

Yangibana Project – Begin the Future

HASTINGS
Technology Metals Limited

Investor Presentation
February 2021

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All currency amounts are in A$ unless stated otherwise.

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Exploration Targets

The terms "Target" or "Exploration Target" where used in this presentation should not be misunderstood or misconstrued as an estimate of a Mineral Resource as defined in this context. Exploration Targets are conceptual in nature, there has been insufficient exploration to define a Mineral Resource and it is uncertain further exploration will result in the determination of a Mineral Resource.

Competent Persons' Statement

The information in this announcement that relates to Mineral Resources is based on information compiled by David Princep and Lynn Widenbar. Both Mr Princep and Mr Widenbar are independent consultants to the Company and members of the Australasian Institute of Mining and Metallurgy (AusIMM). Mr Princep and Mr Widenbar have sufficient experience relevant to the styles of mineralisation and types of deposits which are covered in this announcement and to the activity which they are 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' ("JORC Code"). Consent by Mr Widenbar to include statements in this announcement have been provided in previous announcements entitled "Increase in Measured and Indicated Resources at Yangibana Project" dated 28 November 2018. Consents to include statements in this announcement have been provided in previous announcements entitled "Final 2017 JORC Resource Update Including Auer and Auer North Results" dated 22nd November 2017; "Yangibana Project Resources Now Exceed 20.5 Million Tonnes" dated 12th October 2017; "Another Major Increase In JORC Resources From Current Yangibana Drilling" dated 24th July 2017 and "Increase in Measured and Indicated Resources at Yangibana Project" dated 22nd November 2018

The information in this presentation that relates to the Fraser's and Bald Hill Ore Reserve is based on information reviewed or work undertaken by Mr Steve O'Grady, AusIMM, a Director of Intermin Engineering Consultants. Mr O'Grady has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the preparation of mining studies to qualify as a Competent Person as defined by the JORC Code 2012. Mr O'Grady consents to the inclusion in this announcement and of the matters based on his information in the form and context in which it appears.

The scientific and technical information in this presentation that relates to process metallurgy is based on information reviewed by Ms. Narelle Marriott (Principal Engineer – Beneficiation and Mr. Zhaobing (Robin) Zhang (Process Engineering Manager) of Hastings Technology Metals Limited. Both Ms. Marriott and Mr Zhang are members of the AusIMM. Each has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined by the JORC Code 2012. Ms. Marriott and Mr Zhang consent to the inclusion in this announcement of the matters based on their information and in the form and context in which it appears

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Australia's Next Rare Earth Producer

- Up to 52% NdPr:TREO, highest amongst peers
- World leading Beneficiation upgrading of up to 25x mine grade
- Low Capex – A$449M; Production 15,000tpa MREC; equivalent to 3,400tpa NdPr oxides after separation
- Next RE producer (non-China) coming to production by 2023; construction targeted to start Q2 2021
- 13 years mine life (New resource estimation due in Q1 2021)
- Perfectly timed to benefit from global NdPr demand growth: 6% CAGR 2020 - 2027
- Strong Economics; NPV 2019: $549M, IRR 21% ; Payback 3.4 yrs (revision due Q1 2021)

