

Company Presentation

Creating value and contributing to a cleaner earth

20 NOVEMBER 2024





Important Information

NORTHERN MINERALS

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Reporting Requirements for Mineral Resources and Ore Reserves

As an Australian public company with securities listed on the ASX, Northern Minerals is subject to Australian disclosure requirements and standards, including the requirements of the Corporations Act and the ASX Listing Rules. Investors should note that it is a requirement of the ASX Listing Rules that the reporting of Mineral Resources and Ore Reserves in Australia is in accordance with the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code) and that Northern Minerals' Mineral Resource and Ore Reserve estimates and reporting comply with the JORC Code.

Compliance Statement

Competent Person Statement

The information in this document that relates to Mineral Resources and Ore Reserves has been extracted from the Company's ASX announcement titled "Updated Wolverine Mineral Resource estimate at Browns Range" dated 10 October 2022 which is available to view at www.asx.com.au under the code "NTU" (the original releases).

Northern Minerals confirms that it is not aware of any new information or data that materially affects the information included in the original releases and that all material assumptions and technical parameters underpinning the estimates in the original releases continue to apply and have not materially changed.

Northern Minerals confirms that the form and context in which the Competent Person findings are presented have not been materially modified from the original releases.

References to "TREO" and "HREO" have the following meanings:

TREO = Total Rare Earth Oxides - La2O3, CeO2, Pr6O11, Nd2O3, Sm2O3, Eu2O3, Gd2O3, Tb4O7, Dy2O3, Ho2O3, Er2O3, Tm2O3, Yb2O3, Lu2O3, Y2O3

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

Company Introduction



A HIGH-GRADE HEAVY RARE EARTHS DEPOSIT, EXPANSIVE EXPLORATION POTENTIAL AND AN EXPERIENCED TEAM DRIVING BROWNS RANGE TO OPERATION¹



BROWNS RANGE HEAVY RARE EARTHS (HRE) PROJECT

- Browns Range is the most advanced HRE project globally²
- ▶ Targeting production of c. 25% TREO concentrate rich in dysprosium and terbium
- Recent drilling results at the Wolverine deposit confirm significant high-grade mineralisation that remains open at depth



STRATEGIC PARTNERSHIP WITH ILUKA RESOURCES

Long-term Supply Agreement to provide essential input to onshore processing of rare earth products



>5,600 km² total landholding across WA & NT, highly prospective for rare earths

As at 18 November 2024

4)

\$0.019 Share price³

8,038 million Ordinary shares on issue³

\$160 million Market capitalisation³

20 million Options³

Subject to procuring project funding to enable a Final Investment Decision

Northern Minerals analysis of company filings

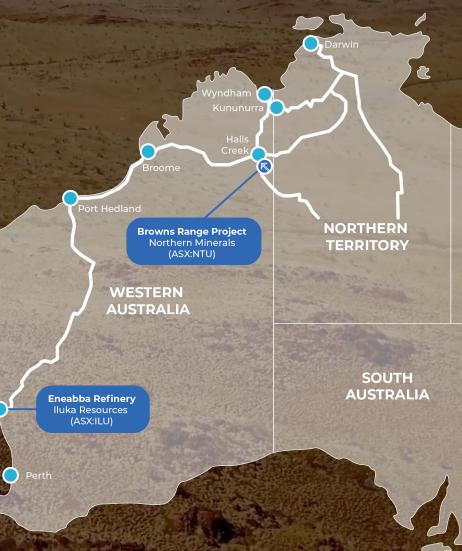
Trading data as at 15 November 2024 (excludes Performance Shares, Iluka Convertible Note, Tranche B Shares and Put/Call Shares)



