

Disclaimer



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Compliance Statement

The information in this presentation that relates to the Mineral Resource Estimates of the Wolverine deposit is extracted from the report entitled "Increased Mineral Resource delivers more good news" dated 23 February 2015 and is available to view on the Company's website (www.northernminerals.com.au). The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. 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 market announcement.

The information in the announcement that relates to the Mineral Resource Estimates of the Cyclops and Banshee deposits is extracted from the report entitled "Further Increase in Brown Range Mineral Resource" dated 15 October 2014 and is available to view on the Company's website (www.northernminerals.com.au). The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. 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 market announcement.

The information in the announcement that relates to the Mineral Resource Estimates of the Gambit, Gambit West and Area 5 deposits is extracted from the report entitled "Wolverine Total Resource Doubled in a Major Upgrade of Browns Range HRE Mineral Resource Estimate" dated 26 February 2014 and is available to view on the Company's website (www.northernminerals.com.au). The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. 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 market announcement.

The information in the announcement that relates to Ore Reserves is extracted from the report entitled Increased Ore Reserve for Browns Range created on 2 March 2015 and is available to view on the Company's website (northernminerals.com.au). The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. 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 market announcement.

The information in this report that relates to Exploration Results or Exploration Targets is based on information compiled by Mr Robin Wilson, a full-time employee of Northern Minerals, a Competent Person, who is a member of the Australasian Institute of Mining and Metallurgy. Robin Wilson 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 Wilson consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The potential quantity and grade of the Exploration Target is conceptual in nature. There has been insufficient exploration completed in the areas of the Exploration Target and it is uncertain if further exploration will result in the estimation of a Mineral Resource.

The information in the announcement that relates to production targets is extracted from the report entitled "DFS positions Browns Range Project as next dysprosium supplier" dated 2 March 2015 and is available to view on the Company's website (northernminerals.com.au). The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the production targets in the relevant market announcement continue to apply and have not materially changed.

 $\mathsf{TREO} = \mathsf{Total} \; \mathsf{Rare} \; \mathsf{Earth} \; \mathsf{Oxides} \; - \; \mathsf{La}_2\mathsf{O}_3, \; \mathsf{CeO}_2, \; \mathsf{Pr}_6\mathsf{O}_{11}, \; \mathsf{Nd}_2\mathsf{O}_3, \; \mathsf{Sm}_2\mathsf{O}_3, \; \mathsf{Eu}_2\mathsf{O}_3, \; \mathsf{Gd}_2\mathsf{O}_3, \; \mathsf{Tb}_4\mathsf{O}_7, \; \mathsf{Dy}_2\mathsf{O}_3, \; \mathsf{Ho}_2\mathsf{O}_3, \; \mathsf{Tm}_2\mathsf{O}_3, \; \mathsf{Tm}_2\mathsf{O}_3, \; \mathsf{Lu}_2\mathsf{O}_3, \; \mathsf{Yb}_2\mathsf{O}_3, \; \mathsf{Lu}_2\mathsf{O}_3, \; \mathsf{Yb}_2\mathsf{O}_3, \; \mathsf{Lu}_2\mathsf{O}_3, \; \mathsf{Vb}_2\mathsf{O}_3, \; \mathsf{Lu}_2\mathsf{O}_3, \; \mathsf{Vb}_2\mathsf{O}_3, \; \mathsf{Lu}_2\mathsf{O}_3, \; \mathsf{Vb}_2\mathsf{O}_3, \; \mathsf{Lu}_2\mathsf{O}_3, \; \mathsf{Ub}_2\mathsf{O}_3, \;$