Yangibana Project – Milestones Achieved

PROJECT MILESTONES

RESERVE & RESOURCE UPGRADES

Jan 17 13.4 MT JORC Resource

Oct 17 20.7 MT JORC Resource

Nov 17 5.2 MT JORC Reserves

Nov 17 Native Title agreement signed

Nov 17 DFS completed

Feb 2018 Thyssenkrupp Offtake MOU signed

May 18 Earth works & Accom. Camp Construction

Nov 18 Skyrock Baotou offtake contract signed

Feb 19 JORC Reserves increased to 10.35MT

Feb 19 Successful 2nd pilot plant test - Higher Yield

Mar 19 NAIF to finance infrastructure

Apr 19 Euler Hermes (UFK) In Principal Eligibility

June 19 Schaeffler Off-Take MoU

Aug 19 WA Minister of Environment- Approval obtained

Oct 19 EPCM contract signed with DRA

Nov 19 JORC Resource and Reserves increased to 21.3MT and 12.2MT respectively

Apr 20 Commonwealth Environmental Approval

Jun 20 Process Plant - Works Permit granted

Jun 20 Schaeffler Master Supply Agreement signed

Jul 20 Finnvera In Principal Eligibility

Nov 20 52% NdPr:TREO at Simon's Find and 8km long mineralisation

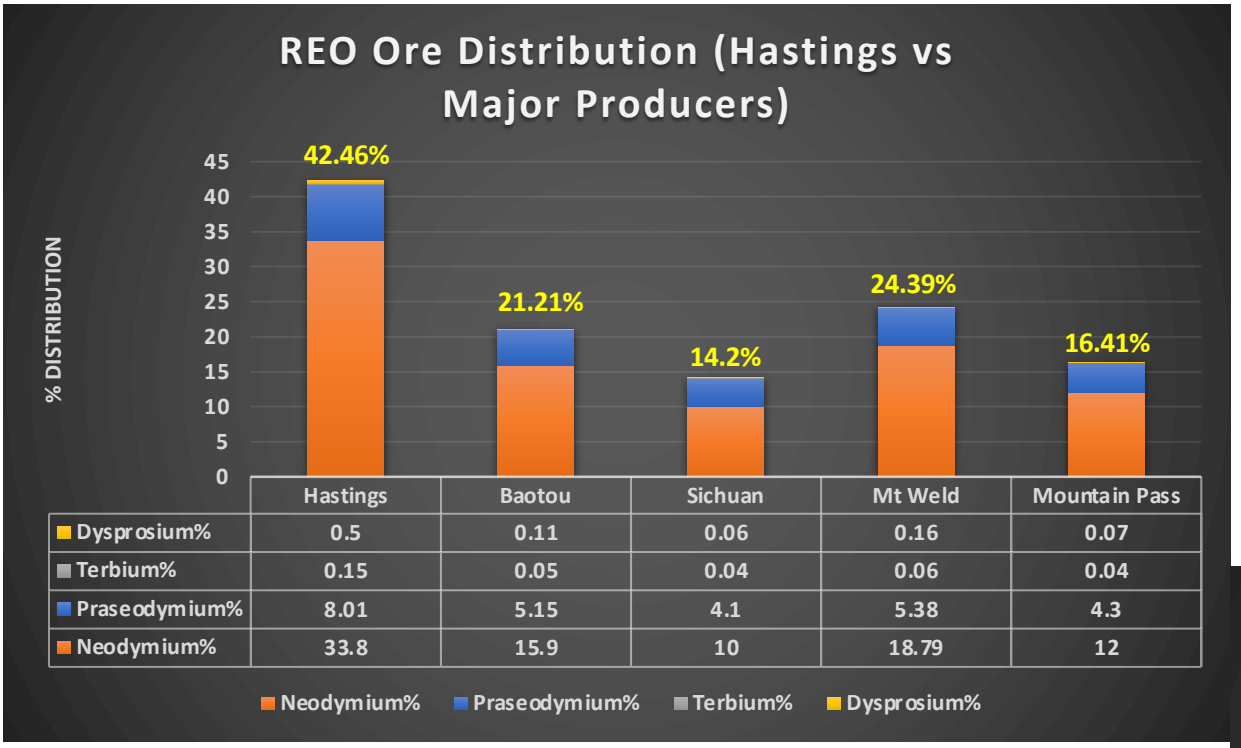
2017 2018 2019 2020


Yangibana Project Site


Exploration Drilling

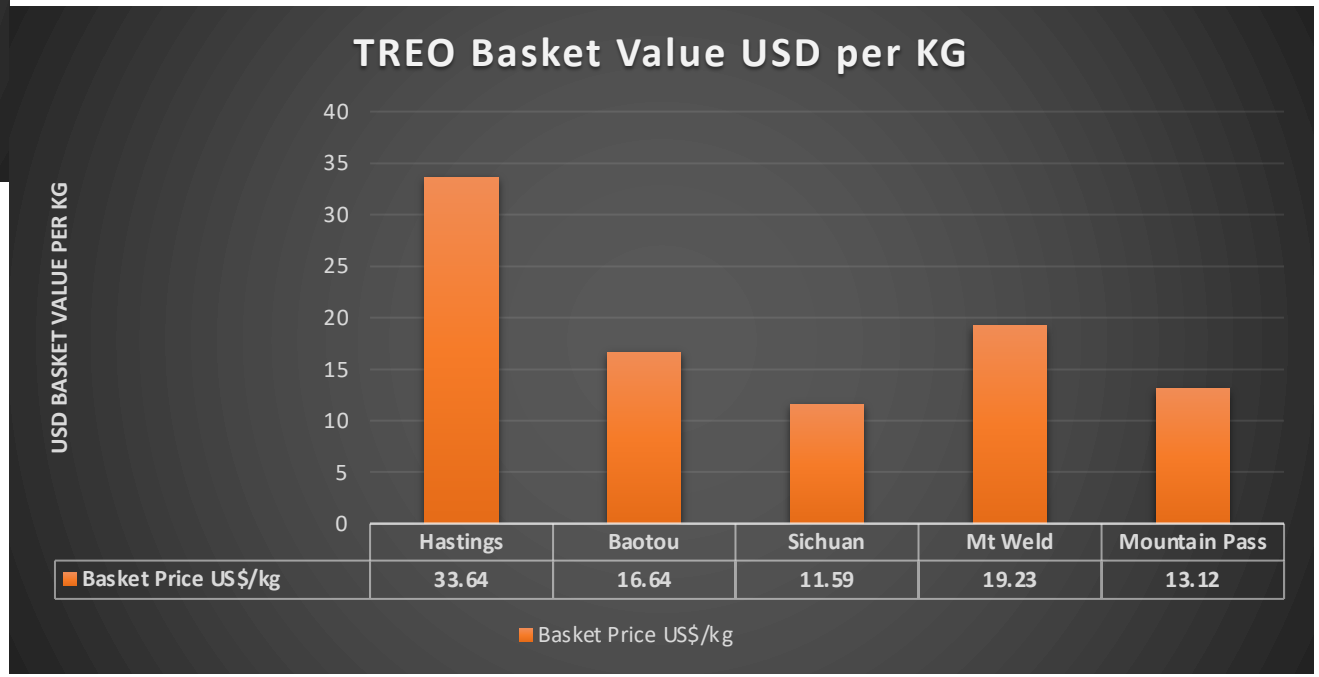

Accommodation Village

Yangibana Advantage – Highest NdPr :TREO ratio



- Highest value Rare Earths Project for Ore value per kg
- 75 – 175% higher value ore products than any current producing rare earth project