Browns Range HRE Project

UNDERPINNED BY THE WOLVERINE DEPOSIT, THE HIGHEST KNOWN GRADE DY AND TO DEPOSIT¹

High Value Concentrate	• Mining and processing at site to produce c. 25% TREO concentrate rich in heavy rare earths
Exploration Upside	 Recent drilling results confirm deposit is open at depth²
Processing	 3-year pilot plant (in operations 2018-2021) provided critical data to inform operations
lluka Partnership	 Long-term supply and funding arrangement³ with domestic partner Iluka Resources
Approvals	 All key approvals in place



1) Northern Minerals analysis of company filings

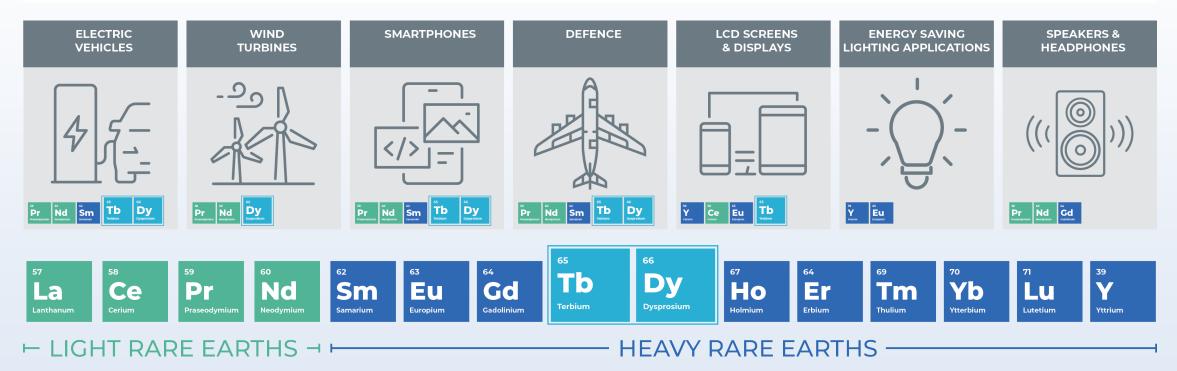
) ASX Announcement 31 July 2024: June 2024 Quarterly Activities Report

 Subject to certain conditions being satisfied including NTU making a positive FID decision in relation to Browns Range and Iluka completing due diligence in respect of NTU's DFS to their satisfaction



Supplying a Sustainable Future

DYSPROSIUM (Dy) AND TERBIUM (Tb) ARE KEY INPUTS TO HIGH TEMPERATURE PERFORMANCE MAGNETS



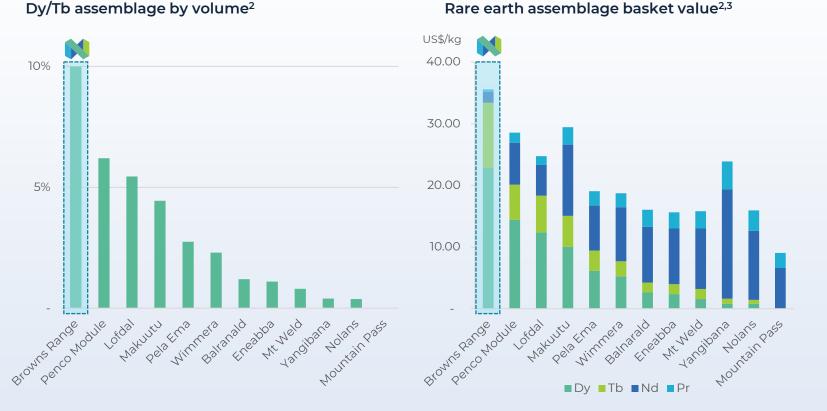
HIGH TEMPERATURE PERFORMANCE MAGNETS ARE CRITICAL COMPONENTS OF ELECTRIC VEHICLES, WIND TURBINES, DEFENCE APPLICATIONS AND BROADER CLEAN ENERGY TECHNOLOGIES



A Heavy Rare Earth Basket

BROWNS RANGE HAS THE POTENTIAL TO BE THE LARGEST SOURCE OF Dy AND TO OUTSIDE OF CHINA Dy/Tb assemblage by volume²

