



ASX RELEASE

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## LPI Commences Lithium Exploration Program Adjacent to Greenbushes Lithium Mine

Lithium Power International Limited (ASX: LPI) (LPI or the Company) is pleased to update progress on exploration activities in Western Australia, focused on the company's Greenbushes project in the south-west of the State. The project is wholly-owned by LPI and is adjacent to the world's highest grade spodumene lithium mine, which is owned and operated by major producers Albemarle and Tianqi.

### HIGHLIGHTS

- Exploration has commenced to define drill targets within the previously identified arsenic lithium anomalies.
- One important area, Balingup East, is a northern extension of the arsenic anomaly associated with the Giant LCT Pegmatite which is mined by Talison at their Greenbushes operation. Balingup East has strongly elevated arsenic in laterite > 500ppm along with elevated As, Sn, Cs, Bi, Nb, Rb and Sb.
- Regional laterite and rock chip sampling is also commencing in areas that previously were not tested by LPI.
- LPI's Greenbushes tenements cover 39,800 ha north and south of the Greenbushes mine.

### Project Background

The northern Greenbushes tenement, Balingup, covers 315 km<sup>2</sup> directly adjacent to the Greenbushes mine block owned by Talison (Albemarle and Tianqi). The tenement has an approved program of works (2020) and an environmental management plan for activities in State Forest areas.

The Greenbushes mine is the centre of a 20km by 12km zone of elevated laterite geochemistry around pegmatites in the mine trend and identified in published studies.

Elements with elevated values in laterite around the Greenbushes mine include arsenic, tin, tantalum, antimony, lithium, boron and beryllium. Studies of the distribution of arsenic in laterite suggest this is a particularly significant indicator element.

### **Laterite Sampling**

Follow up laterite sampling at the Balingup Tenement, E70/4763, has commenced.

Previous laterite sampling by LPI identified zones with significantly elevated geochemistry (Figure 1). This includes the Balingup East target, with strongly elevated arsenic in laterite (to >500 ppm) and elevated Sn, Cs, Bi, Nb, Rb and Sb along the Donnybrook-Bridgetown (DB) Shear Zone. This strong arsenic geochemistry identified by LPI defines a northern extension of the strong arsenic geochemistry identified by historical laterite geochemistry on the Greenbushes mine site (*Smith, et. al., 1987, Journal of Geochemical Exploration, 29, p251-265*). LPI has also mapped pegmatites outcropping in this area.



**Figure 1 – Laterite sampling underway on LPI's Greenbushes tenement**

The East Kirup Prospect is also associated with a north-west trending arsenic anomaly within laterite and soil. The prospect was originally defined by close spaced MMI sampling (50m apart on 100m lines) over the DB Shear Zone. Mapping has shown that rocks similar to those that host the main Greenbushes Pegmatite outcrop within the East Kirup Prospect. Limited historical drilling by Red River Resources on this tenement also defined the presence of these host rocks in the zone of lithium enrichment. To the east of the East Kirup Prospect is the Thomas A Prospect. This area contains historically mapped pegmatites which, on surface, are rich in kaolinite. The laterite sampling has shown that that the area has anomalous arsenic. Thirty four laterite samples will be taken in the areas covered in the Smith 1987 work to check the As values and to complete evaluation of the anomaly (sample sites shown in Figure 4).



**Figure 2 – Laterite sampling in LPI's Greenbushes tenement**

### **Infill Sampling**

Detailed laterite sampling and additional mapping is underway at the East Kirup Prospect and Thomas A Prospect in addition to the East Balingup Zone. This will better define the areas of elevated arsenic and lithium multi-element geochemistry, in order to define the complex zones of alteration associated with LCT pegmatites and allow definition of drill targets. The infill sampling will consist of 270 samples at 100m spacings

### ***Regional Sampling***

Concurrent with the infill sampling, a broad regional program of laterite sampling is being conducted. This will fully evaluate parts of the northern tenement where no work was done in the 2019-2020 works program. The regional sampling will consist of 70 samples.

Field sampling work is expected to be completed by the end of Q1 2021, with results assessed to enable further POW's to be submitted for approval.

### **Lithium Power International's Chief Executive Officer, Cristobal Garcia-Huidobro, commented:**

"Work is progressing well on the field activity to assess the potential of the Balingup Zone. Our geologists have mapped pegmatites hosted within mafic rocks within the defined arsenic anomaly. The current work should better define the zones of alteration so as to target these lithium enriched parts of the pegmatite."

