

# Artemis Resources Limited

**ASX: ARV**

**Australian focused Mining Exploration and Development**  
**Gold, Nickel, Copper, Zinc, Platinum, Iron Ore**  
**Karratha – West Pilbara -Western Australia**



Gold Nugget, Karratha, WA

## Investor Update

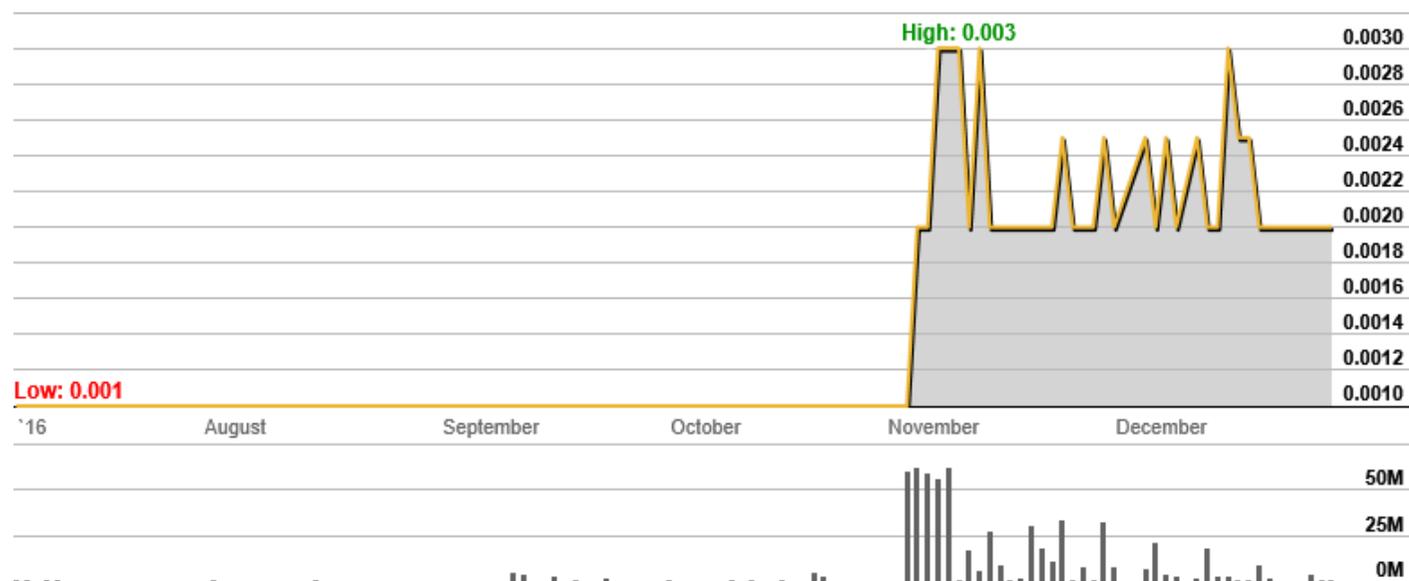


9 January 2017

# Corporate Structure

<b>Issued Share Capital (at December 2016)</b>	
ASX Code	<b>ASX: ARV</b>
Shares on Issue	4,345,441,492
Unlisted Options (\$0.001, Expiry 30 Sept 2017)	2,317,841,748
<b>Other Key Statistics</b>	
Debt	No Debt
Market Capitalisation (at \$0.002 per share) (at 0.2 cents per share)	A\$8.6 million
<b>Top 20 Shareholders</b>	<b>&gt;80%</b>