- Browns Range has a rare earths assemblage of 10%¹ Dy and Tb, among the highest of advanced rare earth projects globally
- ~70% of Browns Range concentrate revenue is high value Dy and Tb
- Limited ex-China orebodies with heavy rare earths ratio for magnet making; currently challenging to source HRE ex-China/Myanmar
- HRE-rich concentrate produced at Browns Range will be complementary to typical feedstock high in NdPr



 Based on October 2022 Wolverine JORC compliant Measured Mineral Resource estimate. See ASX announcement titled "Updated Wolverine Mineral Resource estimate at Browns Range" dated 10 October 2022, which is available to view at www.asx.com.au under the code "NTU". See Appendix B of this Presentation for further information.

- 2) Source refer to Appendix A of this Presentation.
- 3) Based on average 2024 YTD individual REO prices.



Diversifying the Global Magnet Value Chain

CHINA DOMINATES THE VALUE CHAIN, OPPORTUNITY TO SUPPLY CRITICAL FEEDSTOCK FOR DOWNSTREAM PROCESSING OF Dy AND Tb IN AUSTRALIA



Concentrate

MINERALS

ILUKA

electronic producers.

progress)



Strong Government Sector Support

NORTHERN MINERALS IS WELL POSITIONED TO ACCESS GOVERNMENT FUNDING

The critical minerals and rare earth industries are perfect examples of sectors that will be crucial to our future...The Government has backed the Browns Range Heavy Rare Earths Project... - Madeline King, Federal Resource Minister April 2024

Australian Government Critical Minerals Strategy 2023-2030¹

Economic and Strategic Incentives to increase domestic production	NAIF: Earmarked \$500M for critical minerals projects Export Finance Australia: \$4B through Critical Minerals Facility ² Critical Minerals Development Program: \$100M early and mid-stage projects				
Development of Processing Facilities	Financial support to boost onshore processing capabilities (\$1.25B loan to Iluka Resources for Eneabba)				
International Partnerships and Investment	\$57.1M to secure strategic and commercial partnerships , enhancing the rare earth supply chain with the recent US-Australia partnership				
Regulatory and Environment Management	\$4B National Reconstruction Fund allocated for value-add in resources renewables/low- emissions technologies				
Research and Development	\$50.5M Australian Critical Minerals Research and Development Hub \$225M Exploring for the Future program				
Future Made in Australia Act, May 2024 ³					
Critical Minerals Production Tax Incentive	10% refundable tax offset for processing costs between 2027 to 2041 if eligible				

1) 2023-2030 Critical Minerals Strategy https://www.industry.gov.au/publications/critical-minerals-strategy-2023-2030

2) Export Finance Australia <u>https://www.exportfinance.gov.au/newsroom/2-billion-critical-minerals-boost-crucial-to-energy-transition/</u>

3) Australian Taxation Office https://www.ato.gov.au/about-ato/new-legislation/in-detail/businesses/hydrogen-production-and-critical-minerals-tax-incentives



Environmental, Social and Governance

ESTABLISHED COMMUNITY ENGAGEMENT, ONGOING ENVIRONMENTAL MONITORING AND MANAGEMENT, PLANNING FOR SUSTAINABLE DEVELOPMENT AND REPORTING



Continuous improvement of sustainability framework to ensure compliance with evolving regulations

Ongoing environmental baseline, monitoring and data collection on-site

Extensive environmental planning and studies completed All site activities undertaken with zero material regulatory noncompliances

Pursuing a hybrid renewable power system for operations









Kundat Djaru community consultation, including education sessions to the primary school and community events Traditional Owner engagement with controlled burns, heritage monitoring and environmental surveys around site

Training to Work program to provide onsite training for local Aboriginal people Regionally significant employment and training opportunities and economic activity in the Kimberley region post FID Business community engagement as members of the East Kimberley Chamber of Commerce & Industry (CCI) and Broome CCI

