



## QUARTERLY ACTIVITY REPORT FOR THE PERIOD ENDING 31 DECEMBER 2019

### HIGHLIGHTS

#### Wallbrook Gold Project

- ❖ Interpretation of results from first pass aircore drill program on two prospect areas - Crusader and Templar - within its highly prospective 250km<sup>2</sup> Wallbrook Gold Project;
- ❖ The 91 hole / 4,375m aircore program successfully intersected high grade gold mineralisation in the Crusader – Templar corridor. Results include:
  - Hole #19 - 3m @ 8.37g/t Au (eoh)
    - Incl 1m @ 24.43g/t Au (eoh)
  - Hole #35 - 18m @ 1.40g/t Au
    - Incl 4m @ 6.46g/t Au
  - Hole #17 - 26m @ 1.02g/t Au
    - Incl 4m @ 5.03g/t Au
  - Hole #36 - 8m @ 1.72g/t Au
    - Incl 3m @ 3.27g/t Au (eoh)
    - Incl 1m @ 7.23g/t Au (eoh)
  - Hole #14 - 4m @ 2.23g/t Au
- ❖ Mine studies continued at Crusader resource area to determine potential for establishing initial open cut pit;

During the quarter ended 31 December 2019, Eastern goldfields explorer **Nexus Minerals Limited (ASX: NXM) (Nexus or the Company)** completed interpretation from the 91 hole / 4,375m aircore drill program, on its 100% owned Wallbrook project in the eastern goldfields of Western Australia. The drilling was undertaken on high priority drill targets within the Crusader and Templar Prospects (refer announcement 8 October 2019).

Nexus is also continuing mine studies at the Crusader mineral resource area, currently containing 85,000 ounces gold (refer announcement 8 July 2019), with the aim of determining the potential for a stage 1 starter pit, and subsequent staged open cut pit development options.

In addition, ground-based exploration activities including geological mapping and sampling, continues across the larger Wallbrook Gold Project tenement package.

#### ASX: NXM

#### Capital Structure

Shares on Issue 118 million  
Options 15.9 million  
Cash on Hand \$2.98million  
(31/12/2019)

#### Corporate Directory

Mr Paul Boyatzis  
Non-Executive Chairman

Mr Andy Tudor  
Managing Director

Dr Mark Elliott  
Non-Executive Director

Mr Bruce Maluish  
Non-Executive Director

Mr Phillip Macleod  
Company Secretary

#### Company GOLD Projects

Wallbrook Project

Pinnacles Project

Pinnacles JV Project  
(with Saracen Gold Mines)

Triumph Project

Mt Celia Project



# NEXUSMINERALS

The Wallbrook project covers some 250km<sup>2</sup> of prospective geological terrain considered highly prospective for the discovery of significant gold mineralisation.

