

ASX Announcement

14 June 2022

AZL COMPLETES HAZEN RESEARCH BENCH-SCALE TEST PROGRAM

Key Points:

The Hazen work validated the initial Big Sandy design basis and flowsheet, including:

- Size-based concentration of 71% of the resource lithium content into a concentrate of 36% of the processed ore
- A lithium leaching extraction from the concentrate of 88%
- A reduction of processed ore sulfuric acid consumption in leaching at 490 kg/mt to less than 180 kg/mt
- Production of at least 99.8% battery-grade lithium carbonate
- Determination of critical reagent consumables
- Production of bulk quantities of purified lithium sulfate solution for additional test work by recognized battery-grade lithium carbonate process technology vendors
- The basis for Ausenco's mass and energy balance leading to its AACE Class 5 capital and O&M cost, and Class 1 schedule estimates for commercial project alternatives

Hazen's work is providing the basis for AZL's Big Sandy Project scoping study currently being executed by Ausenco Engineering USA South, Inc. (Ausenco) based in Tucson, Arizona, which is expected to be completed in July 2022.

AZL will continue to refine the design of the Big Sandy Project at the Company's new Lithium Research Center located in Phoenix, Arizona.

Arizona Lithium Limited (**ASX:AZL**) ("**Arizona Lithium**", "**AZL**", or the "**Company**"), a Company focused on the sustainable development of the Big Sandy Lithium Project in Arizona ("**Big Sandy**", "**Project**") is pleased to announce that Hazen Research, Inc ("**Hazen**") has issued its final ore beneficiation, concentrate leaching, and hydrometallurgy reports on the Company's Big Sandy resource.

Arizona Lithium has now successfully concluded its bench-scale metallurgical testing program that commenced at Hazen in November 2020 (*ASX releases 11 November 2020 – Hazen Research Evaluates Production of Battery Grade Lithium and 24 November 2021 – Outstanding Metallurgical Testwork Results Big Sandy Project*). Hazen's work provided the basis for AZL's Project scoping study currently being executed by Ausenco Engineering USA South, Inc. ("**Ausenco**") based in Tucson, Arizona, which is expected to be completed in July 2022.

AZL will continue to develop and refine the design for Big Sandy at the Company's new Lithium Research Center located in Phoenix, Arizona. This unique, world-class facility will be focused on the development and demonstration of new lithium extraction and processing technology in addition to providing a full array of laboratory services. The Lithium Research Center is currently in the engineering/procurement phase with construction anticipated to begin in Q3 2022 and an update expected imminently.

Arizona Lithium Managing Director, Paul Lloyd, commented: "We are very pleased to have completed the Hazen Research bench-scale testwork, which has validated the initial Big Sandy design basis and flow sheet, representing an instrumental step as we continue to advance towards lithium

production at Big Sandy. Importantly, the testwork has confirmed production of at least 99.8% battery-grade lithium, as we seek to supply the rapidly growing EV market in North America, which continues to be driven by the shift towards decarbonised transport.

“Over the coming periods, we will continue to refine the design of the Big Sandy Project at our new Lithium Research Center located in Phoenix, Arizona. This Center will play an important role as we continue to fast track the development of the Big Sandy Lithium Project.”

This announcement has been authorised for release by the Board of Arizona Lithium Limited.

FOR FURTHER INFORMATION PLEASE CONTACT:

MR. PAUL LLOYD

Managing Director
Arizona Lithium Limited
Tel. +61 419 945 395
paul@arizonalithium.com

Second Floor, 10 Outram Street
West Perth WA 6005