ARV Share Price 6 months to 31/12/16



# Why Artemis Resources?

## ***“FAST GROWING AUSTRALIAN RESOURCES COMPANY”***

- Large tenement package in Karratha Region, Western Australia.
- Gold, Nickel, Copper, Zinc, Platinum and Iron Ore
- 110,000 ounces of Gold in Resources at Weerianna and Carlow Castle.
- Commencing gold production at Nickol River in Q2 2017
- Largest Platinum resource in Australia at Munni Munni.
  - Resource: 24 Mt @ 2.9 g/t Platinum Group Element (PGE) + gold (1.4Mt Inferred, 9.8Mt indicated and 12.4Mt Measured) (0.83Moz platinum. 1.14Moz palladium, 152Koz gold and 76Koz rhodium).
- Option deal signed in December to acquire fully approved 425,000 tpa Radio Hill Nickel/Copper mine, plant and extensive Ni, Cu and Zn resources for \$3.5 million.
- Mt Clement-Paulens Gold Project (Ashburton Region, WA)
  - Resources (JORC 2004) already identified of 1.1 Million tonnes (Mt) @ 1.77 grams/tonne gold (g/t Au) and 17 grams per tonne Silver (g/t Ag) for a contained 64,400 ounces (oz) Au and 618,500 oz Ag.

# Deal to Acquire Radio Hill Ni/Cu Mine

## NEW ACQUISITION:

**ARTEMIS: OPTION SIGNED TO ACQUIRE THE AGIP RADIO HILL MINE PROCESSING PLANT FOR A\$3.5 MILLION**

**RESOURCES OF NICKEL, COPPER, ZINC.**

**FIRST TIME THE PROCESSING PLANT AND RESOURCES IN KARRATHA REGION HAVE BEEN CONSOLIDATED IN TO ONE COMPANY.**



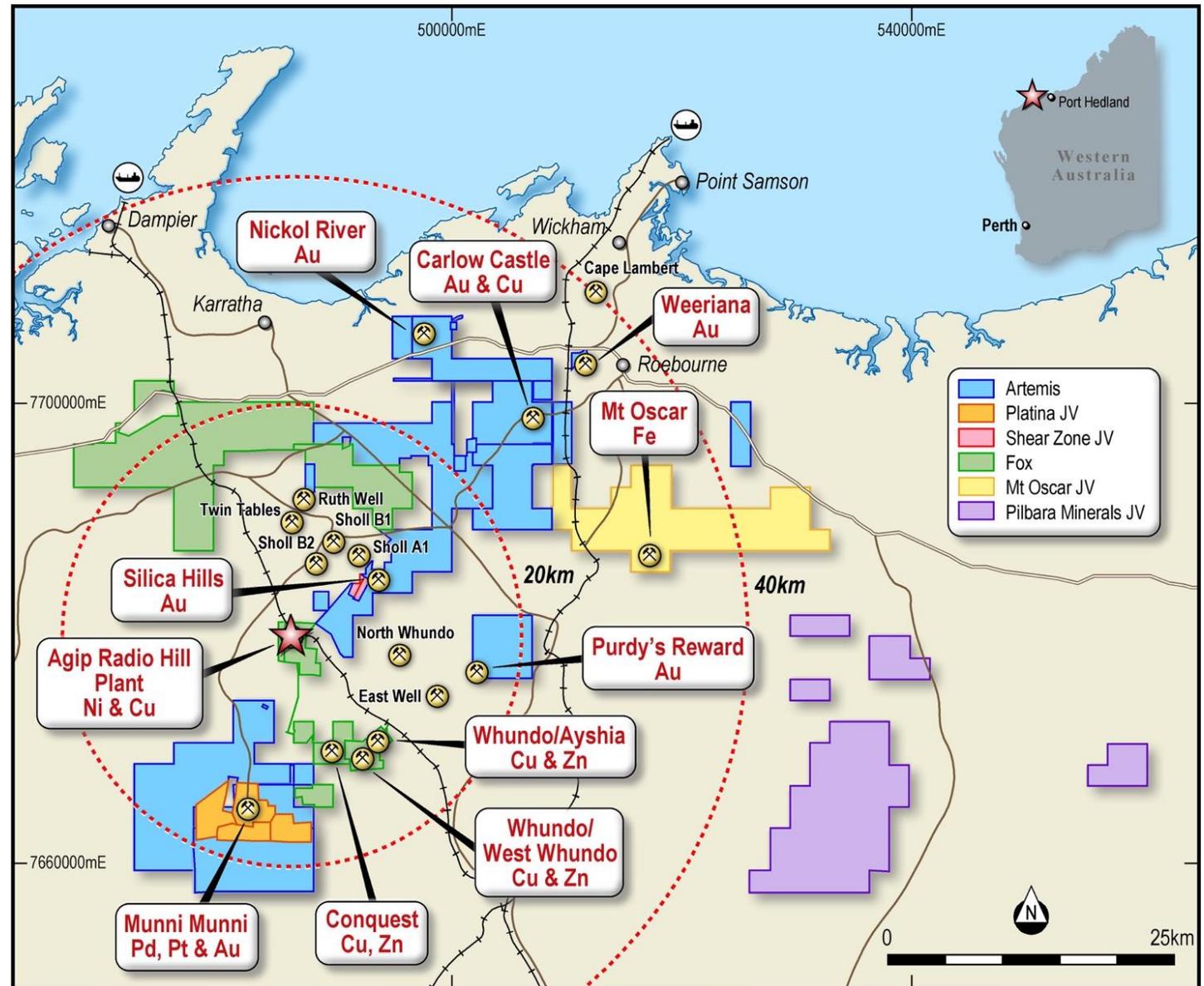
425,000 tpa Radio Hill Treatment Plant – Karratha, WA