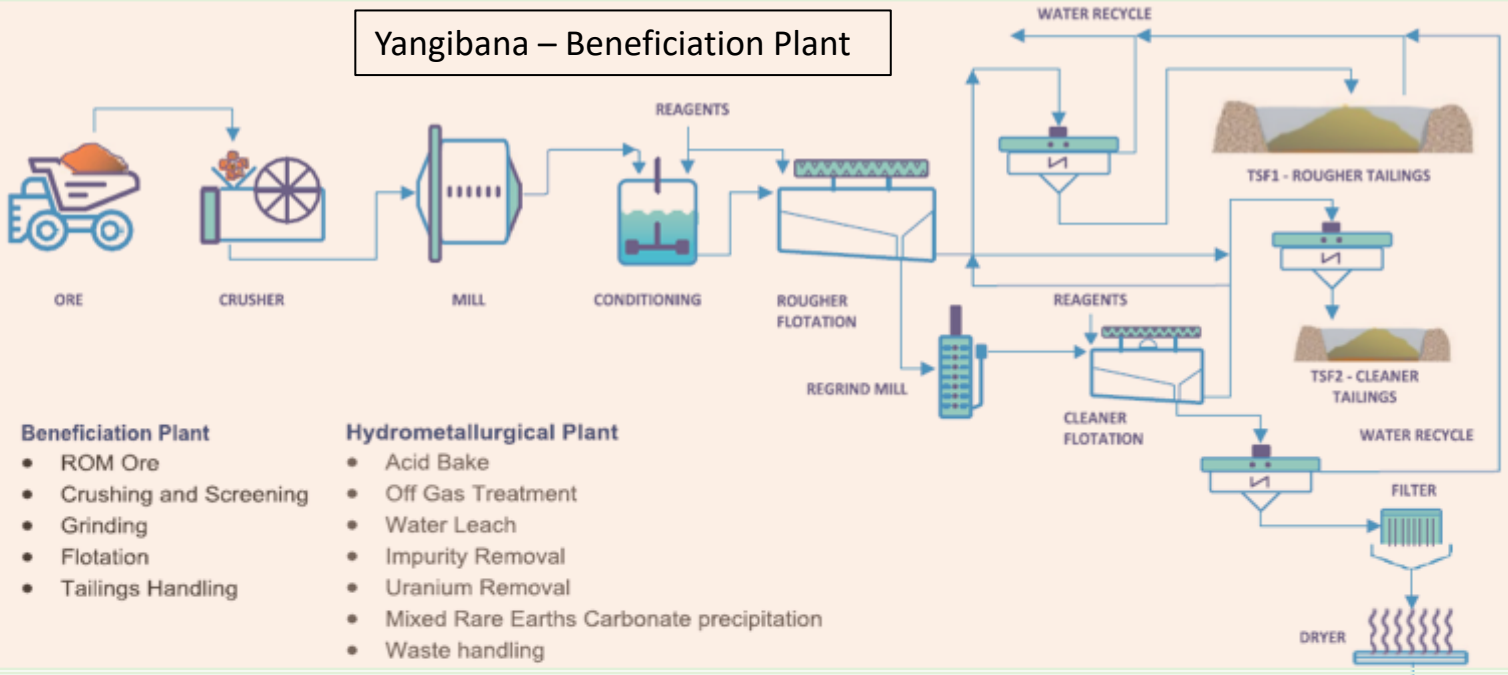
- Highest contents of key rare earth elements for any known rare earth project
- 92% of ore value contained in the 4 key elements required for electric vehicle market



Source: Computation based on Asian Metal market price of RE oxides as at 27 Nov 2020

