

## **AIRBORNE GEOPHYSICAL SURVEY COMPLETED TO IDENTIFY BASE LOAD TARGETS ACROSS UNTESTED & HIGHLY PROSPECTIVE SOUTHERN TENEMENT PACKAGE**

### **HIGHLIGHTS**

- Dacian's multi-tiered exploration target strategy focuses on satellite pit, underground and base load opportunities
- Mineral Systems approach applied to base load targeting, underpinned by higher resolution aeromagnetic surveys, geomechanical modelling, UltraFine soil surveys and geochronological age dating
- New high-quality aeromagnetic survey flown over Dacian's highly prospective southern tenements during March 2021
- Drilling of highly ranked and previously untested base load targets to commence in mid-2021

Dacian Gold Ltd (Dacian Gold or the Company) (ASX: DCN) is pleased to provide the following update on its exploration program targeting potential base load opportunities across its extensive Mt Morgans tenement package, located in Laverton, Western Australia.

Managing Director, Leigh Junk commented: "We have been busy laying the groundwork for our growth platform across the Laverton operations with the acquisition of the Redcliffe project bolstering our business. Another component of this platform has been our multi-pronged exploration strategy to unlock potential base load opportunities across our large Mt Morgans tenement position, specifically, our previously untested southern tenement package. Our recent endeavours have been focused on advancing these potential opportunities through the pipeline and we are excited to begin drill testing these targets on the path towards new discoveries."

### **MT MORGANS TENEMENT PACKAGE**

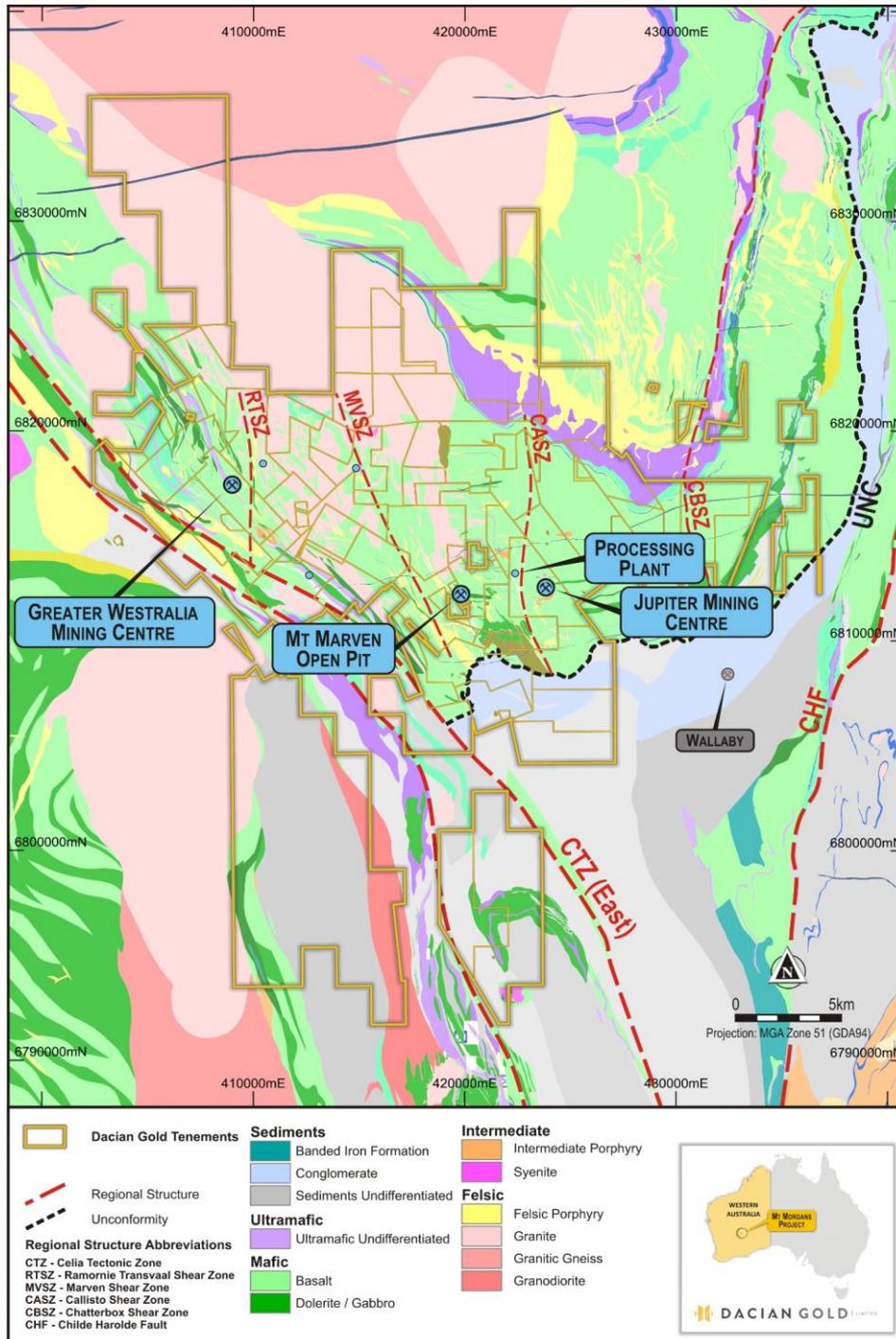
Dacian's Mt Morgans tenements total 608km<sup>2</sup> and are located in the highly prospective Laverton region, which ranks second to the Kalgoorlie region for gold endowment in the eastern Yilgarn Craton. The region hosts major gold deposits including Wallaby, Sunrise Dam and Granny Smith.