DFS¹ Update

PRODUCTION OF Dy/Tb-RICH CONCENTRATE INCORPORATING LESSONS LEARNT FROM PILOT PLANT



Conventional open pit mining followed by underground mining using sublevel caving



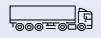
Established flowsheet informed by comprehensive metallurgical testwork and three-year pilot plant operation



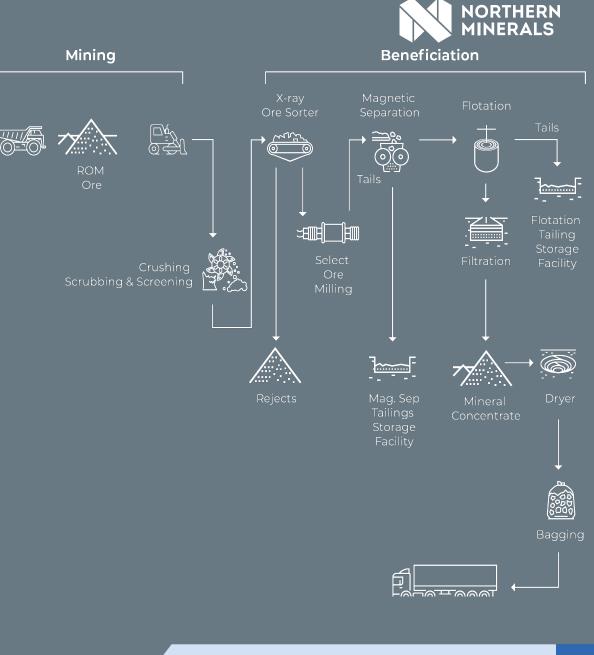
Xenotime ore is significantly concentrated to produce a concentrate of ${\sim}25\%$ TREO



Pilot plant operations established key base operational requirements e.g. camp, roads, airstrip and power, that will be expanded



REO concentrate will be transported to Iluka's Eneabba Refinery on tautliner trucks



 Draft DFS completed, final DFS expected Q1 2025 which will compile the revised Wolverine Mineral Resource estimate, mine design and scheduling, further magnetic separation and flotation testwork results and revised contract pricing



Proposed Funding Pathway

PROGRESSING TOWARDS SECURING AN OPTIMAL FUNDING STRUCTURE

Potential Project Funding Sources

Debt	Equity	Other		
EFA / NAIF ¹	Iluka Resources Strategic Partner ¹	Other Government/ECA sources		
NORDIC Bond	Institutional Equity	Sources		
Potential for commercial banks	Strategic Equity			

Recent Funding Progress

- Discussions underway with NAIF
 and EFA
- Previously fulfilled the strategic assessment phase of NAIF's investment decision process²
- Independent Technical Engineer report for prospective lenders' due diligence under review - critical for engagement with financiers
- Iluka due diligence underway

- I) Subject to certain conditions being satisfied including NTU making a positive FID decision in relation to Browns Range and Iluka completing due diligence in respect of NTU's DFS to their satisfaction
- 2) NTU's confirmation of fulfilment of NAIF's Strategic Assessment Phase criteria was current until 30 June 2024. NTU is seeking to refresh this confirmation in connection with its current financing discussions with NAIF. Neither NAIF nor EFA have made any decision to offer finance nor made any commitment to provide any financing and there is no certainty that an agreement will be reached between the parties



Iluka Resources Partnership

BROWNS RANGE FURTHER STRENGTHENED BY LONG-TERM SUPPLY AND FUNDING ARRANGEMENTS WITH DOMESTIC PARTNER ILUKA RESOURCES

Long-term supply partnership	 Supply of up to 5.5 kt contained TREO in concentrate per year Total of 30.5 kt TREO to be delivered 100% of concentrate to be delivered by NTU and purchased by Iluka (within agreed bands)
Funding commitment	 Cornerstone equity funding post FID¹
Strategic significance	 Browns Range concentrate to be feedstock for Australia first integrated rare earth refinery
Upside value share	 Price received includes fixed price component plus upside price sharing mechanism based on realised price²
Excess production	 Iluka has ROFR on production in excess of maximum annual amount