Economics – Its not about the TREO grade

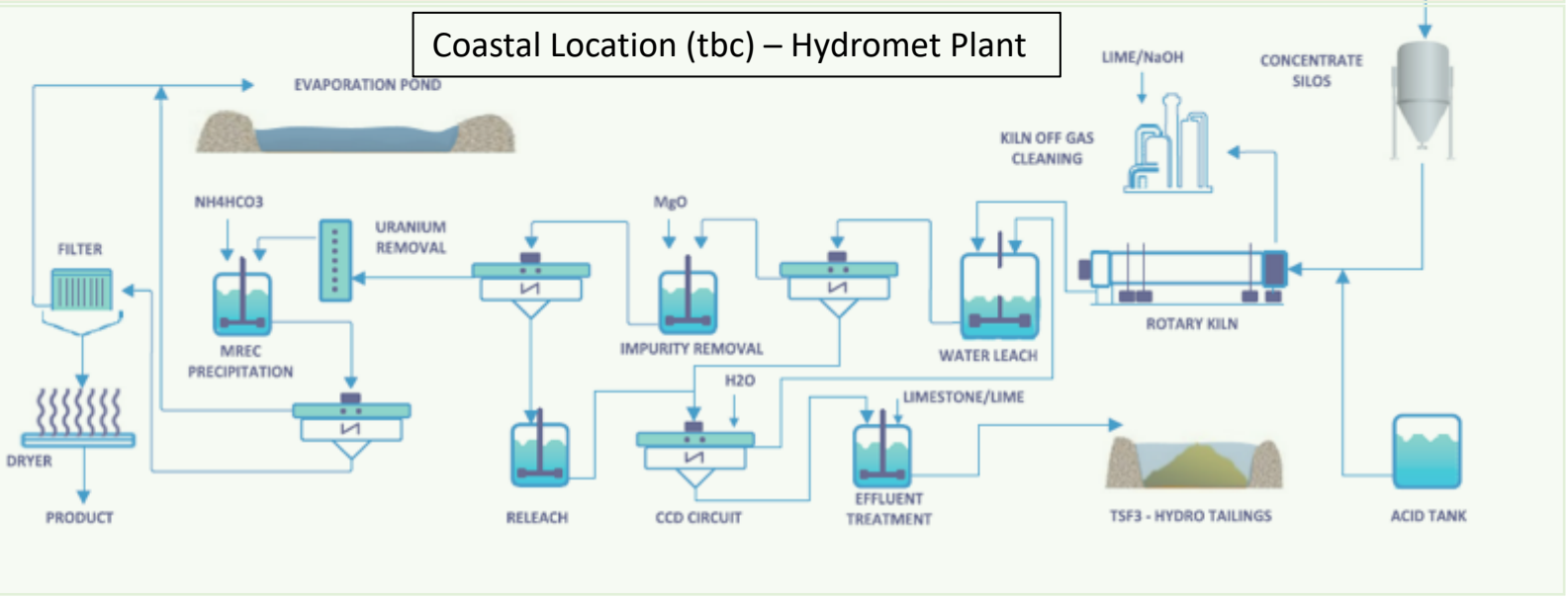
Yangibana – Beneficiation Plant



Beneficiation Plant
- ROM Ore
- Crushing and Screening
- Grinding
- Flotation
- Tailings Handling

Hydrometallurgical Plant
- Acid Bake
- Off Gas Treatment
- Water Leach
- Impurity Removal
- Uranium Removal
- Mixed Rare Earths Carbonate precipitation
- Waste handling

Coastal Location (tbc) – Hydromet Plant



Grade from the Mine

Company	TREO % (Head Grade)	NdPr: TREO	NdPr %
1	16%	24%	3.84%
HAS	1.2%	41%	0.50%
3	2.77%	26%	0.73%

End of Flotation Stage

Company	TREO % (Head Grade)	TREO% Con Grade	% of NdPr in Con	Con Upgrade Factor
1	16%	35%	8.4%	2.2
HAS	1.2%	27%	11.1%	22
3	2.77%	7.0%	1.85%	2.5

Final Product

TREO Con Grade in MREC	% of NdPr in MREC	Process Plant Upgrade factor
59%	22%	50

Separation cost advantage

High NdPr content allows for lower separation cost vs China

	MREC (t)	TREO%	NdPr:TREO	% of NdPr per tonne	REO (t)	NdPr (t)
China	27,750	59%	20%	12%	16,373	3,275
Hastings	15,000	59%	37%	22%	8,850	3,275