The Laverton Greenstone Belt dominates the region and comprises Neoproterozoic volcano-sedimentary rocks cut by steeply dipping, north to northwest-striking faults and intruded by syenites and granites. The faults have provided permeable pathways for the ascent of gold-enriched fluids and magmas.

Dacian is applying the Mineral Systems approach to base load target selection using a variety of innovative exploration techniques. The focus of this approach is being applied across the entire Mt Morgans tenement package, including the previously untested southern tenement package.

The Mineral Systems approach is supported by a variety of exploration techniques, including:

- Aeromagnetic Geophysical Survey
- Geomechanical Modelling
- UltraFine Soil Survey
- Geochronological Age Dating



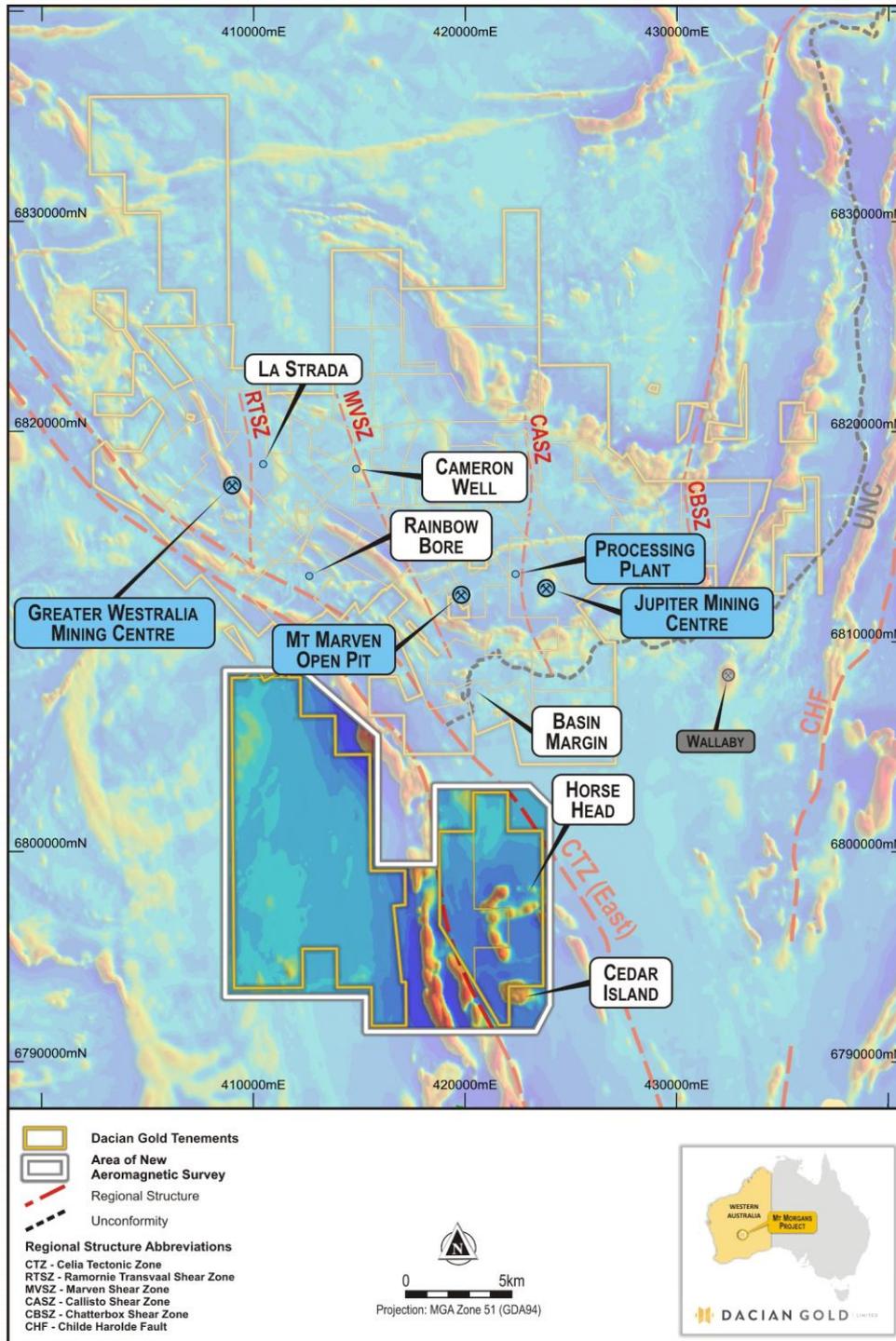
**Figure 1:** Regional geology map of Dacian's Mt Morgans tenement package showing major regional structures and location of key infrastructure