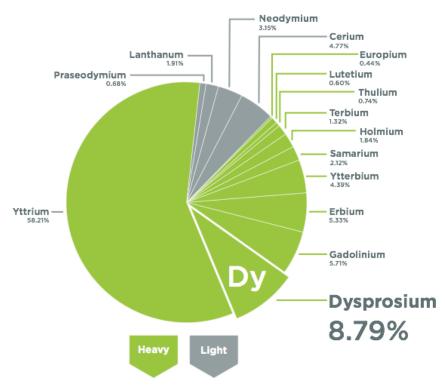
HREO = Heavy Rare Earth Oxides - Total of Sm₂O₃, Eu₂O₃, Gd₂O₃, Tb₄O₇, Dy₂O₃, Ho₂O₃, Er₂O₃, Tm₂O₃, Yb₂O₃, Lu₂O₃, Y₂O₃





Northern Minerals Browns Range

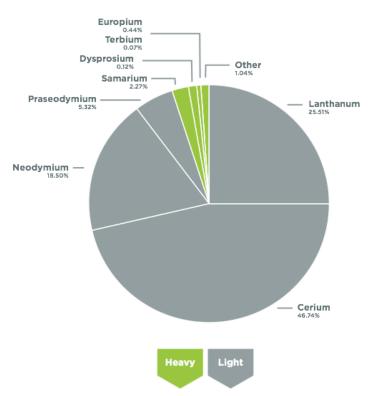
Rare earth distribution 1



¹ Based on Wolverine Mineral Resource

Lynas Mt Weld

Rare earth oxide composition ²



² Source: Lynas Corporation website







Browns Range underway





Heavy rare earths crucial to growth of electric vehicle sector

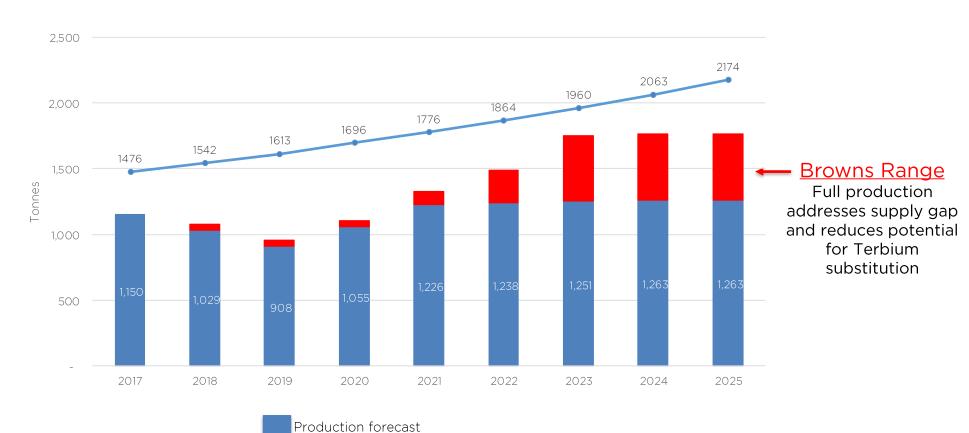


- NdDyFeB permanent magnets used by major electric vehicle (EV) manufacturers require Dysprosium and Terbium as key additives for high performance
- Changing policy settings by European governments and future development plans by global carmakers have resulted in demand for EVs reaching an inflection point
- Permanent magnets account for 25% of rare earth demand in tonnes and 80% in value and the increasing rate of market acceptance has translated into significantly higher prices for heavy rare earth elements specifically
- UBS has increased forecasts on EV production as a consequence of earlier than expected EV cost parity, with EV sales expected to grow from 1.2 million in 2015 to >20 million by 2020