# Radio Hill Assets to be Purchased

- Fully permitted **Radio Hill** mining operations and associated infrastructure, 35 Km south of Karratha.
- Importantly, includes the 425,000 tpa Radio Hill nickel and copper processing plant, tailings storage facility, administration and maintenance buildings and fully developed underground mine, which was originally built by AGIP and placed on care and maintenance by Fox in 2008.
- Radio Hill resource of 4.02 Mt grading 0.51% Ni and 0.88% Cu, with significant exploration potential.
- Fox tenements covering 495 km<sup>2</sup>, which increase's Artemis's tenement holding to 938 km<sup>2</sup>.
- Whundo West Copper/Zinc Deposit of 1.7 Mt grading 1.1% Cu and 0.94% Zn, with expansion potential.
- Whundo Ayshia Zinc Deposit with Resources of 1.2 Mt grading 1.93% Zn, with expansion potential.
- Acquisition includes:
  - Fox' interest in the Mt Oscar Joint Venture with Magnetite Resources totaling 126 Mt @ 33.8% Fe.
  - Fox' interest in the Pilbara Minerals Limited (ASX: PLS) Joint Venture which is prospective for nickel, copper and zinc.

# Overview – Advanced Karratha Projects

- Consolidation of Gold, Nickel, Copper, Zinc, Iron Ore in Karratha Region of Western.
- Tenements covering 938 Km<sup>2</sup>.
- Mining studies to be undertaken at Munni Munni (Pt/Pd).
- Mining to commence at Nickol River (gold).
- Mining studies to be undertaken to re-commence Ni/Cu production at Radio Hill.



