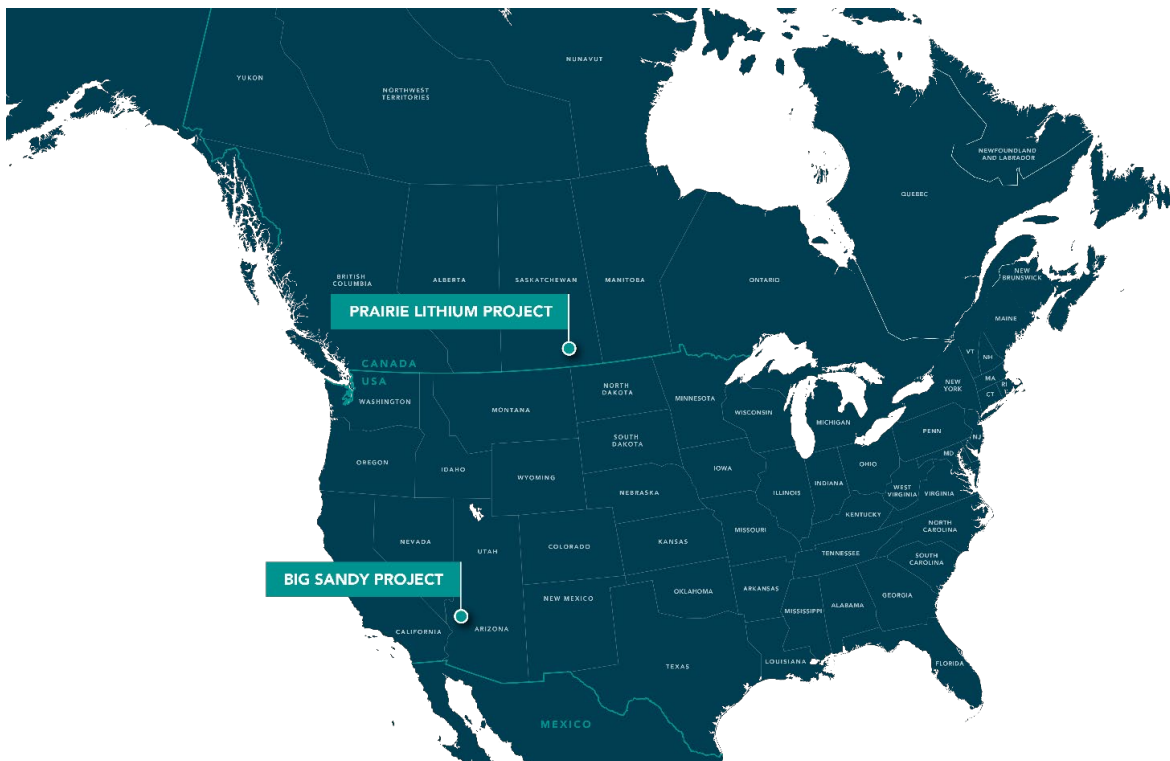


Figure 3: Location of Arizona Lithium's projects

This ASX announcement is authorised for release by the Board.

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