Browns Range supply reduces substitution risk



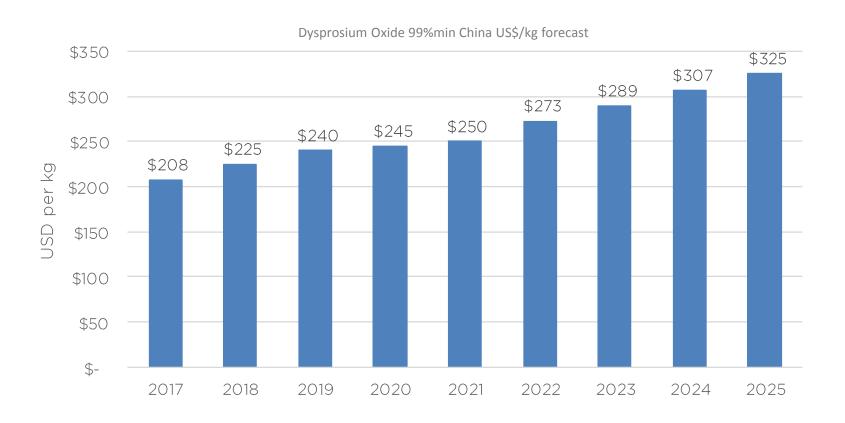
Browns Range forecast*

Forecast demand





Dysprosium demand driving price trend



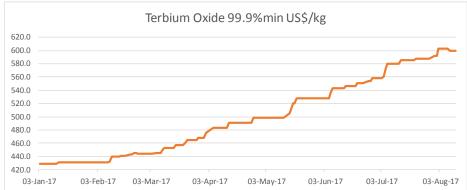




HRE - sustainable pricing









Powering Technology.

Increased demand from new EV sales coupled with crackdown on illegal mining in China is positively impacting prices



Three stage approach to full scale production

Stage 1 TEST PILOT PLANT

Stage 2 REFINE PROJECT

Stage 3 BUILD FULL SCALE

- 10% of full scale capacity
- Production July 2018
- Develop, mining, processing & offtake experience
- 573tpa contained TREO
- 72k tpa throughput beneficiation plant

- Reduce mining cost modify mining method
- Boost production increase head grade
- Develop premium productyttrium rejection
- Increase reserve drilling

- 585,000tpa operation
- 1,500,000kg TREO in a premium product
- Significant dysprosium supplier
- Initial 11 year life with significant upside

measured . sustainable . achievable







Pilot Plant financing





Sales Agreement

Processing Plant

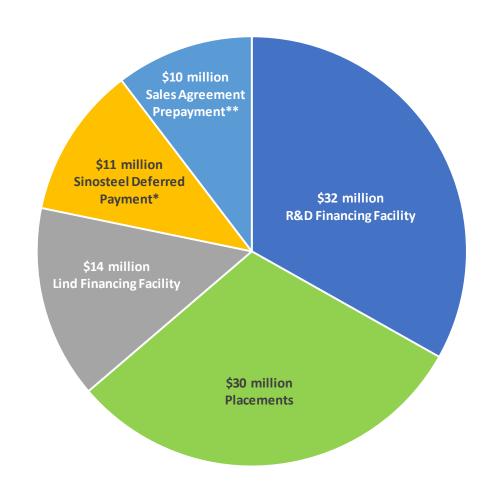
Open Pit Mining

Office & Camp

Tailings Dam

Schedule

Feasibility



- * Sinosteel MECC has agreed to defer 20% of its contract amount for 24 months, with the ability to convert into Northern Minerals' shares
- ** JFMAG has agreed to prepay \$10m, with the ability to convert into Northern Minerals' shares

Sales agreements secured





Direct shipping

route from Wyndham or

Darwin to

Lianyungang, China

Financing

Sales Agreement

Processing Plant

Open Pit Mining

Office & Camp

Tailings Dam

Schedule

Feasibility

100% of Browns Range Pilot Plant production to be purchased by Lianyugang Zeyu New Materials Sales Co Ltd (JFMAG), a 51% owned subsidiary of Guangdong Rare Earths Group.

Terms based off CIF Incoterms 2010 with pricing referenced from a 2-month average of quoted prices on Asian Metals and Beijing Ruidow Information Technology.

• Includes A\$10 million pre-payment, receivable in early 2018 and 40 million unlisted options at \$0.25 exercise price.