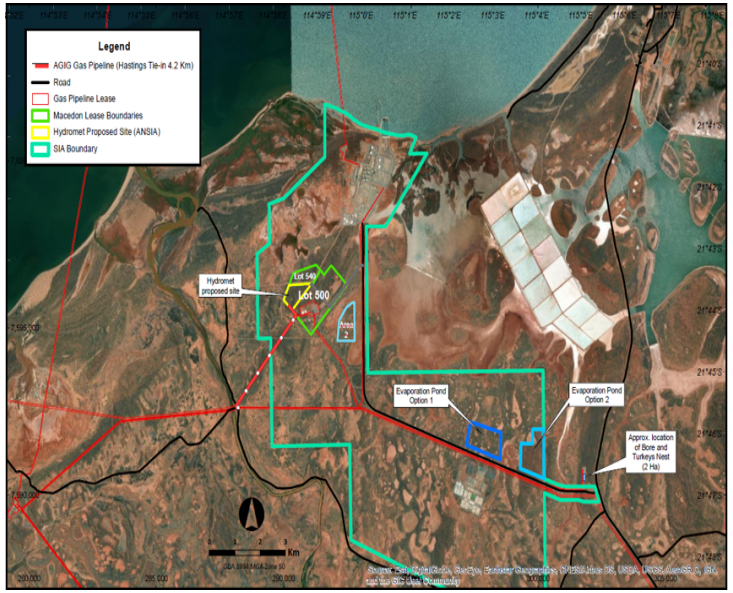


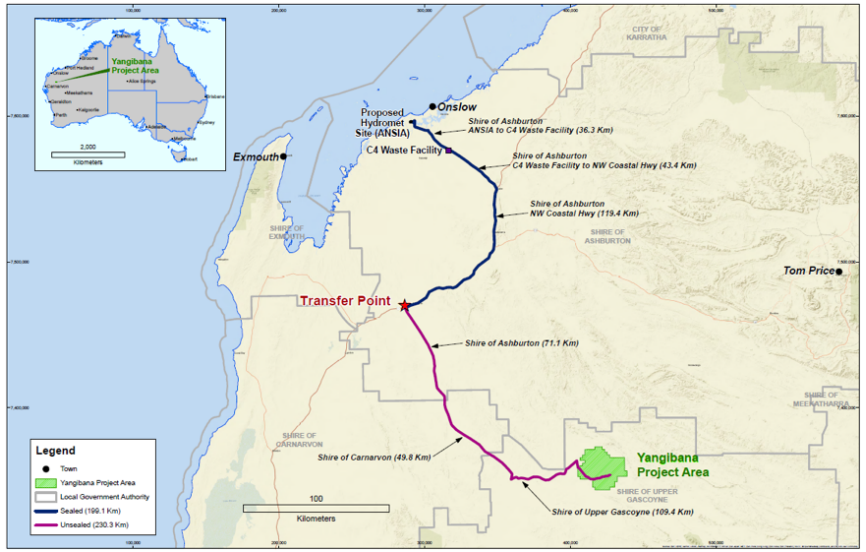
Hastings' MREC

- almost 2x cheaper to separate than (20% NdPr:TREO) Chinese reference MREC; or
- almost 4x cheaper to separate than actual (10% NdPr:TREO) Chinese actual MREC
- Contains 59% TREO or 22% NdPr in every tonne of MREC
- > 40% NdPr:TREO first 8 years from Bald Hill and Frasers pits
- 37% NdPr:TREO average from 5 different open pits based on 13 years mine life.

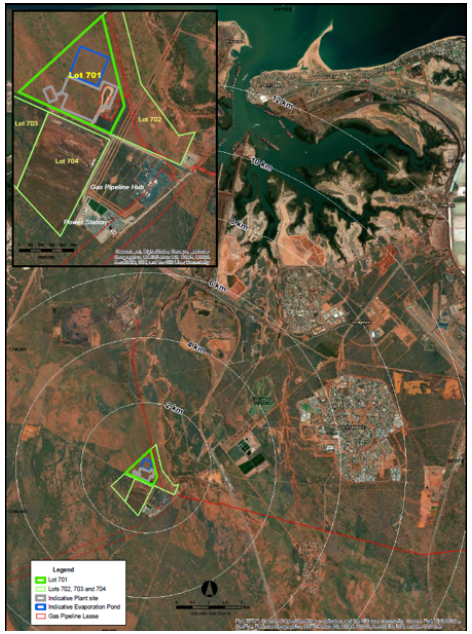
Hydromet Relocation Study – Onslow or Port Hedland

Onslow Strategic Industrial Area



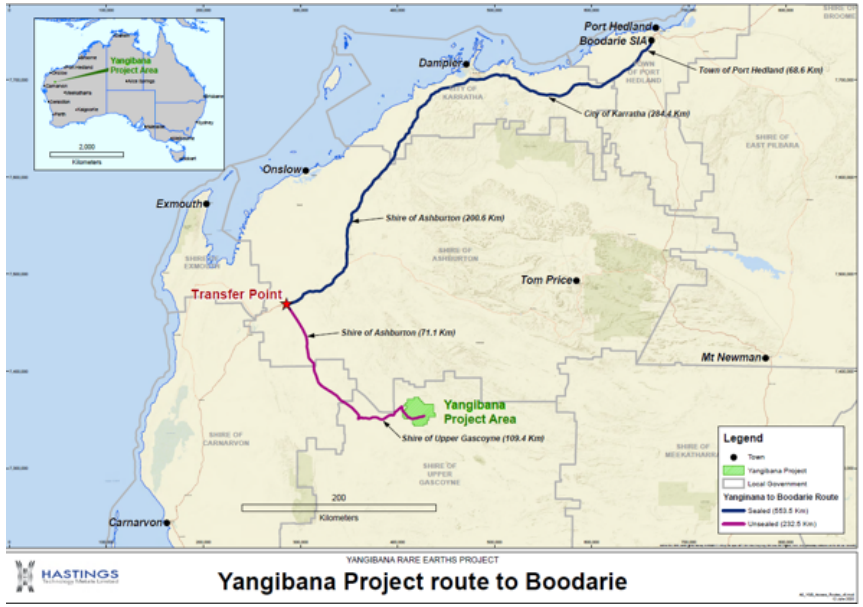


Port Hedland Industrial Area



Services available at both sites

- Gas
- Mains Power
- Water
- Port Facilities
- Roads
- IT Comms



2020 Exploration Drilling Program

2020 Drilling Program

1. 23,000m of RC drilling – completed
2. 5,000m of close space drilling – completed
3. Metallurgical test samples – near completion zones.



