

# ASX Announcement

## Nolans Phase 5 Pilot Plant Complete

28 November 2018



- **Rare Earth Purification and Precipitation piloting completed successfully**

**Arafura Resources Limited (ASX: ARU) (Arafura or the Company)** is pleased to provide an update on the flowsheet piloting program for its 100 per cent-owned Nolans Neodymium-Praseodymium (NdPr) project in the Northern Territory.

Operation of the first of the Company's Rare Earth Processing pilot plants – Phase 5 Rare Earth Purification and Precipitation – is now complete. This phase of piloting takes NdPr-rich rare earth sulphate material through purification and precipitation processes to produce rare earth hydroxide. The pilot ran continuously over a five-day period at ALS Metallurgical Services (ALS) facilities in Perth, processing feedstock from Arafura's Acid Bake pilot plant (*refer to ASX announcements 7 August and 30 August 2018*).

Arafura process engineers closely monitored several important operational performance parameters over the duration of the pilot, including solid-liquid separation, reagent dosing, temperature profiles and residence time across each unit operation of the process.

Rare earth hydroxide precipitate produced from the pilot will feed the Company's Phase 6 (Rare Earth Dissolution and Evaporation) pilot plant. This is scheduled to commence at ALS within a week.

- ENDS -

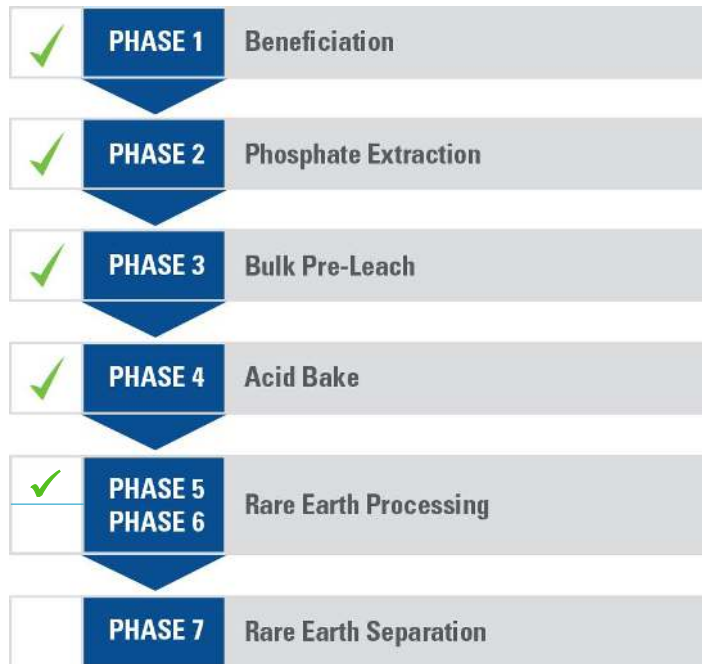
**For further information contact:**

Gavin Lockyer  
Managing Director  
T: +61 8 6210 7666

**Media enquiries:**

Luke Forrestal  
Media & Capital Partners  
M: +61 411 479 144

**Nolans Phase 5 Pilot Plant Complete**



**Nolans Flowsheet Piloting Program**



**Phase 5 Rare Earth Purification and Precipitation Pilot Plant**

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**Refined NdPr-rich Rare Earth Hydroxide Precipitate being removed from filter unit**

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