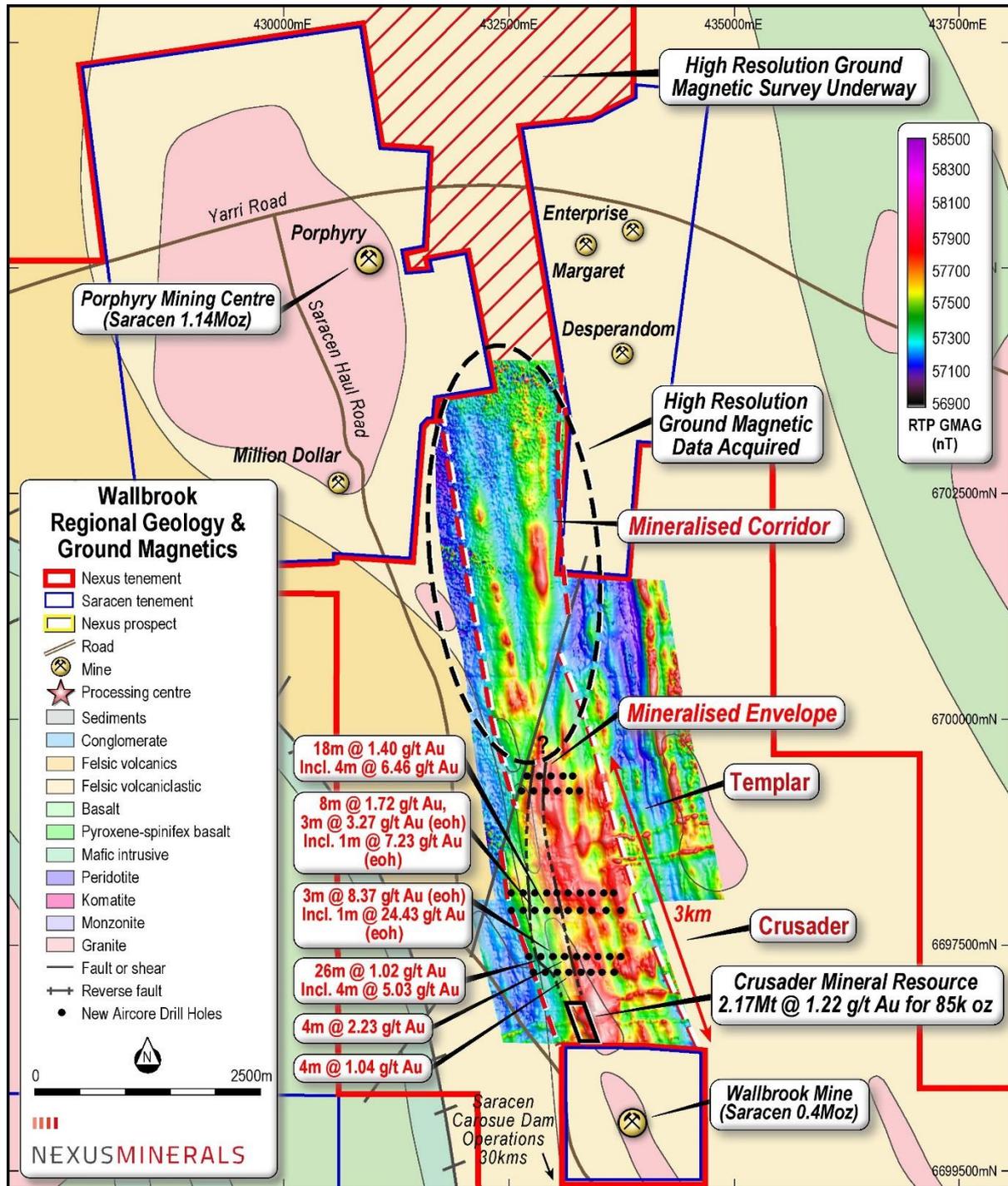


Figure 1: Crusader and Templar Prospects with Aircore Lines (over ground magnetics)



# NEXUSMINERALS

## **Pinnacles Gold Project**

No field work was undertaken during the quarter.

## **Triumph Project**

Field work continued during the quarter on the ~140km<sup>2</sup> tenement package.

Ground geological mapping and ground truthing of aeromagnetic data was undertaken.

## **Mt Celia Project**

No field work was undertaken during the quarter.

## **March 2020 Quarter – Work Program**

During the March 2020 quarter, the Company intends to undertake the following activities:

### **Wallbrook Gold Project**

- Continue to analyze/model Crusader drill data;
- Complete mine studies at the Crusader Mineral Resource area;
- Continue regional high-resolution ground magnetics survey through The Gap prospect;
- Commence mine studies at the Pinnacles Mineral Resource area;
- Geological and structural mapping; and
- R&D sampling.

## **Corporate**

At the end of the December 2019 quarter, the Company held A\$2.98m cash and equivalents.

## **Nexus R&D Project**

Nexus is undertaking a Research and Development project, aiming to develop new knowledge on the application of spectral data in the mineral exploration industry. The project involves the experimentation of new exploration and geo-sensing techniques utilizing spectral data.

The experimental activities will attempt to achieve an outcome by applying a systematic progression of work that proceeds from hypothesis to experimental phase (or phases as required), observation and evaluation, leading to logical conclusions. This will result in the generation of new scientific knowledge.

The R&D project is being undertaken on both Nexus' Wallbrook and Pinnacles Gold Projects, where relevant geological and mineralogical characteristics are known or are being characterized by Nexus, which assists in the evaluation of the new exploration technique. Multiple project areas allow for a series of varying geological settings upon which to undertake the experimental activities and gather sufficient samples/datasets to allow logical conclusions to be reached post analysis.

The research and development project will be undertaken over an approximate four-year time line, which commenced July 2017, with the first two-three years mainly consisting of data collection with ongoing analysis and the final year consisting of results-based interpretation and conclusions.

The drill chip trays from the 2019 RC drill program at Wallbrook, and those from the recently completed aircore program at Templar, will be analysed in the March 2020 quarter, using a TerraSpec SWIR unit attached to spectra acquisition software.