Indicative illustration of price received by Northern Minerals for TREO contained in concentrate



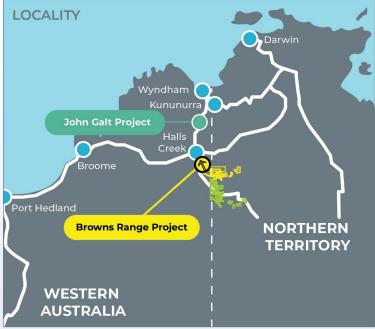
1) Subject to certain conditions being satisfied including NTU making a positive FID decision in relation to Browns Range and Iluka completing due diligence in respect of NTU's DFS to their satisfaction

2) Based on contained REO and with adjustments for impurities

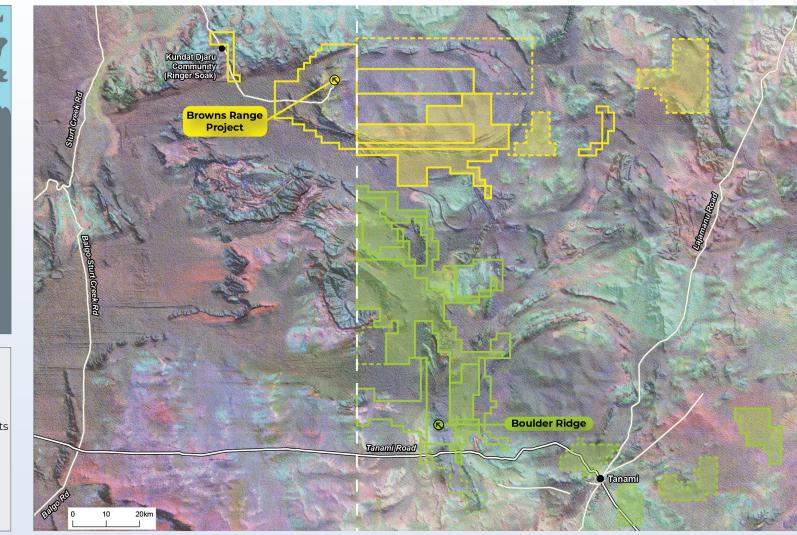
3) Subject to turn down provisions



Significant Tenure Holdings







Wolverine Resource



WOLVERINE UNDERPINS THE INITIAL LIFE OF MINE, WITH CONSIDERABLE OPPORTUNITY TO DEVELOP NEARBY RARE EARTH DEPOSITS

Current Resource Estimate

JORC-compliant Mineral Resource estimate ¹									
	Ore	TREO ²	Dy	Tb	TREO ²				
	Mt	%	kg/t	kg/t	t				
Wolverine	MRE								
Measured	0.14	0.7	0.61	0.09	986				
Indicated	3.24	0.95	0.83	0.12	30,751				
Inferred	3.05	0.98	0.84	0.13	29,756				
Total	6.44	0.96	0.83	0.12	61,492				
Total Browns Range MRE (including nearby deposits)									
Measured	0.14	0.7	0.61	0.09	986				
Indicated	4.9	0.78	0.67	0.1	38,300				
Inferred	5.76	0.73	0.62	0.09	42,166				
Total	10.81	0.76	0.64	0.09	81,450				

Wolverine Deposit Expansion



1) Mineral Resource based on the Company's ASX announcement titled "Updated Wolverine Mineral Resource estimate at Browns Range" dated 10 October 2022, which is available to view at www.asx.com.au under the code "NTU". See Appendix B of this Presentation for further information.

2) TREO includes Yttrium. See Appendix B for full Mineral Resource estimate.

