



ADDRESS
Level 8, 99 St Georges Terrace
Perth WA 6000
PHONE
+61 (08) 9486 4036

ABN
96 095 684 389

WEBSITE
www.lanthanein.com

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MURRAYDIUM IONIC CLAY HOSTED REE PROJECT DEM DRILLING APPROVALS RECEIVED

- **South Australia's Department for Energy and Mining have granted an Exploration Program for Environment Protection and Rehabilitation (EPEPR) approval for EL 6717**
- **Approval for 307 Air Core drill holes to be drilled on roadside verges in the exploration area to investigate the project area for the presence of laterally extensive shallow clay hosted rare earth elements (REE) mineralisation**
- **Numerous deposits and prospects in the region including Australian Rare Earths (ASX:AR3) Koppamurra Project with an Inferred Mineral Resource of 39.9 Mt @ 725 ppm TREO¹**
- **Project geology consists of extensive series of stranded shorelines formed during marine regression in Miocene to early Pliocene, the primary host to regional REE mineralisation**
- **Project complements Lanthanein's Gascoyne REE Project where REE's are hosted in ironstones associated with ferrocyanatites**

Lanthanein Resources Limited (**Lanthanein** or the **Company**) is pleased to announce the grant of approval of an EPEPR, Exploration Program for Environment Protection and Rehabilitation from the SA Department for Energy and Mining which will allow for an initial drilling program at the ionic clay hosted rare earths project in South Australia.

The Murraydium Project is located in the south-eastern region of Naracoorte in South Australia's Murray Basin, consisting of Exploration Licence EL 6717 covering an area of 873 km² (Fig 1), owned 100% by Lanthanein's subsidiary Southern Rare Earths Pty Ltd (SRE).

The project area forms part of an extensive Tertiary strand plain comprising a series of sandstone-dominant fluvial and beach-dune strand complexes. The sand units commonly form undulating sand ridges interspersed with low lying areas of clay, mud and sand.

The ASX listed Australian Rare Earths Limited (AR3) REE-bearing clays Koppamurra Project occur within the lower part of the Loxton-Parilla Sand unit which covers an extensive area of the SW Murray Basin in eastern South Australia. It is this unit that is Lanthanein's main exploration target.