# NEXUSMINERALS

## About Nexus

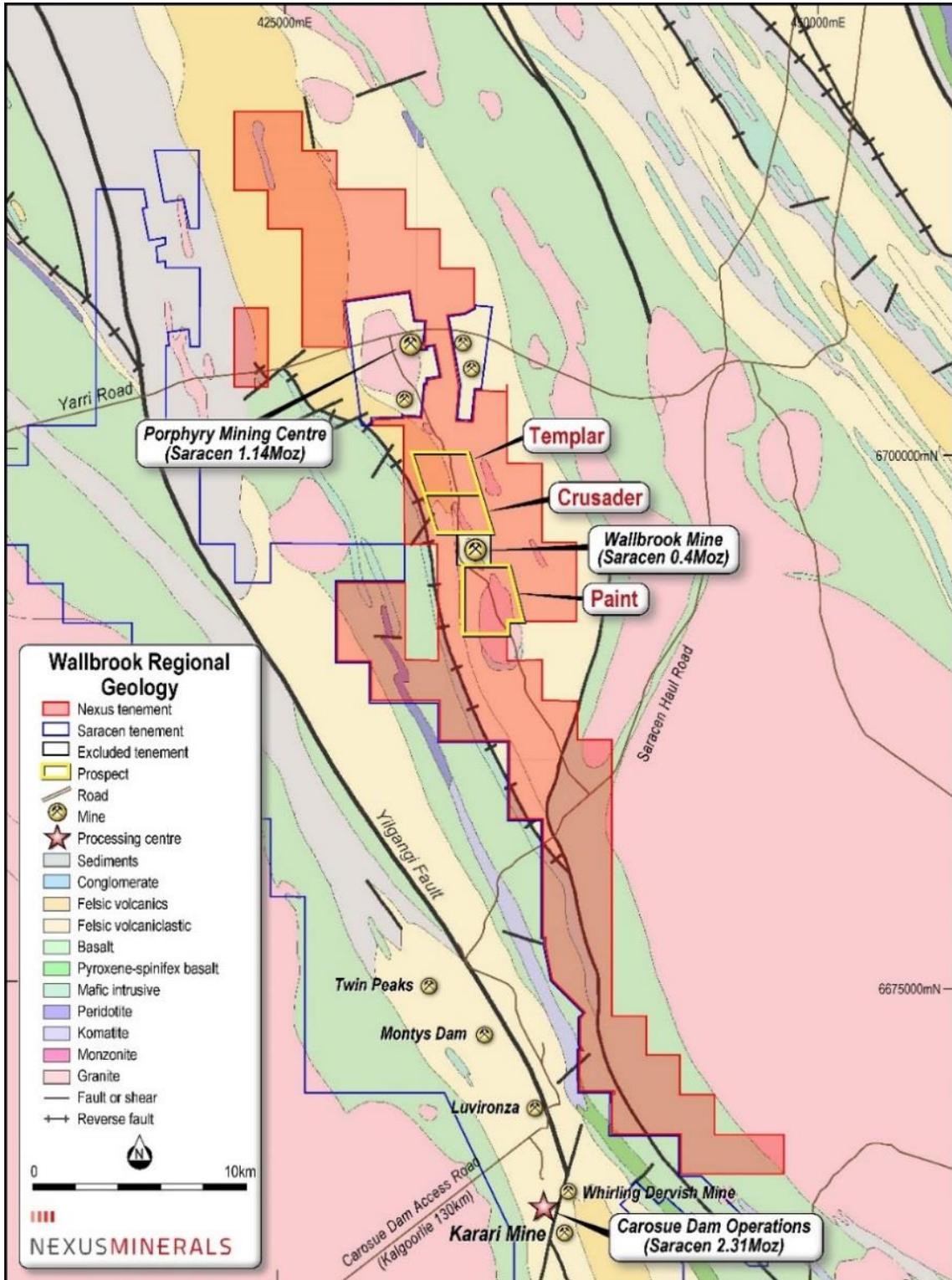
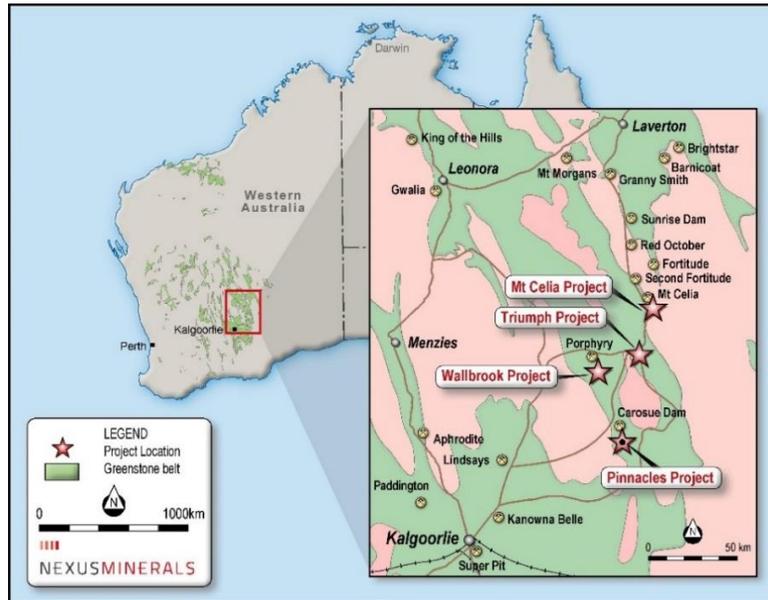