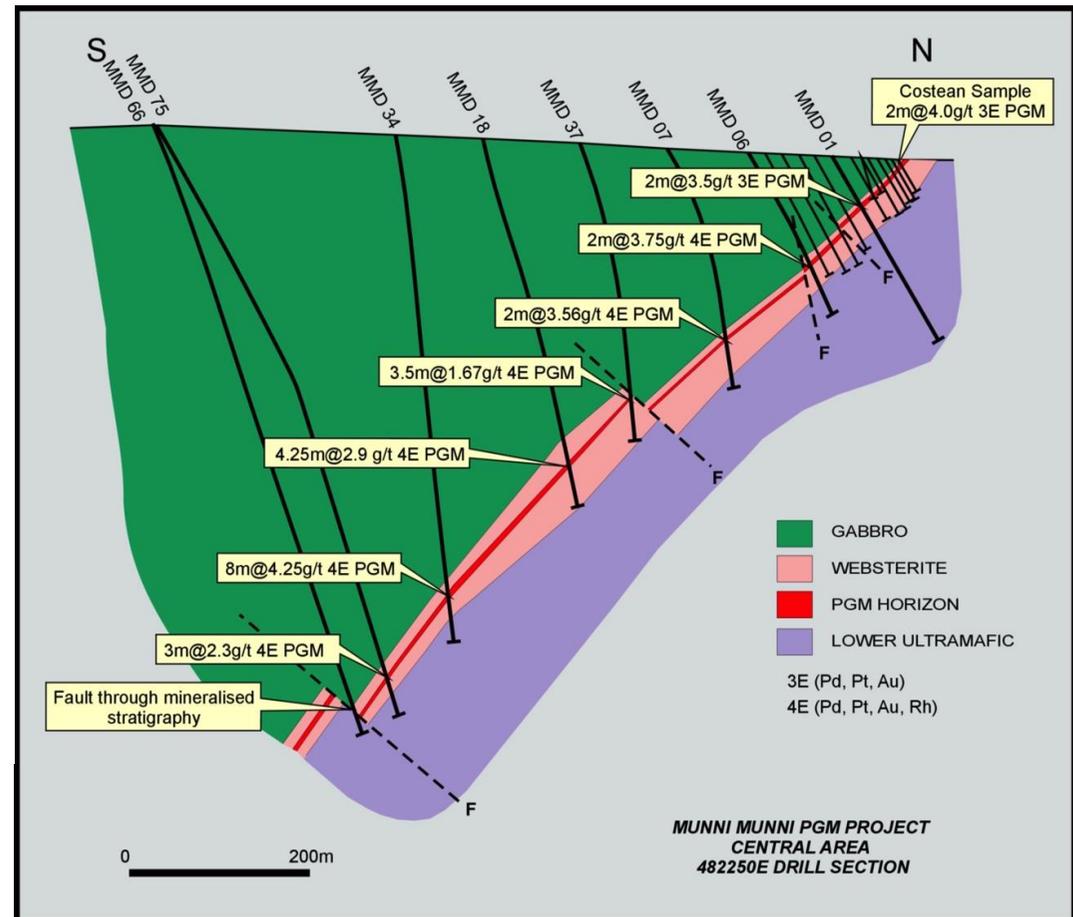
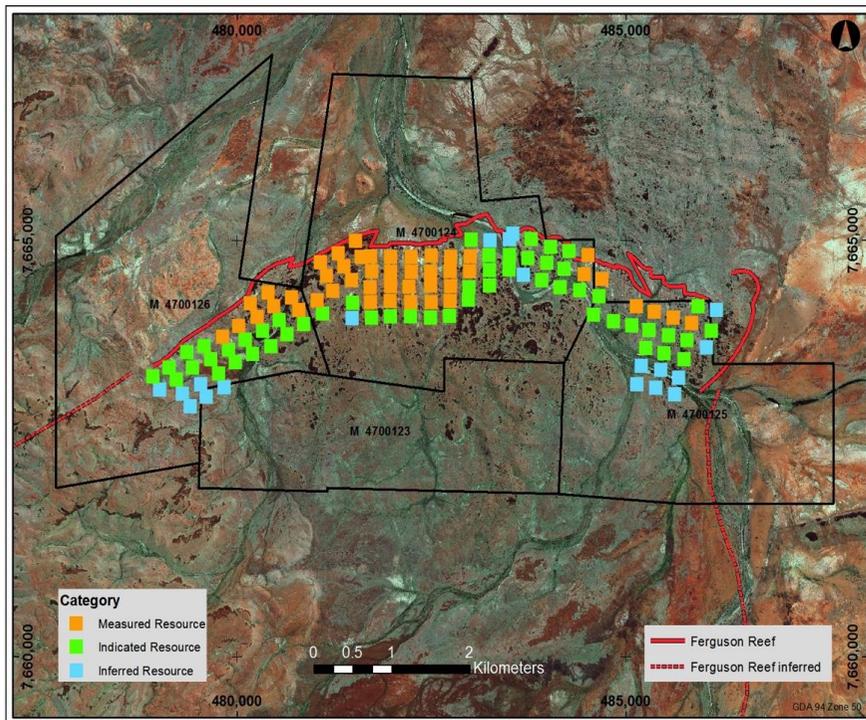
Artemis's large tenement position in Karratha, WA (Incl. Radio Hill acquisition)