Representative to join Northern Minerals' Board upon receipt of funds





Pilot Plant Processing Plant MINERALS



Financing

Sales Agreement



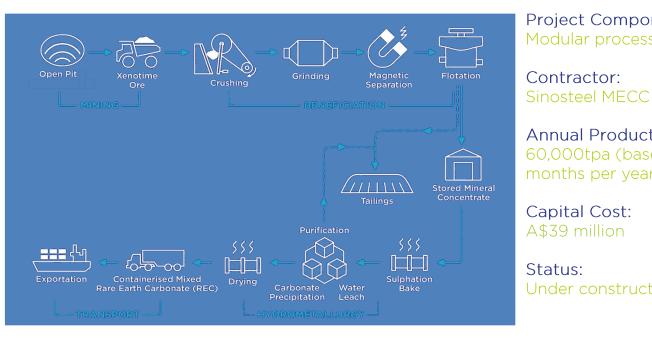
Open Pit Mining

Office & Camp

Tailings Dam

Schedule

Feasibility



Project Component: Modular processing plant

Contractor:

Annual Production:

60,000tpa (based on 10 operating months per year)

Capital Cost: A\$39 million

Status:

Under construction in China

Pilot Plant Processing Plant



Financing

Sales Agreement

Processing Plant

Open Pit Mining

Office & Camp

Tailings Dam

Schedule

Feasibility







Fabrication works underway in China

Open Pit Mining



Financing

Sales Agreement

Processing Plant

Open Pit Mining

Office & Camp

Tailings Dam

Schedule

Feasibility



Project Component: Scale:

Open Pit Mining 180,000t ore mined

Contractor: Total Cost: MACA Limited A\$6 million

Status:

Mining commenced June 2017 Entire mining project to be completed in November 2017



Office and camp infrastructure



Financing

Sales Agreement

Processing Plant

Open Pit Mining



Tailings Dam

Schedule

Feasibility



Details:

Camp increased to 49 personnel Additional temporary accommodation to be installed New office and workshop facilities

Status:

Camp extension installed and small modifications to complete

Capital Cost:

A\$1 million





Training-to-Work Facility



Financing

Sales Agreement

Processing Plant

Open Pit Mining

Office & Camp

Tailings Dam

Schedule

Feasibility



- Northern Minerals has partnered with The Wunan Foundation for the establishment of an \$8.1 million indigenous training-to-work facility at Browns Range.
- The Federal Government, under the Building Better Regions Fund (BBRF) has provided funding of \$4.8 million towards the programme.
- Construction of the facility will commence soon.

Tailings dam construction



Financing

Sales Agreement

Processing Plant

Open Pit Mining

Office & Camp



Schedule

Feasibility



Details:

Construction of tailings storage facility

Status:

Commenced June 2017 using waste material from open pit mining

Contractor:

MACA Limited

Capital Cost:

A\$1.2 million



Project development schedule

Financing

Sales Agreement

Processing Plant

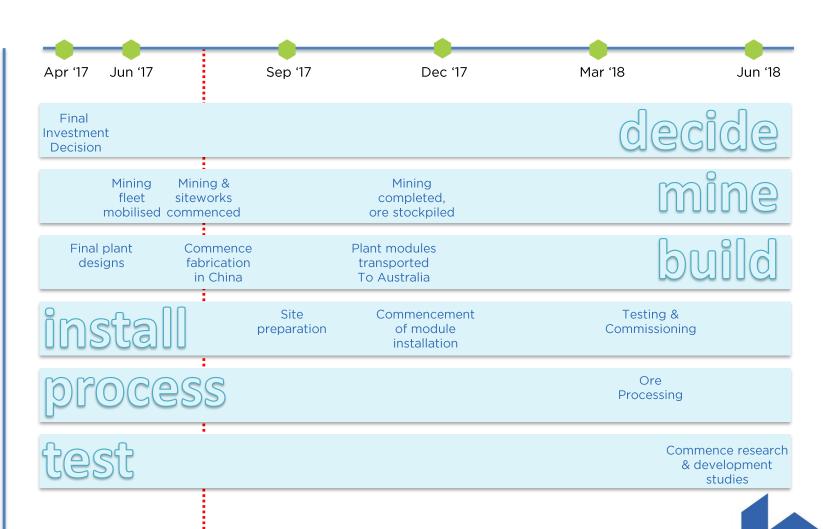
Open Pit Mining

Office & Camp

Tailings Dam



Feasibility



Pilot Plant feasibility



Financing

Sales Agreement

Processing Plant

Open Pit Mining

Office & Camp

Tailings Dam

Schedule

Feasibility

- The three-year pilot project has been designed to assess the technical and economic feasibility of the proposed full-scale development.
- Key aspects of assessment during the Pilot Plant phase:
 - Mining and ore variability;
 - Flowsheet and recovery optimisation;
 - Water and environmental considerations;
 - Transport and shipping logistics;
 - End user product specifications; and
 - Long term dysprosium market dynamics.
- These determining factors will be incorporated into an updated feasibility study for the proposed full-scale operation.



Key Personnel and Partners













Eben Van Rooyen - Project Manager Louis de Klerk - R&D Manager













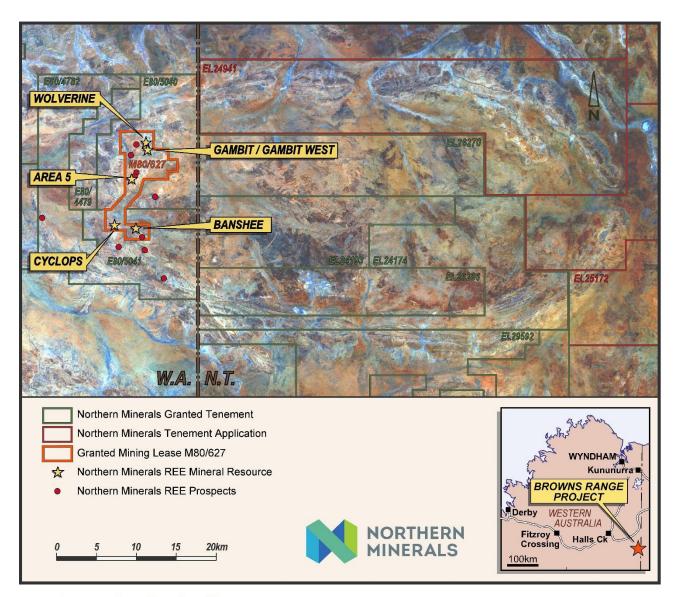


Robin Wilsor



Blue Sky potential





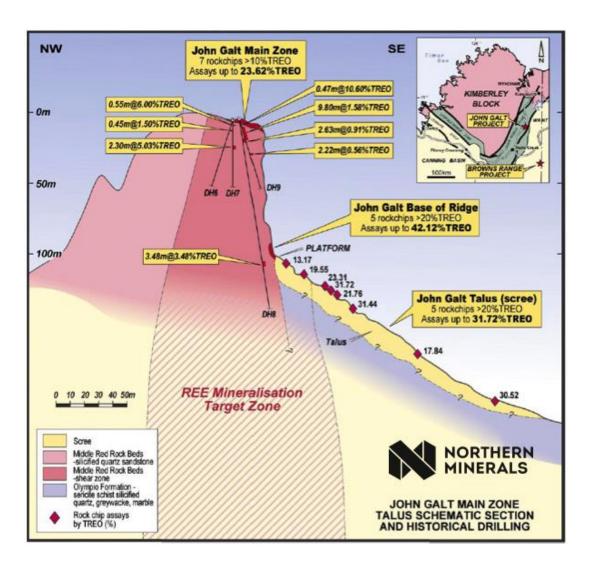
The Browns Range dome is a massive geological feature covering 1,500km² and stretching 60km x 30km most of which hasn't been effectively explored