3) Northern Minerals initial JORC compliant resource estimate, 21 December 2012

4) Mineral Resource update – Post trial mining operations, 28 September 2018

Company Highlights

UNIQUELY PLACED TO BECOME A SIGNIFICANT SUPPLIER OF HEAVY RARE EARTHS ALONGSIDE AN EXTENSIVE EXPLORATION PORTFOLIO





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Appendix A: Source Documents

PEER COMPARISON REFERENCE DETAILS

Project	Company	Development Stage	Category	TREO Grade	Dy/Tb:TREO ratio	Source
Browns Range	Northern Minerals Ltd (ASX:NTU)	Feasibility Study	Measured and Indicated	0.76%	10.01%	10 October 2022: ASX Announcement – "Updated Wolverine Mineral Resource estimate at Browns Range"
Penco Module	Aclara Resources Inc (TSX:ARA)	Feasibility Study	Measured and Indicated	0.23%	6.20%	15 September 2021: NI 43-101 Technical Report – Preliminary Economic Assessment for Penco Module Project
Lofdal	Namibia Critical Minerals Inc (TSXV:NMI)	Feasibility Study	Measured and Indicated	0.16%	5.45%	9 April 2024: NI 43-101 Mineral Resource Estimate
Makuutu	Ionic Rare Earths Ltd (ASX:IXR)	Pre-production	Probable	0.08%	4.44%	20 March 2023: ASX Announcement – "Makuutu Stage 1 DFS confirms technical and financial viability for sustainable, long-life supply of magnet and heavy rare earths, maiden ore reserve estimate"
Pela Ema	Mineração Serra Verde	Production	Proven and Probable	0.15%	2.75%	August 2016 Serra Verde Rare Earth Project Geology Presentation
Wimmera	Iluka Resources (ASX:ILU)	Feasibility Study	Probable	N/A	2.30%	16 May 2023: Corporate Presentation
Balranald	Iluka Resources (ASX:ILU)	Pre-production	Measured and Indicated	N/A	1.20%	16 May 2023: Corporate Presentation
Ineabba	Iluka Resources (ASX:ILU)	Pre-production	N/A	10.00%	1.10%	16 May 2023: Corporate Presentation
At Weld	Lynas Rare Earths (ASX:LYC)	Production	Proven and Probable	8.60%	0.80%	6 August 2018: ASX Announcement – "Lynas announces a 60% increase to Mt Weld Ore Reserves, one of the world's richest sources of Rare Earths"; Iluka Resources 16 May 2023: Corporate Presentation
Yangibana	Hastings Technology Metals (ASX:HAS)	Pre-production	Proven and Probable	0.90%	0.40%	28 November 2022: Corporate Presentation
Volans	Arafura Rare Earths Ltd (ASX:ARU)	Pre-production	Proven and Probable	3.00%	0.38%	7 February 2019: ASX Announcement – "Nolans DFS Delivers Robust Project Economics"
Mountain Pass	MP Materials Corp (NYSE:MP)	Production	Proven and Probable	6.22%	0.00%	28 February 2024: Form 10-K SEC Filing