# Karratha Mining & Exploration Assets

- **Artemis is the largest licence holder in the Karratha Region of Western Australia.**
- Gold and Copper Resources at **Carlow Castle**:
  - Inferred Resource: **416Kt @ 2.9g/t Au, and 0.6% Cu, 40K oz Au and 2.5Kt Cu**
- Gold Resources at **Weerianna**:
  - Inferred Resource: **1Mt @ 2.2g/t Au, 70K oz Au**
  - Trenching to increase resource quantity and category started on 9 January 2017
- **Nickol River Gold Project**:
  - Plans to install a 150 tonne per hour gravity gold plant at Nickol River, located only 12km from Karratha.
  - Artemis has identified significant areas at Nickol River at depths of between 2 to 6 metres that would potentially be amenable to bulk scale mining and processing.
  - Substantial amount of previous geological and mining work completed that is all pre JORC.
- Gold Discovery **Silica Hills**:
  - High grade visible gold exposed in multiple quartz reef systems.
  - Initial 38.3 ounces of fine gold from 27Kg of sample sold through the Perth Mint.

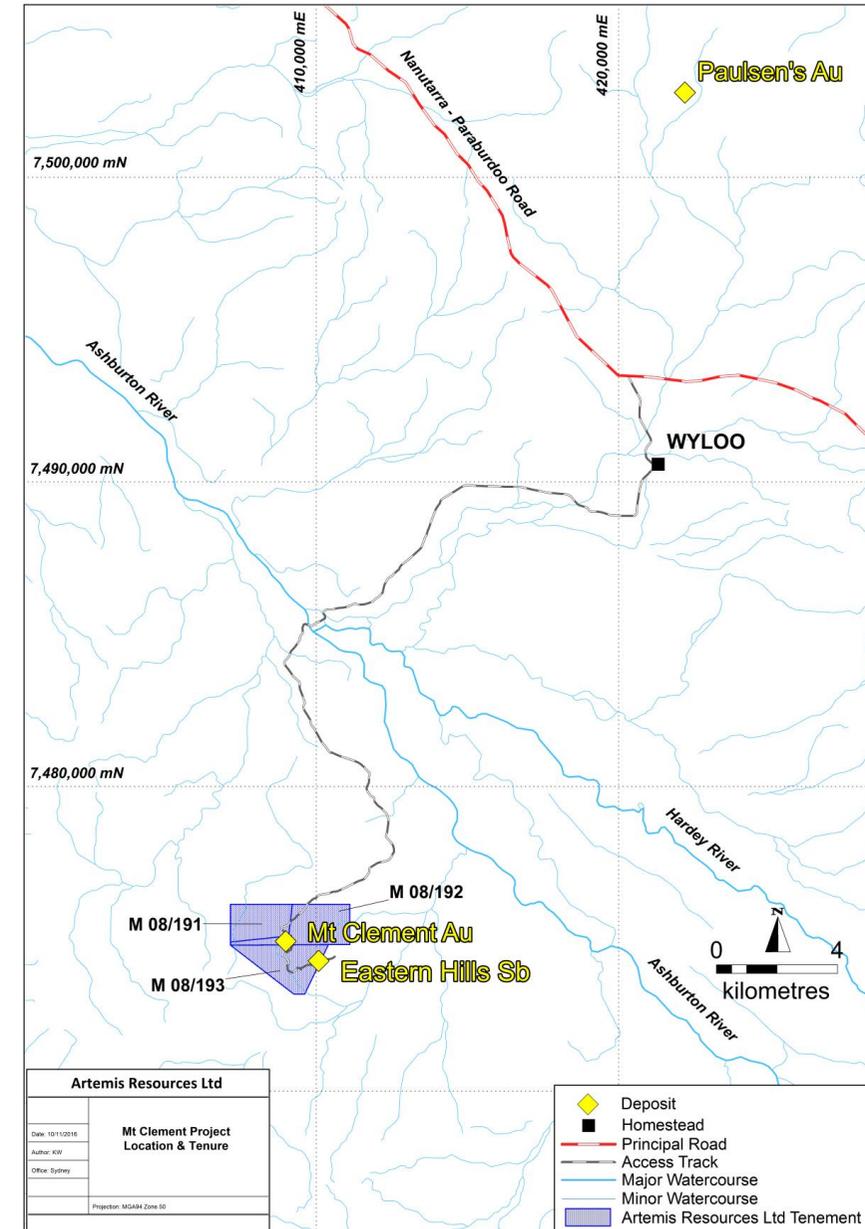
# Munni Munni - Platinum and Palladium

- Platinum Group Element Resources at Munni Munni:
  - Munni Munni is the largest PGE Resources in Australia
  - Resource\*: **24 Mt @ 2.9 g/t Platinum Group Element (PGE) + gold** (1.4Mt Inferred, 9.8Mt indicated and 12.4Mt Measured) (**0.83Moz platinum. 1.14Moz palladium, 152Koz gold and 76Koz rhodium**).