### Aeromagnetic Geophysical Survey

A comprehensive review of Dacian's existing geophysical data sets revealed a gap in detailed, high-quality aeromagnetic data coverage over the untested and highly prospective southern tenements covering Lake Carey.

Consequently, during March 2021 a new airborne magnetic and radiometric survey covering 4,252 line kilometres was flown at 50m line spacings. This new geophysical data covering 178km<sup>2</sup> will inform the identification and ranking of new base load targets for Dacian to add to its pipeline of exploration targets being advanced through to drill testing.

Previously, this area was flown at 400m line spacings and represents an area that was historically underexplored and highly prospective for well-endowed gold mineral systems.



**Figure 2:** Regional aeromagnetic map (Total Magnetic Intensity) flown at coarse 400m line spacings with the new aeromagnetic survey flown at 50m line spacings outlined over the southern tenements

### Geomechanical Modelling

Geomechanical modelling over all of Dacian’s Mt Morgans tenements was commenced by GMEX Services Pty Ltd in January 2021. Geomechanical modelling is a highly predictive tool that identifies the best structural targets for localising gold-bearing fluids in a mineral system and is ideally suited to structurally controlled orogenic gold deposits such as those discovered in the Laverton region (e.g. Sunrise Dam).

These results will be used in collaboration with the new geophysical survey information to define high priority base load exploration targets to be tested later this year.

## UltraFine Soil Survey

The innovative UltraFine soil sampling technique detects gold anomalies that are absent in soils in covered areas using traditional survey sampling methods and analytical techniques. Orientation soil surveys using the UltraFine technique have been undertaken by Dacian in advance of larger scale soil surveys and drilling. Three targets with different types of cover are being tested currently and include Rainbow Bore (banded iron formation), La Strada (shear hosted mafic volcanics) and the Basin Margin (clastic sediments).

## Geochronological Age Dating

The Wallaby mine in the Laverton Greenstone Belt is the most well-endowed gold deposit in the region and is spatially and temporarily associated with syenitic rocks. Syenites are similarly associated with gold mineralisation at Dacian's Jupiter mine and Cameron Well project.

These syenites will be dated using cutting edge geochronological methods at the John de Laeter Centre, Curtin University, to test whether these deposits are associated with the same gold mineralisation events. Additional syenites and associated felsic rocks will be dated as exploration programs progress, potentially including those at Cedar Island and the prospects along the Celia Tectonic Zone.

## NEXT STEPS

The recently flown aeromagnetic survey data and geomechanical modelling work streams are currently being assessed. These results will inform Dacian's exploration drill programs underway this year with drilling of base load opportunities across the southern tenement package beginning mid-2021.

- ENDS -

This announcement has been approved and authorised for release by the board of Dacian Gold Limited.

For further information, please contact:

Leigh Junk Managing Director Dacian Gold Limited +61 8 6323 9000 info@daciangold.com.au	Phil Russo GM – Corporate Development Dacian Gold Limited +61 8 6323 9000 info@daciangold.com.au
---	--