

## Browns Range Heavy Rare Earths Project – Update – 18 December 17

### ELECTRIC VEHICLES – NOT JUST A LITHIUM STORY

Australian heavy rare earths developer, Northern Minerals Limited (ASX: NTU) (**the Company**) is pleased to provide a progress update on the Browns Range Pilot Plant Project, under construction in the East Kimberley region of WA, including the following achievements:

- **First steel in the process plant has been erected**
- **95% of the second shipment of equipment and modules has been delivered to Browns Range site**
- **Third and final main shipment arrived at Darwin Port on 16<sup>th</sup> of December and has been unloaded**
- **Concrete progressing well with over 1,000m<sup>3</sup> now poured**
- **Supplier of the Year Winner was a three-way tie**



First steel going up at the tailings thickener

## ASX ANNOUNCEMENT

Primero Group is nearing completion of the concrete works in the beneficiation plant area and are making good progress with concrete works in the hydrometallurgical plant area, with the milestone of 1,000m<sup>3</sup> poured on site. This represents over 67% concrete works complete.



**Aerial View of the Pilot Plant, ROM pad and ore stockpiles**



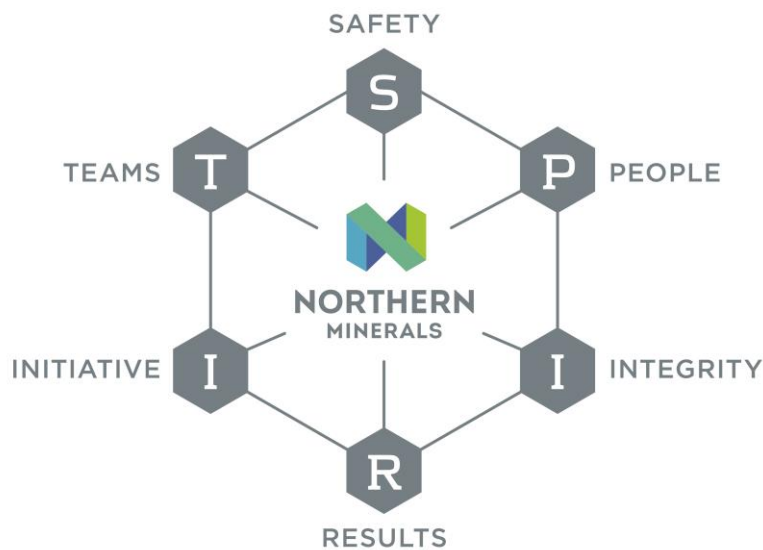
**Crushing plant**

## ASX ANNOUNCEMENT

Delivery of the second main shipment of equipment and modular components to Browns Range has commenced with over 95% of the shipment already delivered to site.

The third main shipment, consisting of 33% of the total modular process plant and equipment arrived at the Darwin Port on 16 December and will be delivered to Browns Range over the coming weeks.

The annual SPIRIT Awards were held on 8 December to recognise the outstanding performance by company employees revolving around the company's values of SPIRIT.



The annual Supplier of the Year Award was held on the 13<sup>th</sup> of December and as it was impossible to select a single winner, this year it is a three-way tie going to:

- MACA Mining and Civil
- Goldfields Electrical Engineering
- Appeal Catering who are a two-time winner of this award

George Bauk, Managing Director and CEO, presented at a symposium for emerging technologies and new suppliers of critical materials in the global supply chain for electric vehicles in New York. Feedback included that a combination of heavy rare earths can be used as a substitute for scandium. This is planned to be investigated in the future as a way of extracting further value from the Browns Range product suite.

**For further information:**

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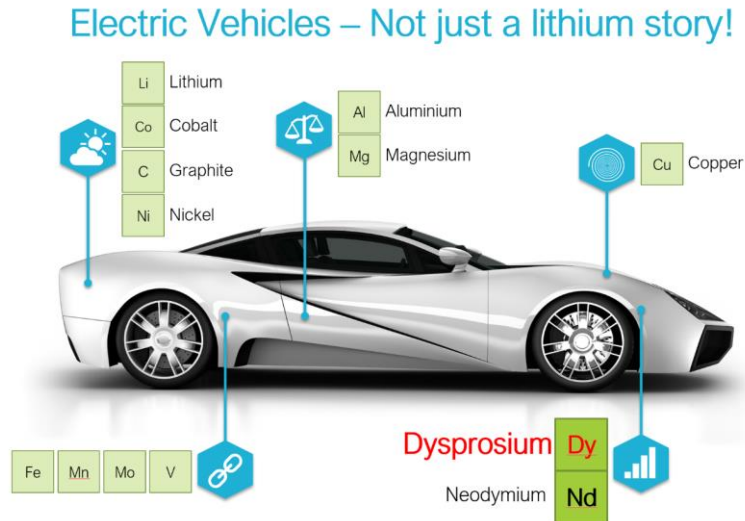
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## ASX ANNOUNCEMENT

### About Northern Minerals:



Northern Minerals Limited (ASX: NTU; Northern Minerals or the Company) is constructing the Browns Range Heavy Rare Earth Pilot Plant Project in northern Western Australia.

Through the development of its flagship project, the Browns Range Project (the Project), Northern Minerals aims to be the first significant world producer of dysprosium outside of China.

The Project is 100% owned by Northern Minerals and has several deposits and prospects containing high value dysprosium and other HREs, hosted in xenotime mineralisation.

Dysprosium is an essential ingredient in the production of DyNdFeB (dysprosium neodymium iron-boron) magnets used in clean energy and high technology solutions.

The three-year R&D pilot plant project will commence first production of heavy rare earth carbonate in Q3 2018. The pilot plant development provides the opportunity to gain production experience, surety of supply for our offtake partner and assess the economic and technical feasibility of the larger full-scale development.

For more information: [northernminerals.com.au](http://northernminerals.com.au).



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