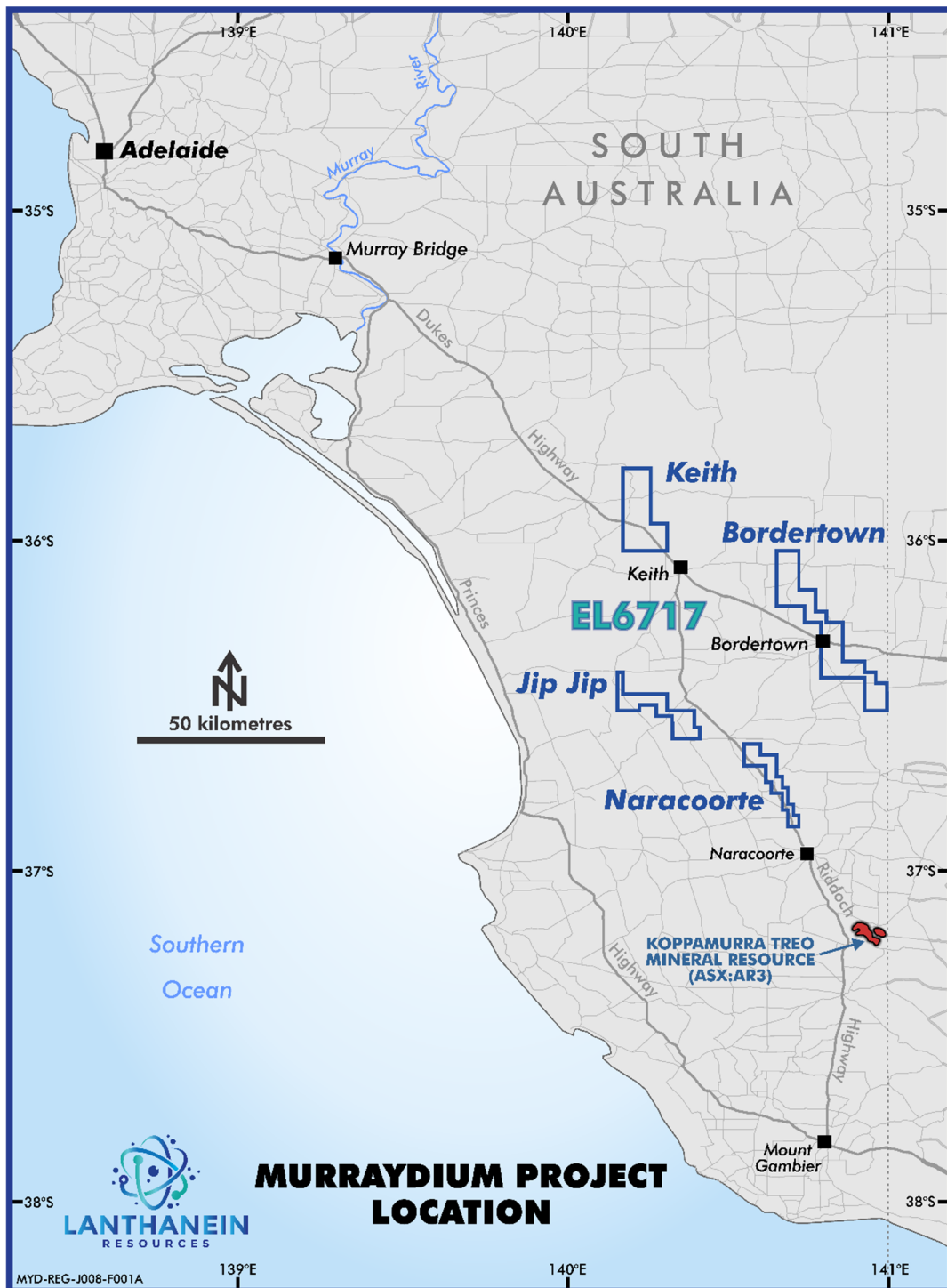


Figure 1: Location Plan of Murraydium Ionic Clay Hosted REE Exploration Project

Under the EPEPR process, South Australian exploration licence holders have statutory requirements including the identification of relevant environmental, social and economic impacts and obtain relevant approvals prior to undertaking exploration activities.

A total of 307 air core drill holes have been approved to be drilled along existing roadside verges to test for rare earth elements within the four tenement blocks Naracoorte, Bordertown, Jip Jip and Keith (Figure 2).

A suitable drill contractor from South Australia has been sourced with Aircore drilling capability mounted on turbo diesel Toyota 6x6 Landcruiser.