# Overview: Mt Clement-Paulsens Gold Project

- Exploration programme and metallurgical test work to commence on the Mt Clement-Paulsen's Gold Project located only 35km south of Northern Star Resources' Paulsen's Gold Mine.
- Current identified Inferred Resource (JORC 2004) already identified of 1.131 Million tonnes (Mt) @ 1.77 grams/tonne gold (g/t Au) and 17 grams per tonne Silver (g/t Ag) for a contained **64,400 ounces (oz) Au** and **618,500 oz Ag** mineralisation open at depth and along strike.
- 8.2 km<sup>2</sup> tenement package comprising three approved Mining Leases.
- Mining Leases cover the identified gold resource which have been native title cleared.
- Mining Leases with an area of 8.2km<sup>2</sup> : 80% owned by Artemis with Northern Star Resources owing 20% under a joint venture agreement.





# Summary: Resource Development– Value Proposition

## Objectives:

- Build on existing resources and generate new discoveries.
- Gold production at Nickol River (Karratha) Q2 2017.
- Monetise resources in West Pilbara – Purchase of Radio Hill Mine and Processing plant.
- Develop a gold mine at Mt Clement-Paulsens (Ashburton Region).
- Enlarge Munni Munni PGE deposit.
- Active news flow in 2017.

## What has changed?

- Successful consolidation of fragmented tenure into ONE Company.
- Ability to discover new high grade shallow gold resources.
- New exploration model for precious metals associated with layered intrusions.

