

28 June 2021

## **Advanced machine learning identifies nickel sulphide exploration targets at new Lennard Project, Western Australia**

Australian Mines Limited (“Australian Mines” or “the Company”) (Australia ASX: AUZ; USA OTCQB: AMSLF; Frankfurt Stock Exchange: MJH) advises that the native title process has now been successfully completed in relation to the Company’s 100%-owned<sup>1</sup> tenement E04/2529, known as the Lennard Project, in Western Australia’s Kimberley region (see Figure 1 of this report)

The Lennard tenement, which is pending grant by the Western Australia government<sup>2</sup>, immediately adjoins Chalice Mining’s Hawkstone Project<sup>3</sup> and Independence Group’s West Kimberley Joint Venture<sup>4</sup>. Both projects are targeting intrusive nickel sulphide mineralisation.

The geological setting at the Company’s Lennard Project is similar to Independence Group’s Nova Nickel-Cobalt-Copper operation in the Fraser Range of Western Australia and the more recent Julimar Nickel-Copper-Platinum discovery operated by Chalice northeast of Perth.

In parallel with the tenement application, Australian Mines commissioned a machine learning artificial intelligence (AI) study over the tenement utilising publicly available remote sensing (Landsat), magnetic and radiometric data. This study has identified areas with higher mineral prospectively to prioritise in the next phase of exploration at Lennard, which will target potential nickel sulphide mineralisation.

The Company’s forward exploration program Lennard will, therefore, include an airborne electromagnetic (AEM) survey coupled with detailed geological mapping and surface geochemical sampling programs, with any resulting anomalies scheduled for drill testing.

Details of the proposed AEM survey and supporting exploration programs over the Lennard Project will be released by the Company prior to their commencement.

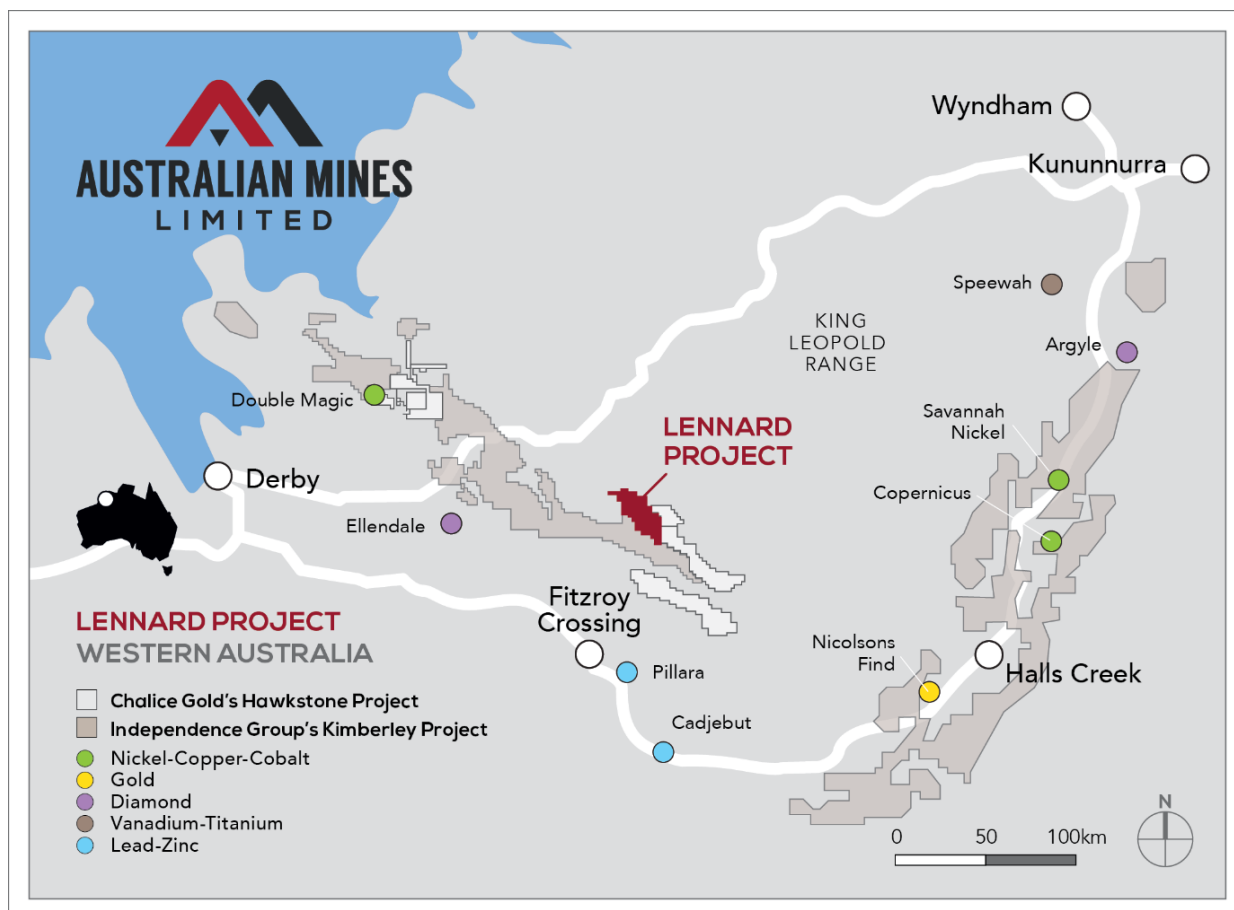
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<sup>1</sup> once granted