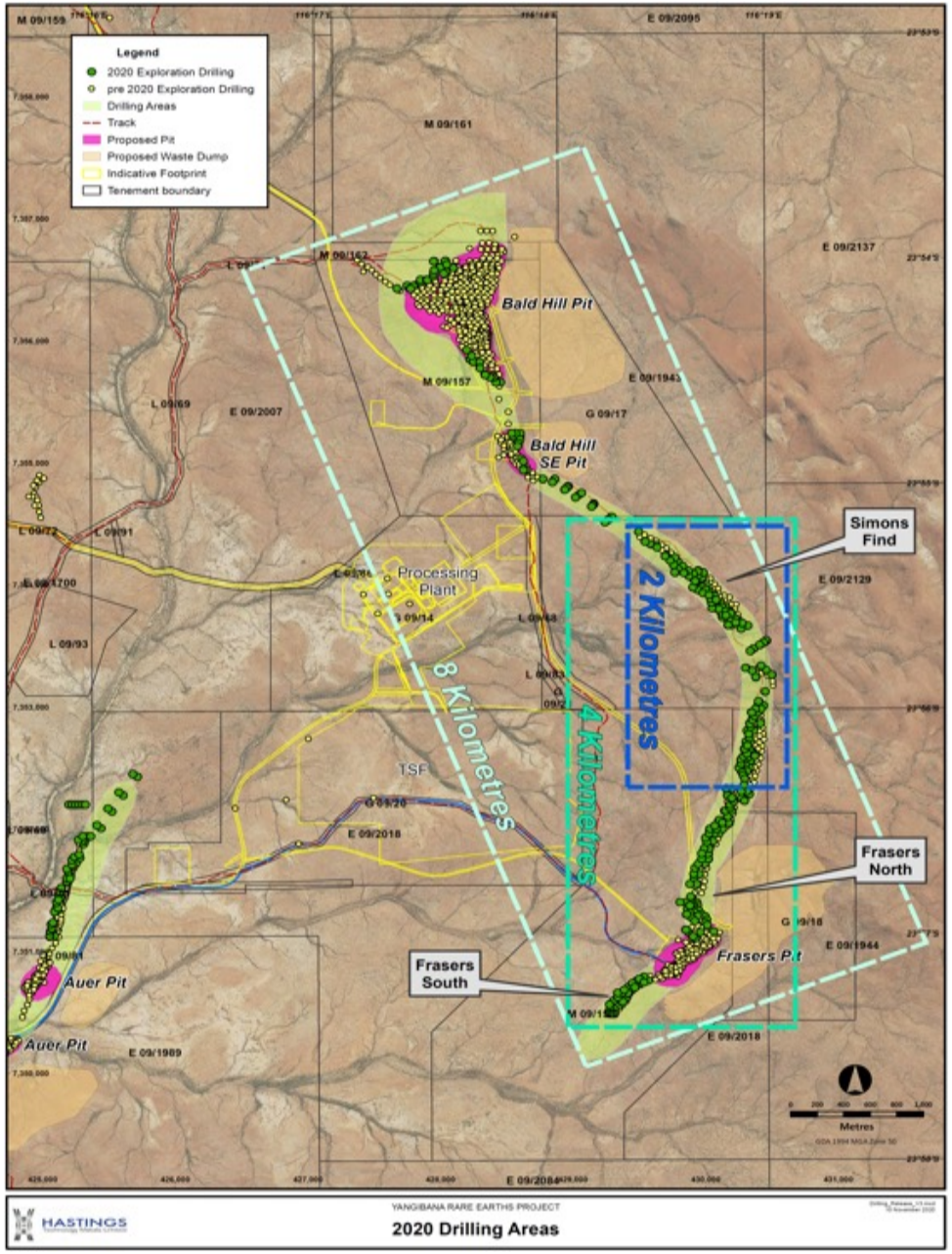
GC Drilling at Bald Hill

RC Drilling at Bald Hill



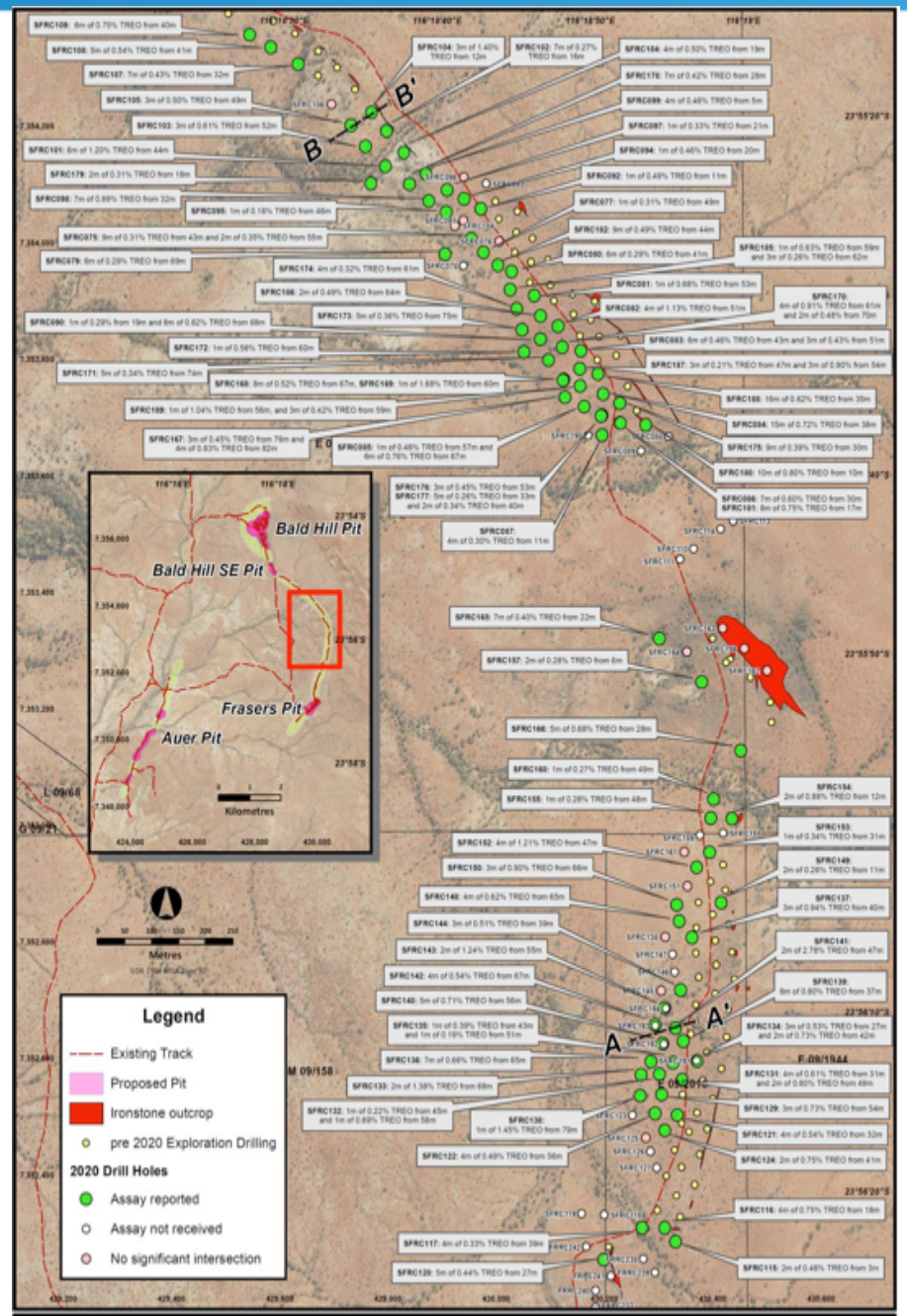
Exploration Drilling at Bald Hill

Bald Hill - Simon's Find – Frasers (8kms long)



1. Drilling results confirm a major 2km long zone of economic mineralisation at Simon's Find
2. Simon's Find and the recently announced Fraser's North and South drill results form a continuous zone of economic mineralisation 4km long
3. The Fraser's - Simon's Find - Bald Hill trend now forms an 8km-long economic mineralised corridor