- JORC Resource supporting an 11 year full scale operation
- Conservative exploration target to add additional 9 years of JORC Resources
- 170 defined targets yet to be drilled



Beyond Browns Range: John Galt MINDERALS

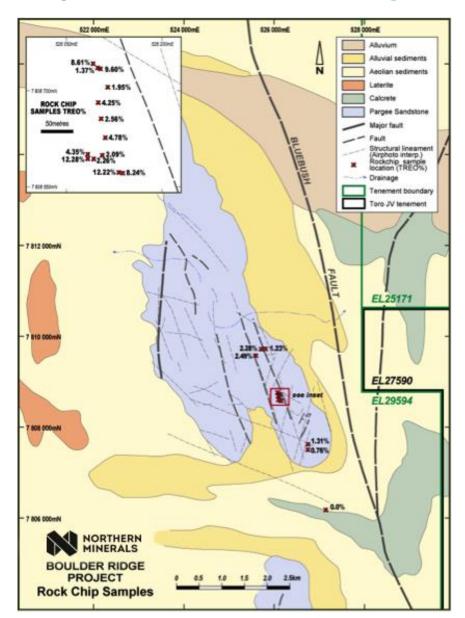




- Rock chip samples up to 42% TREO with approximately 95% Heavy REO
- Preliminary metallurgical tests indicate excellent recovery rates (>90%)
- Potential for concentrate grades >40%
- High grade mineralisation in talus (scree) material
- Hard-rock source of scree is the primary target

Beyond Browns Range: Boulder Ridge





- Rock chip samples from the Boulder Ridge project confirm high-grade Heavy Rare Earths (HRE)
- Best results exceed 12% TREO, including up to 1.15% Dysprosium, with a dominance of HRE - up to 99%.
- Reinforces significant growth potential in Browns Range and Tanami regions.



Off and racing in 2017



- Innovative multi-faceted project financing secured:
 - \$32m R&D financing facility
 - \$30m Placements at premium
 - \$14m Lind financing facility signed
 - \$11m Sinosteel MECC deferred payments
 - \$10m JFMAG sales agreement prepayment
- Design completed
- Pilot Plant Project approved by Board
- Mining and bulk earthworks commenced
- Fabrication under way in China and procurement orders placed



Corporate Overview





Major shareholders	18 August 2017
ACIIG	26.3%
Huatai Mining	21.5%
Jien Mining	3.5%
Board & Management	2.4%
Remaining Top 20	21.3%
Other	25.0%

Market capitalisation \$98M

(at 18 August 2017 @ \$0.13)

Ordinary Shares	754M
Options and Performance Rights	72M
Cash (30 June 2017)	\$8.5M

Northern Minerals Limited Share Price Performance







Northern Minerals: Building an Australian greenfields discovery

Appendices





Browns Range - A Seven Year Journey

NTU shifts focus to HRE John Galt acquisition Rock Chip samples First benefication results Discovery	Maiden drilling campaign at Browns Range	First hydro- metallurgy results Maiden JORC Resource released	Discovery of Boulder Ridge Upgraded JORC Resource \$26 million capital raised	Maiden JORC Ore Reserve EPA approval granted Mining Licence granted Native Title agreement Pre-Feasilbility Study finished JORC Resource doubled	Definitive Feasibility Study released	Divestment of non-core HRE assets Commitment to the new three stage Business Plan Pilot Plant Project approved for Browns Range	Financial Investment Decision Mining starts at Browns Range \$19.5 million capital raised Developme	nt
,	•		• • • • • • • • • • • • • • • • • • • •			-	•	.10
2010	2011	2012	2013	2014	2015	2016	2017	





