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8 April 2025

Lady Grey Diamond Drilling Complete

- **Diamond Drilling of the high priority Modelled MLEM Conductor Plate under EM Line #1 complete**
- **MLEM Survey Line #1 target is aligned with a significant surface gold geochemical anomaly (256ppb Au) coincident with a regional structural zone favourable for hosting gold (ASX 24 Sept 2024)**
- **Historic Bounty Gold Mine which produced ~1.3 Moz Au¹ on Covalent Lithium's Mount Holland mine site, located adjacent to Lady Grey Gold Prospect**

Lanthanein Resources Limited (ASX: LNR) ("Lanthanein" or the "Company") is pleased to announce the diamond drilling at the Company's Lady Grey Project at Mt Holland in WA's Yilgarn to test a modelled conductor plate under Moving Loop EM (MLEM) Survey Line #1 is now complete.

The first hole (LGDH #4) was drilled to a depth of 325m with the second hole (LGDH #5) drilled on the same line approximately 200m to the east to a depth of 351m. The core from both holes has been transported to Perth where the detailed logging and sampling is nearing completion. It is anticipated that all samples will be dispatched to the laboratory shortly and that assays will be received in the next 6-8 weeks.

Mr Brian Thomas, Technical Director of Lanthanein commented: *"We are really very excited to have finally drill tested the higher-ranking modelled EM conductor plate under Line #1 which coincides with the 256 ppb Au UFF soil anomaly and the underexplored regional structural feature running up the middle of the tenement (ASX 24 September 2024).*

There were significant delays with finalising the drilling of the plate under Line #1 with unseasonal rains in the Mt Holland area in the second week of March causing disruption to drilling operations. We are grateful to Terra Drilling for their persistence and professionalism in getting the programme done."

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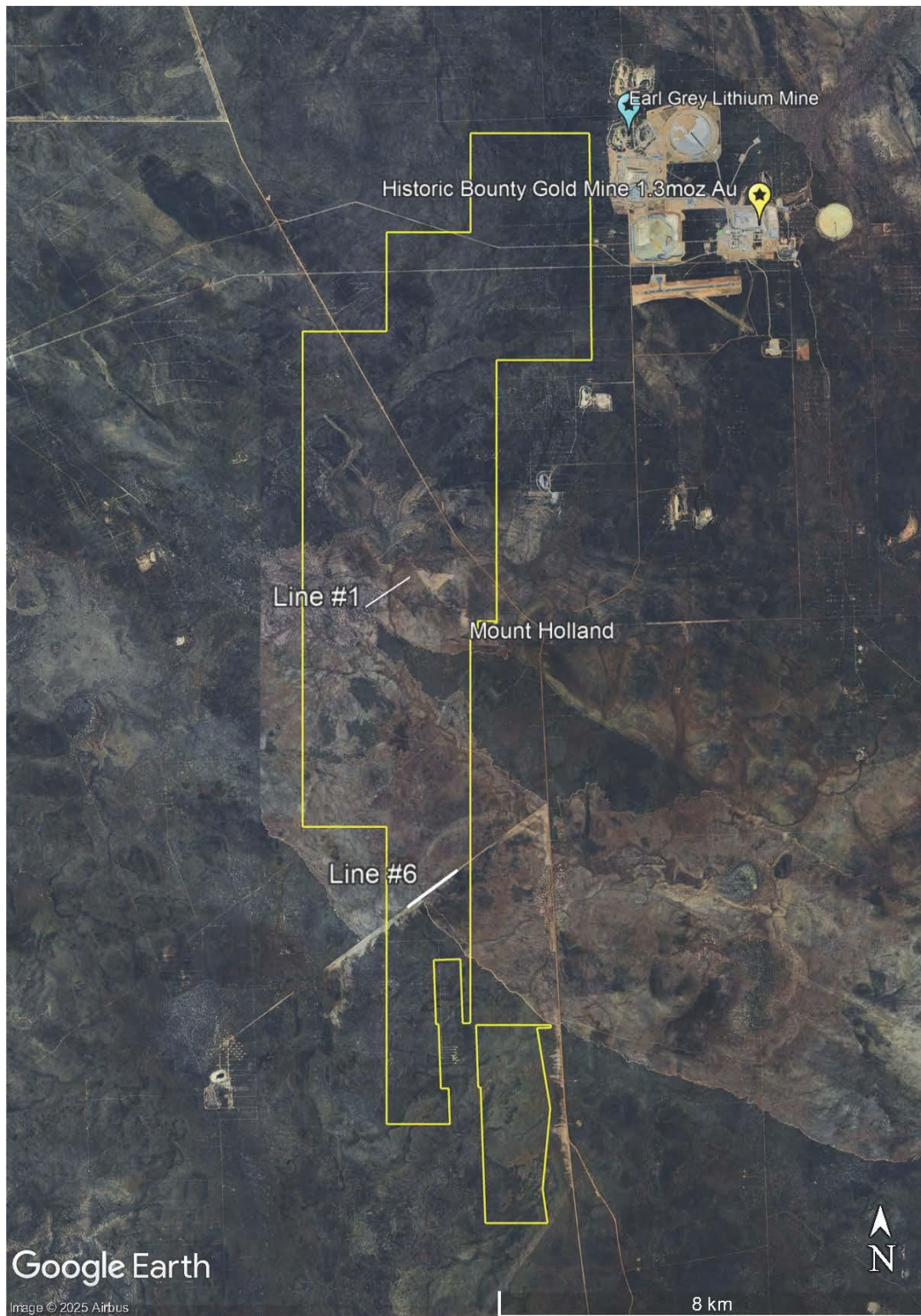


Figure 1: Lady Grey Project tenement E77/2143 outline (yellow), MLEM Drill Lines (white) overlain on a Google Earth satellite photo image.

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

For additional information please visit our website at www.lanthanein.com

LANTHANEIN RESOURCES LTD

The information referred to in this announcement relates to the following source(s):

¹ source: <https://portergeo.com.au/index.asp>.

Forward Looking Statements

This announcement includes forward-looking statements that are only predictions and are subject to known and unknown risks, uncertainties, assumptions and other important factors, many of which are beyond the control of Lanthanein, the directors and the Company's management. Such forward-looking statements are not guarantees of future performance.

Examples of forward-looking statements used in this announcement include use of the words 'may', 'could', 'believes', 'estimates', 'targets', 'expects', or 'intends' and other similar words that involve risks and uncertainties. These statements are based on an assessment of present economic and operating conditions, and on a number of assumptions regarding future events and actions that, as at the date of announcement, are expected to take place.

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This release includes exploration results the Company has previously reported 22 & 29 April, 15 May & 16 July 2024. The Company confirms that it is not aware of any new information or data that materially affects the information included in previous announcements (as may be cross referenced in the body of this announcement) and that all material assumptions and technical parameters underpinning the exploration results continue to apply and have not materially changed.