<sup>2</sup> Cautionary note: Shareholders should note that, as with all tenement applications submitted to the Western Australian Department of Mines, Industry Regulation and Safety, there is no guarantee that tenement E04/2529 will be granted by the Department.

<sup>3</sup> <https://chalicemining.com/project/hawkstone-nickel-copper-cobalt-project>

<sup>4</sup> <https://www.igo.com.au/site/exploration/strategy>; <https://www.asx.com.au/asxpdf/20200128/pdf/44dkdbt7v02438.pdf>



**Figure 1.** Australian Mines' Lennard Project in Western Australia's Kimberley region adjoins Independence Group's West Kimberley Joint Venture and Chalice Mining's Hawkstone Project, who (like Australian Mines) are targeting magmatic nickel-copper sulphide mineralisation across this emerging nickel belt<sup>5</sup>.

ENDS

If you have any queries specific to this announcement, please contact David Loch, Investor Relations Manager, at Australian Mines on +61 456 799 967 or [dloch@australianmines.com.au](mailto:dloch@australianmines.com.au)

<sup>5</sup> <https://chalicemining.com/project/hawkstone-nickel-copper-cobalt-project>; <https://www.igo.com.au/site/exploration/strategy>;

This ASX announcement has been approved and authorised for release by Benjamin Bell, Chief Executive and Managing Director of Australian Mines Limited.

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Australian Mines Limited is a member of IRMA, the Initiative for Responsible Mining Assurance. This means we are participating in, and supporting, credible independent third-party verification and certification against a comprehensive best-practice standard that addresses the range of environmental and social issues related to industrial-scale mines.

Additionally, Australian Mines Limited supports the vision of a world where the mining industry respects the human rights and aspirations of affected communities, provides safe, healthy and supportive workplaces, minimizes harm to the environment, and leaves positive legacies.



## Competent Person's Statement

The information in this report that relates to the Flemington Project's Exploration Results is based on information compiled by Benjamin Bell who is a member of the Australian Institute of Geoscientists. Mr Bell is a full-time employee and Managing Director of Australian Mines Limited. Mr Bell has sufficient experience that is relevant to the styles of mineralisation and types of deposit under consideration and to the activity which he is undertaking 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". Mr Bell consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

## Forward Looking Statements

This announcement contains forward looking statements. Forward looking statements can generally be identified by the use of forward looking words such as, 'expect', 'anticipate', 'likely', 'intend', 'should', 'could', 'may', 'predict', 'plan', 'propose', 'will', 'believe', 'forecast', 'estimate', 'target', 'outlook', 'guidance', 'potential' and other similar expressions within the meaning of securities laws of applicable jurisdictions.

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