Global EV growth drivers



Battery technology eliminating range technology







Regulatory support for lower emission vehicles



Consumer demand reaches inflection











EVs approaching price parity with combustion vehicles





EV acceptance reaches inflection point in 2017



Forbes

Shift to Electric Vehicle Demand Accelerates

July 14 2017







Chinese carmakers to dominate EV production





















































Mineral Resources



Deposit	Category	Mt	TREO	Dy ₂ O ₃	Y ₂ O ₃	Tb₄O ₇	HREO	TREO	
			%	Kg/t	Kg/t	Kg/t	%	Kg	
Wolverine	Indicated	2.99	0.83	0.73	4.86	O.11	89	24,952,000	
	Inferred	1.97	0.89	0.76	5.13	O.11	88	17,609,000	
	Total ¹	4.97	0.86	0.74	4.97	0.11	89	42,560,000	
Gambit West	Indicated	0.27	1.26	1.07	7.06	0.14	90	3,424,000	
	Inferred	0.12	0.64	0.54	3.67	0.07	85	753,000	
	Total ¹	0.39	1.07	0.91	6.04	0.12	89	4,177,000	
Gambit	Indicated	0.05	1.06	0.92	6.62	0.12	97	533,000	
	Inferred	0.06	1.2	1.01	6.8	0.15	95	671,000	
	Total ¹	O.11	1.13	0.97	6.72	0.13	96	1,204,000	
Area 5	Indicated	1.38	0.29	0.18	1.27	0.03	69	3,953,000	
	Inferred	0.14	0.27	0.17	1.17	0.03	70	394,000	
	Total ¹	1.52	0.29	0.18	1.26	0.03	69	4,347,000	
Cyclops	Indicated	120	-	2	-	(47)	-	=	
	Inferred	0.33	0.27	0.18	1.24	0.03	70	891,000	
	Total ¹	0.33	0.27	0.18	1.24	0.03	70	891,000	
Banshee	Indicated	-	-	-	11-1	-	0=	-	
	Inferred	1.66	0.21	0.16	1.17	0.02	87	3,484,000	
	Total ¹	1.66	0.21	0.16	1.17	0.02	87	3,484,000	
Total ¹	Indicated	4.69	0.70	0.59	3.95	0.09	87	32,862,000	
	Inferred	4.28	0.56	0.46	3.15	0.07	87	23,802,000	
	Total ¹	8.98	0.63	0.53	3.56	0.08	87	56,663,000	

^{1 –} Rounding may cause some computational discrepancies (TREO (metal) tonnes estimated from Mt x TREO%)

Ore Reserves



			TREO		Dy ₂ O ₃		Tb₄O ₇		Y ₂ O ₃	
Deposit	Classification	Ore Tonnes	kg/t	kg Contained	kg/t	kg Contained	kg/t	kg Contained	kg/t	kg Contained
OPEN PIT										
Wolverine	Probable	833,000	6.15	5,124,000	0.55	460,000	0.08	66,000	3.59	2,989,000
Gambit West	Probable	219,000	10.10	2,212,000	0.83	182,000	O.11	25,000	5.52	1,209,000
Gambit	Probable	37,000	8.05	298,000	0.68	25,000	0.09	3,000	4.74	176,000
Area 5	Probable	467,000	2.24	1,048,000	0.14	65,000	0.02	10,000	0.99	463,000
UNDERGROUN	D									
Wolverine	Probable	2,104,000	8.00	16,833,000	0.70	1,483,000	0.10	221,000	4.71	9,908,000
Gambit West	Probable	90,000	9.54	860,000	0.88	79,000	O.11	10,000	5.78	521,000
RESERVE										
Total	Probable ¹	3,750,000	7.03	26,375,000	0.61	2,294,000	0.09	335,000	4.07	15,266,000

¹ Rounding may cause some computational discrepancies

Pilot plant: targeted production

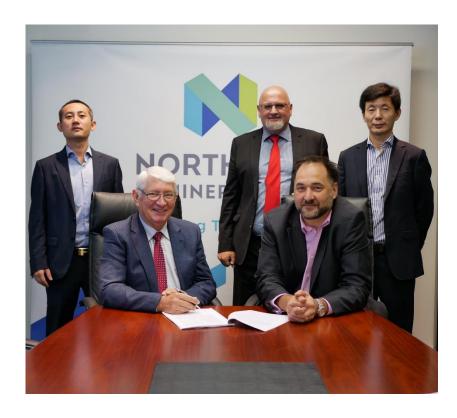
- Mixed RE carbonate (REC) produced
- Product specification available for REC
- REC samples validated by several downstream separators
- REC suitable for solvent extraction separation
- Low thorium and uranium levels