Appendix B: Mineral Resource

GLOBAL MINERAL RESOURCE ESTIMATE (OCTOBER 2022)^{1,2}

Donosit	Classification	Mt	TREO	Dy ₂ O ₃	Y ₂ O ₃	Tb ₄ O ₇	HREO	TREO
Deposit	Classification	ML	%	kg/t	kg/t	kg/t	%	kg
	Measured	0.14	0.7	0.61	3.99	0.09	88	986,000
Wolverine	Indicated	3.24	0.95	0.83	5.53	0.12	89	30,751,000
	Inferred	3.05	0.98	0.84	5.68	0.13	89	29,756,000
	Total ¹	6.44	0.96	0.83	5.57	0.12	89	61,492,00
o 115	Indicated	0.12	1.8	1.62	10.98	0.22	94	2,107,000
Gambit West	Inferred	0.13	0.51	0.4	2.67	0.05	81	674,000
West	Total ¹	0.25	1.11	0.97	6.56	0.13	91	2,781,000
	Indicated	0.17	0.95	0.83	5.5	0.12	89	1,489,000
Pilot Plant Stockpiles	t Inferred	0.03	0.26	0.2	1.35	0.03	79	89,000
Stockplies	Total ¹	0.2	0.83	0.72	4.8	0.1	88	1,577,000
	Indicated							
Gambit	Inferred	0.21	0.89	0.83	5.62	0.11	96	1,878,000
	Total ¹	0.21	0.89	0.83	5.62	0.11	96	1,878,00
	Indicated	1.38	0.29	0.18	1.27	0.03	69	3,953,000
Area 5	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	4,347,00
	Indicated							
Cyclops	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
	Indicated							
Banshee	Inferred	1.66	0.21	0.16	1.17	0.02	87	3,484,00
	Total ¹	1.66	0.21	0.16	1.17	0.02	87	3,484,00
	Indicated							
Dazzler	Inferred	0.21	2.33	2.17	13.93	0.29	95	5,000,00
	Total ¹	0.21	2.33	2.17	13.93	0.29	95	5,000,00
	Measured	0.14	0.7	0.61	3.99	0.09	88	986,000
	Indicated	4.91	0.78	0.6	3.98	0.09	87	38,300,00
Total ¹	Inferred	5.76	0.73	0.54	3.67	0.08	88	42,166,00
	Total ¹	10.82	0.76	0.57	3.81	0.08	87	81,450,00

BROWNS RANGE HEAVY RARE EARTHS PROJECT OVERVIEW

- The Project is located in the East Kimberley region of Western Australia, approximately 160 km southeast of the town of Halls Creek near the Northern Territory border
- The Wolverine, Gambit West, Gambit and Area 5 deposits are all within the Browns Range Project area and are all located wholly within the granted mining lease M80/627
- The Project is located on the western side of the Browns Range Dome, a
 Paleoproterozoic dome formed by a granitic core intruding the
 Paleoproterozoic Browns Range Metamorphics (meta-arkoses, feldspathic
 metasandstones and schists) and an Archaean orthogneiss and schist unit to
 the south
- The dome and its aureole of metamorphics are surrounded by the Mesoproterozoic Gardiner Sandstone (Birrindudu Group)
- The Jaru Native Title Claim is registered over the project area and Northern Minerals entered into a Co-existence Agreement with the Jaru Traditional Owners in June 2014

1) Rounding may cause some computational discrepancies (TREO (metal) tonnes estimated from Mt x TREO%) TREO = Total Rare Earth Oxides – La₂O₃, CeO₂, Pr₆O₁₁, Nd₂O₃, Sm₂O₃, Eu₂O₃, Gd₂O₃, Tb₄O₇, Dy₂O₃, Ho₂O₃, Er₂O₃, Tm₂O₃, Yb₂O₃, Lu₂O₃, Y₂O₃;

 $\label{eq:HREO} \begin{array}{l} \mathsf{HREO} = \mathsf{Heavy} \ \mathsf{Rare} \ \mathsf{Earth} \ \mathsf{Oxides} - \mathsf{Total} \ \mathsf{of} \ \mathsf{Sm}_2\mathsf{O}_3, \ \mathsf{Eu}_2\mathsf{O}_3, \ \mathsf{Gd}_2\mathsf{O}_3, \ \mathsf{Tb}_4\mathsf{O}_7, \ \mathsf{Dy}_2\mathsf{O}_3, \ \mathsf{Ho}_2\mathsf{O}_3, \ \mathsf{Er}_2\mathsf{O}_3, \ \mathsf{Tm}_2\mathsf{O}_3, \ \mathsf{Yb}_2\mathsf{O}_3, \ \mathsf{Lu}_2\mathsf{O}_3, \ \mathsf{Y}_2\mathsf{O}_3, \ \mathsf{HeeO} \\ \mathsf{HREO} \\ \mathsf{HREO} \\ \mathsf{HREO} \\ \mathsf{HREO} \\ \mathsf{TREO} \\ \mathsf{HREO} \\ \mathsf{HROO} \\ \mathsf{HR$

2) Mineral Resource based on the Company's ASX announcement titled "Updated Wolverine Mineral Resource estimate at Browns Range" dated 10 October 2022, which is available to view at www.asx.com.au under the code "NTU".



