

## Browns Range Heavy Rare Earths Project - Update #10 – 4-12-17

### ELECTRIC VEHICLES – NOT JUST A LITHIUM STORY

Northern Minerals Managing Director, George Bauk 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:

- **Mining is complete and a total of 205,000<sup>1</sup> tonnes was mined against an original plan of 180,000 tonnes.**
- **First shipment of process pilot plant modules and equipment from Sinosteel MECC has been delivered to site.**
- **Second shipment has been unloaded at the Port of Darwin. The first two shipments constitute over 65% of the pilot plant delivered.**
- **Third shipment is being consolidated in Shanghai and is due to leave around 8 December. These three shipments combine for over 95% of the pilot plant delivered.**

MACA Mining has completed mining at Browns Range on time, on budget and delivered extra tonnes to the Run of Mine (ROM) Pad. 205,000<sup>1</sup> tonnes were delivered to the ROM Pad against an original budget of 180,000 tonnes. Congratulations to the MACA Mining team and the NTU Mining Team in delivering a quality result with no injuries.



Photo taken after the ore truck exited the Gambit West pit for the final time

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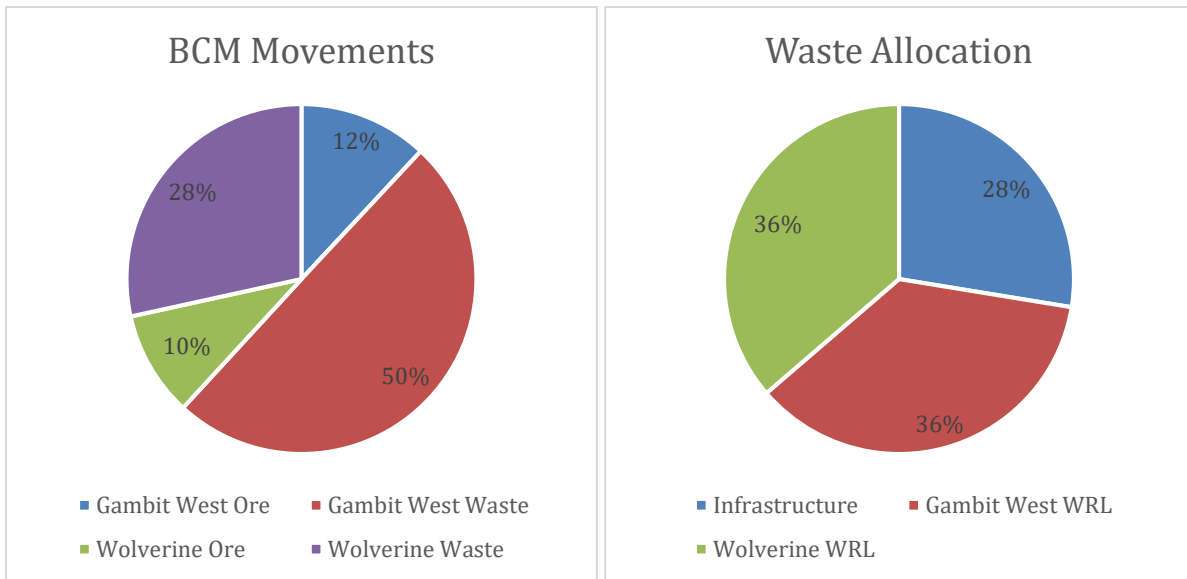
<sup>1</sup> Subject to final survey and physicals reconciliation

## PROJECT UPDATE #10

A total of 385,000 bank cubic metres (BCM) of material was mined with 238,000 BCM mined from Gambit West and 147,000 BCM mined from Wolverine.

Ore mined from Wolverine totalled 37,500 BCM at a strip ratio of 2.9:1, with Gambit West ore mined totalling 46,000 BCM at a strip ratio of 4.2:1. The overall strip ratio was 3.6:1 versus the initial planned strip ratio of 5:1.

Waste mined from Gambit West was used for construction of infrastructure including the ROM pad base and the embankment walls on the tailings storage facility (TSF), with the balance of the waste reporting to the waste rock landforms (WRL) at Wolverine and Gambit West.



Gambit West



Wolverine

## PROJECT UPDATE #10

Primero Group are well advanced with the concrete works in the Beneficiation plant area and are making good progress with concrete works in the Hydromet plant area.



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

The first shipment of equipment and modular components from Sinosteel MECC has been delivered to Browns Range. This shipment, representing 25% of the process pilot plant modules and equipment, is the first of three main shipments.

The second shipment, representing 40% of equipment and modules, has been discharged at the Port of Darwin and will be delivered to Browns Range over the coming weeks.

The third main shipment, consisting of 30% of the modular process plant and equipment is being consolidated in Shanghai for targeted departure around 8 December.

PROJECT UPDATE #10



Third shipment being consolidated in Shanghai – Mill Shell



Second shipment being unloaded in Darwin – Kiln Base

## PROJECT UPDATE #10



**Annual Christmas BBQ at Ringer Soak**

The Annual Christmas BBQ was held in Ringer Soak on the 1<sup>st</sup> of December, to celebrate the end of the year with the local community. Northern Minerals provided a BBQ for all the people in Ringer Soak with some colouring books and sporting equipment provided to the children.



**Smoking Ceremony at Browns Range**

On 3 December, Jaru elders from the Ringer Soak community performed a welcome to country and smoking ceremony at Browns Range for all personnel on site. The following activities are planned for the next month:

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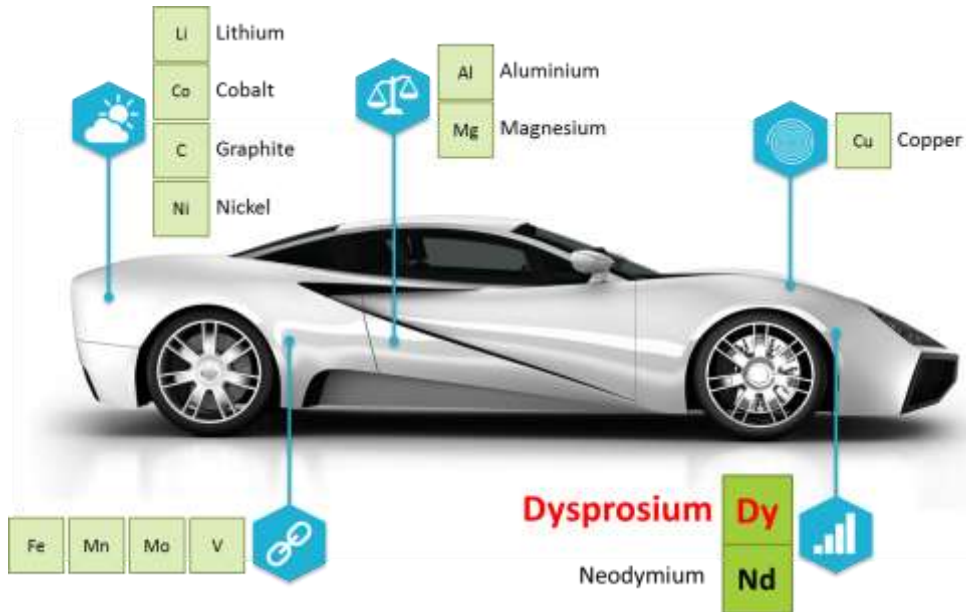
- Delivery of the second shipment to Browns Range from Darwin;
- Delivery of the third shipment to Darwin and commencement of transport to site;
- Continuation of plant installation by Primero Group at site; and
- Marketing by the MD, George Bauk, in the United States.

**Yours sincerely**

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