### **For further information, please contact:**

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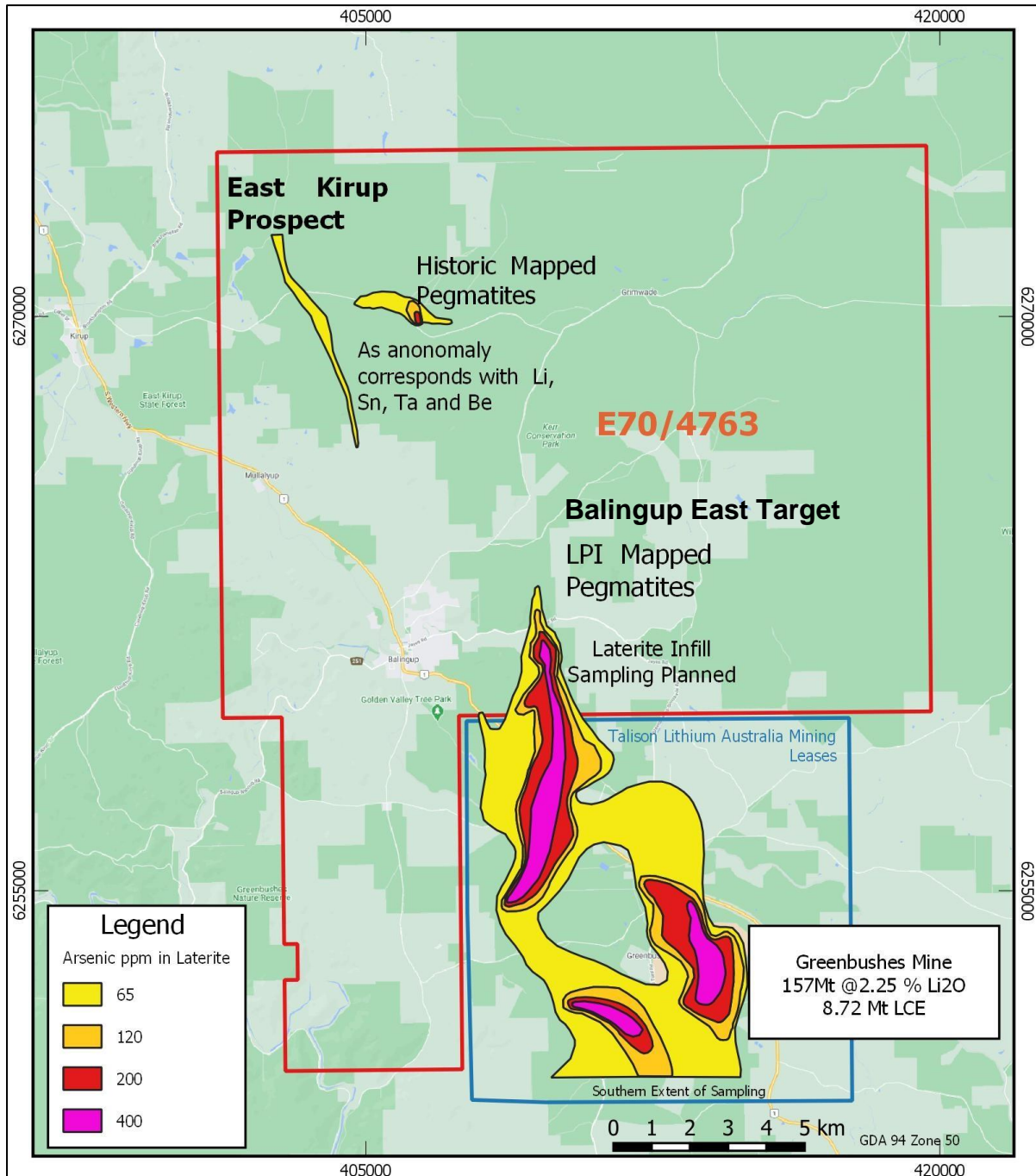


Figure 3 - Greenbushes project Balingup tenement, showing elevated arsenic detected from LPI sampling combined with public information from the Greenbushes mine tenement – values > the coloured threshold numbers (Smith et. al., 1987)