# Board of Directors

	<p><b>David Lenigas - Executive Chairman</b></p> <p>Mr Lenigas is an experienced mining engineer with significant global resources and corporate experience, having served as executive chairman, chairman, and non-executive director of many public listed companies in London, Canada, Johannesburg, and Australia. In recent years, Mr Lenigas was the Executive Chairman of London listed lithium investment company Rare Earth Minerals Plc, which has been responsible for providing significant funding for the development of the large Sonora Lithium Project in Mexico and the Cinovec Lithium Project in the Czech Republic. He is currently non-executive director of Canadian listed Australian company Macarthur Minerals, whose major shareholder is Rare Earth Minerals Plc. Mr Lenigas was also, until recently, the Executive Chairman of London listed UK Oil &amp; Gas Investments Plc, which was responsible for the new Horse Hill oil discovery near London's Gatwick International Airport that flowed on test a UK onshore record of 1,688 barrels of oil per day. He is now the Executive Chairman of London listed Doriemus Plc, which owns an interest in the Horse Hill oil discovery and is working with its JV partners towards moving Horse Hill into production. Mr Lenigas has a Bachelor of Applied Science (Mining Engineering)(Distinction) from Curtin University's Kalgoorlie School of Mines and holds a Western Australian First Class Mine Manager's Certificate of Competency.</p>
	<p><b>Edward Mead - Executive Director</b></p> <p>Mr Mead is a geologist with 20 years experience in gold and base metals exploration, mine development and mine production. Mr Mead has also worked in the oil and gas industry on offshore drilling platforms. Other commodities that he has significant experience with and can be considered to be a competent person in are iron ore, magnetite, coal, manganese, lithium, potash and uranium. Geological areas in Western Australia that he has worked in include the West Pilbara for base metals and gold. The East Pilbara for manganese and gold. The Yilgarn for gold. The Kimberley for base metals, gold and uranium. The Murchison for base metals, uranium and gold. He has a BSc in geology from Canterbury University in New Zealand and is a member of the Australian Institute of Mining and Metallurgy. He has worked for the Geological Survey of Western Australia, Portman Mining, Western Mining Corporation (BHPB), Sons of Gwalia, Fox Resources, Comdek Ltd and Baker Hughes Inteq and a number of other companies through his own consultancy.</p>
	<p><b>Alex Duncan-Kemp - Executive Director</b></p> <p>Mr Duncan-Kemp is an experienced mining engineer with over 20 years experience in gold, iron ore and base metal mine development and mining operations. Mr Duncan-Kemp has also worked on public infrastructure projects in construction of roads and construction earthworks. Mr Duncan-Kemp has worked in the Pilbara and Kimberley on iron ore, both haematitic and magnetite ores, the Yilgarn Eastern and North-eastern Goldfields on gold, the Eastern Goldfields on Nickel, Northwest Queensland on phosphate, the Murchison on gold and copper operations. He has also worked of a large civil and mining contractor in both operations and project tendering areas. Mr Duncan-Kemp has a Bachelor of Applied Science (Mining Engineering) from Curtin University's Kalgoorlie School of Mines and is the holder of a Western Australian First Class Mine Managers Certificate of Competency and is a Member of the AusIMM.</p>
	<p><b>George Frangeskides - Non-Executive Director</b></p> <p>Mr Frangeskides has a broad range of experience gained from over 15 years in the legal and corporate advisory sectors in Australia and the United Kingdom. George is an Executive Director at Berwick Capital, a corporate advisory firm which specialises in natural resources and which advises ASX and AIM-listed companies on projects and transactions in the mining and oil and gas sectors. Prior to establishing Berwick Capital, George practised as a lawyer focusing on corporate finance, commercial and capital market transactions.</p>
	<p><b>Campbell Baird - Non-executive Director</b></p> <p>Mr Baird, has over 20 years of mining experience. As former CEO of Focus Minerals Pty Ltd, a Western Australian gold producer, he increased annual gold production from 5,000 ounces in 2008 to 175,000 ounces in 2012. This was achieved through organic development and strategic acquisitions. Prior to holding this position Mr Baird had extensive international experience developing projects in Finland for Vulcan Resources and leading multiple feasibility studies across multiple commodities for SRK Consulting. Mr Baird has a bachelor of Engineering (Mining) from UNSW and a Masters of International Finance from Curtin University, he is a Member of the AusIMM &amp; AICD and he sits on the Association of Mining and Exploration Council in Australia as Treasurer.</p>

# Contact Details

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## Competent Person Statements

The information in this document that relates to Exploration Results and Exploration Targets is based on information compiled or reviewed by Edward Mead, who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Mead is a Director of Artemis Resources Limited and is a consultant to the Company, and is employed by Doraleda Pty Ltd. Mr Mead has sufficient experience which is relevant to the style of mineralisation and type 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 Mead consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

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## Announcements referred to in Presentation

- ASX Announcement dated 4<sup>th</sup> January 2017 “Plans Trial Gold Production Nickol River, Karratha Q2 2017”
- ASX Announcement dated 6<sup>th</sup> December 2016 “To Purchase Fully Permitted Radio Hill Plant and Resources”
- ASX Announcement dated 14<sup>th</sup> November 2016 “Mt Clement-Paulsen’s Gold Project Commencement Exploration”
- ASX Announcement dated 26<sup>th</sup> June 2016 “Acquisition of Gold Deposit to Kickstart Pilbara Exploration”
- As per ASX announcement dated 5 August 2015 “Artemis to earn majority interest in Australia’s largest Platinum project”

In accordance with Listing Rule 5.23.2, Artemis confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcement referred to above, and that in the case of mineral resources that all material assumptions and technical parameters underpinning the estimates in the announcement referred to continue to apply and have not materially changed.