Figure 2: Nexus Wallbrook Project, Eastern Goldfields, WA



# NEXUSMINERALS



**Figure 3: Nexus Project Locations, Eastern Goldfields, WA**

Nexus Minerals is a well-funded resource company with a portfolio of gold projects in Western Australia and a well-credentialed Board, assisted by an experienced management team.

Nexus is actively exploring for gold deposits on its highly prospective tenement package in the Eastern Goldfields of Western Australia.

The consolidation of the highly prospective Wallbrook Gold Project (250km<sup>2</sup>) by the amalgamation of existing Nexus tenements with those acquired from both Saracen Mineral Holdings and Newmont Exploration, will further advance these gold exploration efforts.

Nexus Minerals' tenement package at the Pinnacles Gold Project is largely underexplored and commences less than 5km to the south of, and along strike from, Saracen's >5Moz Carosue Dam mining operations, and current operating Karari underground gold mine. Nexus holds a significant land package (125km<sup>2</sup>) of highly prospective geological terrane within a major regional structural corridor and is exploring for gold deposits.

Nexus is actively investing in new exploration techniques to refine the targeting approach for their current and future tenements, including the use of spectral data.

- Ends -

**Enquiries**      **Mr Andy Tudor, Managing Director**  
                         **Mr Paul Boyatzis, Non-Executive Chairman**

**Contact**        **Phone: 08 9481 1749**  
**Website**       [www.nexus-minerals.com](http://www.nexus-minerals.com)

**ASX Code**     **NXM**



# NEXUS MINERALS

## SUMMARY OF NEXUS MINERALS LIMITED TENEMENTS

AUSTRALIA	Interest at beginning of Quarter	Interest at end of Quarter
<b>Wallbrook (Gold)</b>		
E31/1160	100%	100%
M31/157	100%	100%
M31/188	100%	100%
M31/190	100%	100%
M31/191	100%	100%
M31/231	100%	100%
M31/251	100%	100%
E31/1107	100%	100%
E31/1108	100%	100%
E31/1118	100%	100%
<b>Pinnacles (Gold)</b>		
M28/243	89% Contributing JV	89% Contributing JV
E28/2526	90%	90%
E28/2487	100%	100%
<b>Triumph (Gold)</b>		
E31/1161	100%	100%
E39/2044	100%	100%
E39/2045	100%	100%
E31/1179	100%	90%
<b>Mt Celia (Gold)</b>		
E39/2025	100%	100%

The information in this report that relates to Exploration Results, Mineral Resources or Ore Reserves is based on, and fairly represents, information and supporting documentation, prepared, compiled or reviewed by Mr Andy Tudor, who is a Member of the Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Mr Tudor is the Managing Director and full-time employee of Nexus Minerals Limited. Mr Tudor has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity for which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the "Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Tudor consents to the inclusion in the report of the matters based on his information in the form and context in which it appears. The results are available to be viewed on the Company website [www.nexus-minerals.com](http://www.nexus-minerals.com). The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original announcements.

The information in this report that relates to the Crusader Mineral Resource Estimate is based upon information compiled by Mr Adam James, a Competent Person who is a member of The Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Mr James is a full-time employee of Nexus Minerals Limited. Mr James 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'. Mr James consents to the inclusion in the report of matters based on his information in the form and context in which it appears.

No Ore Reserves have currently been defined on the Pinnacles or Wallbrook tenements. There has been insufficient exploration and technical studies to estimate an Ore Reserve and it is uncertain if further exploration and/or technical studies will result in the estimation of an Ore Reserve. The potential for the development of a mining operation and sale of ore from the Pinnacles or Wallbrook tenements has yet to be established.