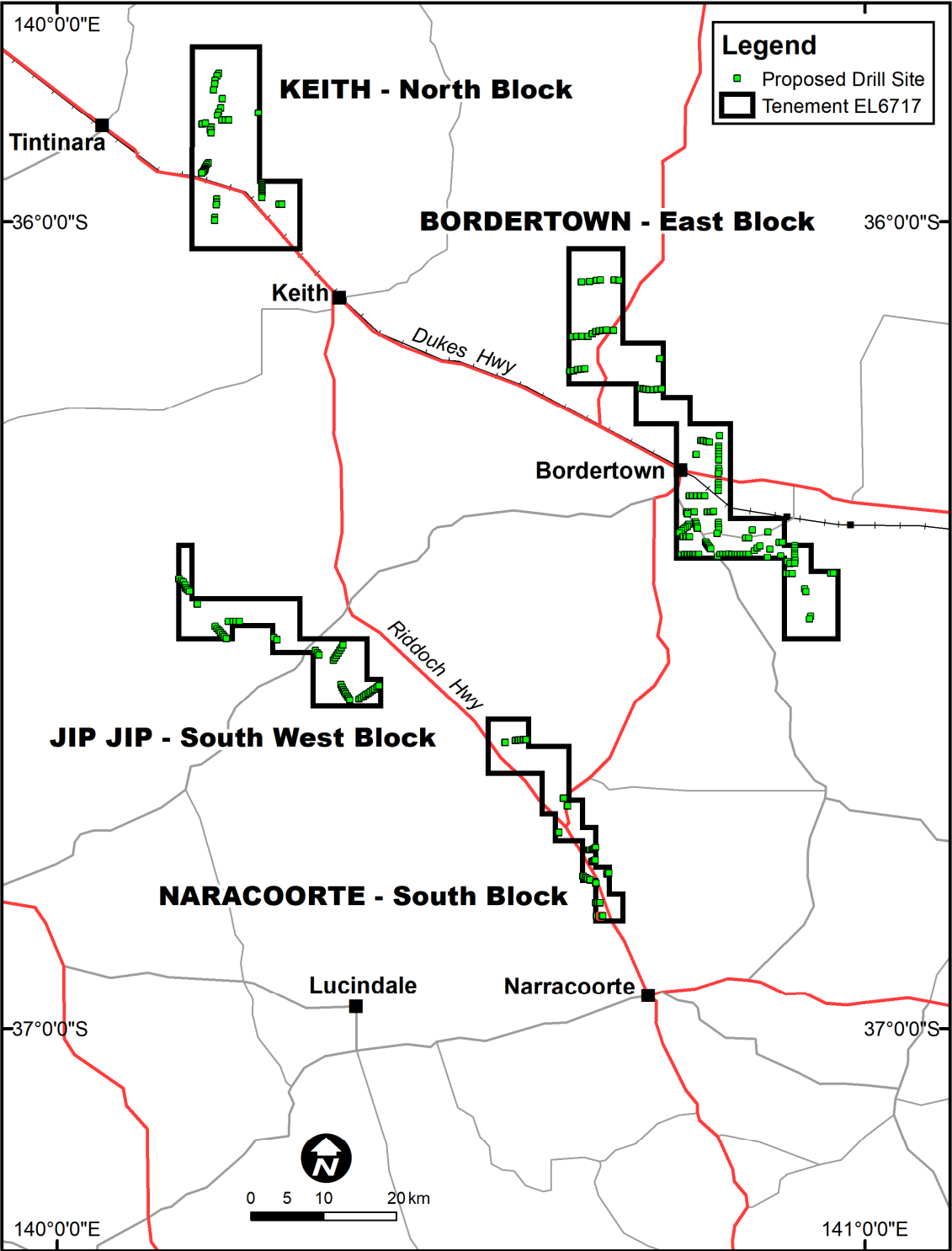


Figure 2: Drill hole plan for the Naracoorte, Bordertown, Jip Jip and Keith tenement blocks

This announcement has been authorised for release by the Directors of the Company.

LANTHANEIN RESOURCES LTD

The information referred to in this announcement relates to the following sources:

¹ 29/6/21 - Prospectus - Australian Rare Earths Limited (ar3.com.au)

Competent Person Statement:

The information in this report that relates to Exploration Results and Mineral Resources is based on information compiled by or compiled under the supervision of Peter Swiridiuk - Member of the Aust. Inst. of Geoscientists. Peter Swiridiuk is a Technical Consultant and Non-Executive Director for Lanthanein Resources. Peter Swiridiuk has sufficient experience which is relevant to the type of mineralisation and type of deposit under consideration to qualify as Competent Person as defined in the 2012 Edition of the Australasian Code of Reporting Exploration Results, Mineral Resources and Ore Resources. Peter Swiridiuk consents to the inclusion in the report of the matters based on the information in the form and context in which it appears. Additionally, Mr Swiridiuk confirms that the entity is not aware of any new information or data that materially affects the information contained in the ASX releases referred to in this report.