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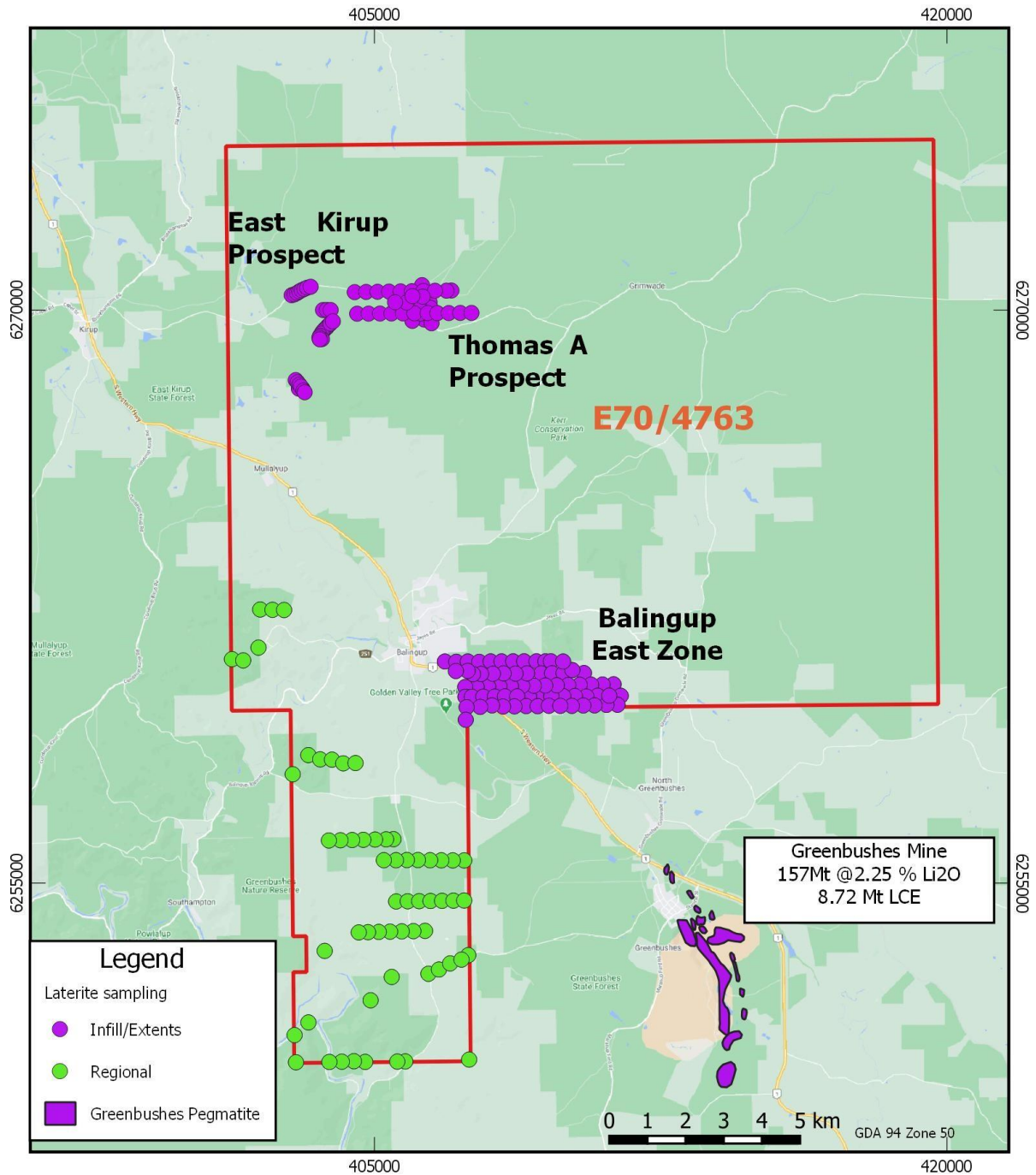


Figure 4 - Greenbushes project Balingup tenement, planned regional laterite sampling; infilling the previously defined zones and assessing new areas to the west.

### **Competent Person's Statement – GREENBUSHES PROJECT**

The information contained in this ASX release relating to Exploration Targets, Exploration Results and resources has been compiled by Mr Murray Brooker. Mr Brooker is a Geologist and Hydrogeologist and is a Member of the Australian Institute of Geoscientists (AIG) and the International Association of Hydrogeologists (IAH). Mr Brooker has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a competent person as defined in the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. He is also a "Qualified Person" as defined by Canadian Securities Administrators' National Instrument 43-101.

Mr Brooker is an employee of Hydrominex Geoscience Pty Ltd and an independent consultant to Lithium Power International. Mr Brooker consents to the inclusion in this announcement of this information in the form and context in which it appears. The information in this announcement is an accurate representation of the available data from the Greenbushes project.

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