REO contained in mixed RE carbonate	Annual production (000s kgs)
Lanthanum	5.8
Cerium	15.2
Praseodymium	2.8
Neodymium	10.6
Samarium	11.4
Europium	2.4
Gadolinium	34.8
Terbium	6.7
Dysprosium	49.4
Holmium	13.5
Erbium	39.3
Thulium	5.6
Ytterbium	33.1
Lutetium	4.5
Yttrium	337.6
Total TREO produced	573

Figures may not add due to rounding TREO = Total Rare Earth Oxides- Total of Dy_2O_3 , La_2O_3 , CeO_2 , Pr_6O_{11} , Nd_2O_3 , Sm_2O_3 , Eu_2O_3 , Gd_2O_3 , Tb_4O_7 , Ho_2O_3 , Er_2O_3 , Tm_2O_3 , Yb_2O_3 , Lu_2O_3 , Y_2O_3

NTU Board





Colin McCavana - Non-executive Chairman

Mr McCavana has more than 35 years of management experience worldwide in the earthworks, construction and mining industries.

George Bauk - Managing Director / CEO

George is an experienced executive, with over 25 years' experience in the resources industry. Prior to Northern Minerals, George held global operational and corporate roles with WMC Resources, Arafura Resources and Indago Resources.

Adrian Griffin - Non-executive Director

An Australian trained mining professional with exposure to metal mining and processing throughout the world, Mr Griffin has been involved in the development of extraction technology for platinum group metals and agricultural commodities.

Nan Yang - Non-executive Director

Mr Yang is an Australian mining engineer with more than 10 years' experience in mine planning, design, and mergers and acquisitions.

Yanchung Wang - Non-executive Director (not in photo)

Ms Wang acts as a strategic investor for a number of Chinese based companies. Ms Wang is Vice Chairman of Conglin Baoyuan International Investment Group and also a Director of Huachen.

Bin Cai - Non-executive Director (alternate)

Bin is the MD of Conglin International Investment Group Pty Ltd based in Brisbane. He has a record of successful strategic investments in emerging Australian resources companies.

Executive Team





Mark Tory
Chief Financial Officer
Mark is a Chartered
Accountant with 25 years
of professional
experience in the mining
industry and accounting
professions. Prior to
Northern Minerals, Mark
held senior positions at
Crescent Gold Limited,
Anglo American
Exploration and
Homestake Gold (now
Barrick Gold).



Robin Jones Chief Operating Officer Robin has more than 20 years experience in the mining industry, the majority of which has been in the assessment and development of resource projects from scoping study level through to operation. Robin has held senior management positions in PGM, nickel, copper, gold and uranium projects in Australia, RSA and China.



Robin Wilson
Exploration Manager
Robin has held senior
exploration positions in
several exploration and
mining companies,
including Polaris Metals,
Tanganyika Gold, Troy
Resources and CRA
Exploration. In addition,
he spent 5 years working
in oil and gas exploration
for Woodside Energy.



Resident Manager
Chris is a degree qualified mining engineer with almost 30 years' experience predominately in open cut gold and iron ore mining operations through Western Australia. He has extensive mine design, planning, scheduling and management capabilities and is a key addition to our management team.



Eben Van Rooyen
Project Manager
Mr Van Rooyen is a
Project Manager with an
electrical and mechanical
engineering background
with more than 35 years
experience in the mining
industry. Eben has
significant gold industry
experience in brownfields
projects from concept
and feasibility through to
commissioning.



The Northern Minerals SPIRIT