Dy/Tb Pricing

DEMAND FUNDAMENTALS SUPPORT EXPECTATIONS OF INCREASE IN Dy/Tb PRICES IN THE LONG TERM

Prices rebounding in the last 4 months (Dy +10% and Tb +20% since July low)

Sustained restriction on HRE feedstock imports from Myanmar¹ and continued tightening of rare earth production quotas in China² - supply remains constrained

Current price downturn a result of post-pandemic overproduction in 2023 as China increased production quotas and concentrate imports from Myanmar

Long term fundamentals remain robust with demand expected to continue to grow as the global energy transition accelerates

Dy and Tb oxide historical prices⁴



Board and Management



FOCUSSED ON EXECUTING FID AND DEVELOPMENT STRATEGY



ADAM HANDLEY Executive Chairman

- Past President of the Australia China Business Council, specialising in advising North Asian investors and their Australian counterparts across a range of sectors including resources and mining
- Convenor and moderator of the Western Australian Premier's China WA Strategic Resources Dialogue



SHANE HARTWIG MD & CEO

- 30+ years' experience in finance, capital markets and project development, most recently CFO and commercial lead for a proposed greenfield integrated infrastructure and mining project
- Proven track record working as a trusted strategic corporate and commercial advisor to small and mid-cap ASX listed companies



BIN CAI Executive Director

- Managing Director of Conglin International Investment Group
- Record of successful investments in emerging Australian resources companies based on a long experience in resources investment.
- Prior 8 years' experience with the China Investment Bank



LIANGBING YU Non-Executive Director

- 20+ years' experience in business operations and management, including investment analysis and strategy setting
- Based in Beijing China and has a dual bachelor degree in Investment Economics and Economic Law



NICK CURTIS Strategic Advisor

- 35+ years' experience in mining and finance, with 25+ years of RE experience.
- Previous Executive Chairman of Lynas Corporation (ASX:LYC) after taking control of the company in 2001, he refocused it as a rare earths company developing the Mt Weld deposit in WA, and a large downstream rare earth processing plant in Malaysia and assisted in growing Lynas into the market leading RE company ex-China

ANGELA GLOVER Chief Operations Officer

- 20+ years' experience in the resources and infrastructure industries, with extensive experience in operational roles, ESG and Corporate Affairs; most recent experience is in a complex regulatory greenfield start-up
- Member of the Australian Institute of Metallurgy and Mining and a Graduate of the Australian Institute of Company Directors

GARETH FLEMING Project Director

- ~20 years' experience in the resources and construction industries, with extensive experience in project management and project engineering including remote construction, executive management, bid leading, business development and board representation
- Most recent experience is Project Director for a rare earth mining project

DALE RICHARDS Head of Technical Services

- 25+ years' experience in the mining industry managing exploration and growth, operational geology and near mine resource operational readiness
- Extensive experience in underground and open pit mining operations



HAYLEY PATTON Head of People and Culture

- 15+ years' experience in senior leadership and management roles within the mining and resource sector and other industries
- Experienced in strategic and value driven HR practices
- Member of the Australian HR Institute

ROBIN JONES Project Consultant

- 30+ years' experience in the mining industry and has held senior positions globally across various mining companies
 - COO of Northern Minerals for ~10 years and was the Project Director for the 2015 DFS, with over 10 years' experience in rare earths