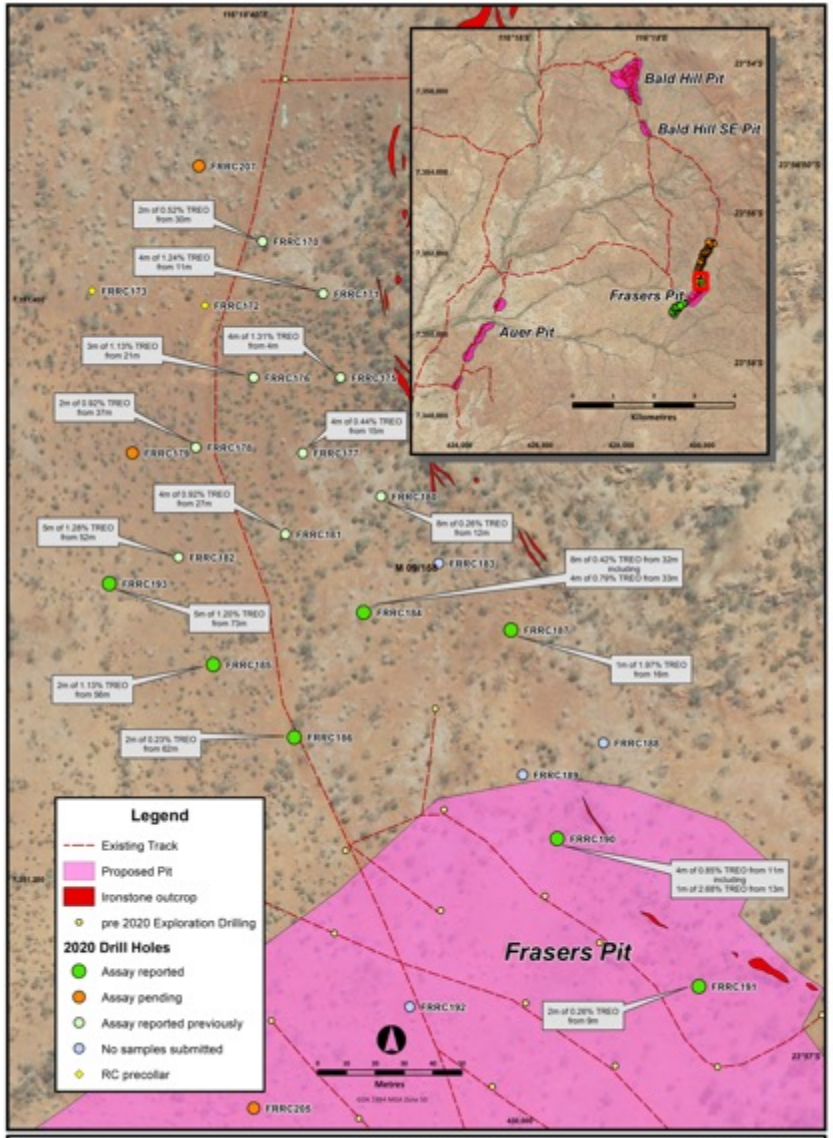
Simon's Find Drilling Results



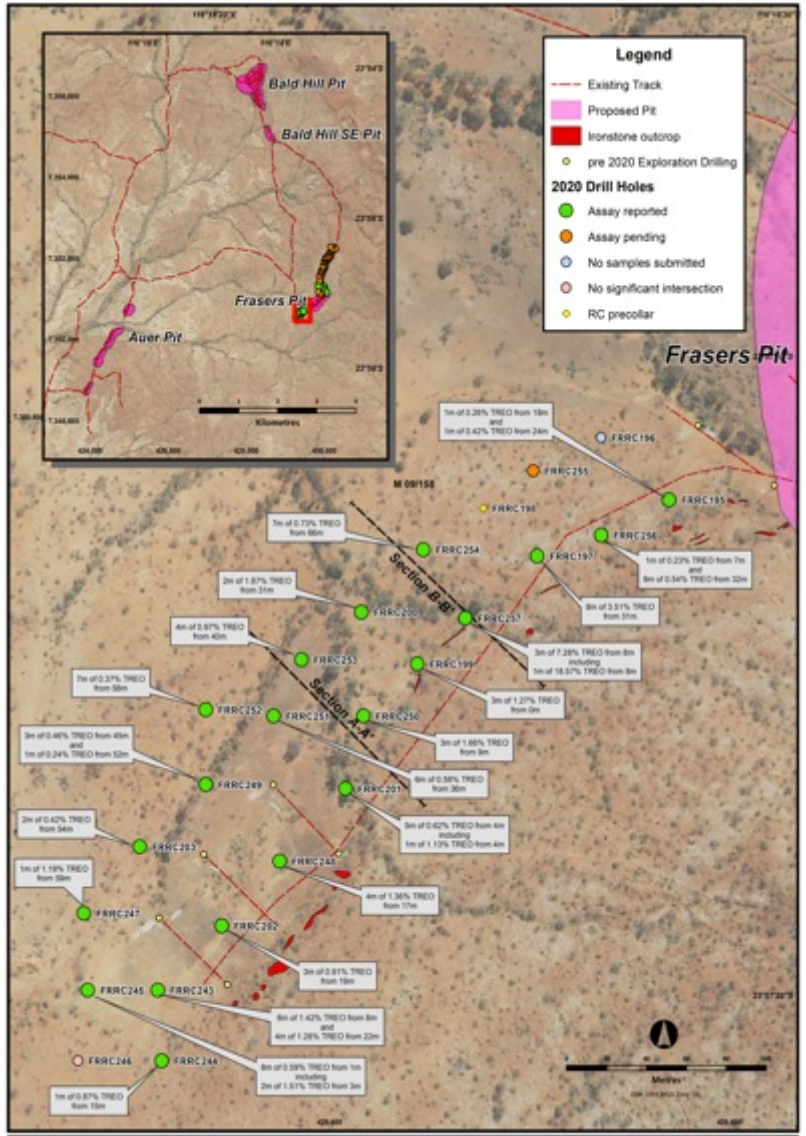
- **World leading grade of neodymium (Nd_2O_3) + praseodymium (Pr_6O_{11}) = 52% of the TREO (total rare earth oxides) values.**
- These results are **significantly higher** than the 40-41% values recorded from the nearby Bald Hill and Frasers deposits.
- High-grade and shallow intersections from Simon's Find include:
- 2m @ 2.78% TREO from 46m
- 6m @ 1.20% TREO from 43m
  - including 4m @ 1.61% TREO
- 4m @ 1.21% TREO from 46m
- 15m @ 0.72% TREO from 37m
  - including 6m @ 1.11% TREO
- 2m @ 1.38% TREO from 67m
- 7m @ 0.89% TREO from 31m
  - including 2m @ 1.76% TREO
- 3m @ 1.40% TREO from 11m
- 6m @ 0.75% TREO from 39m
  - including 2m @ 1.51% TREO

Frasers Drilling Results

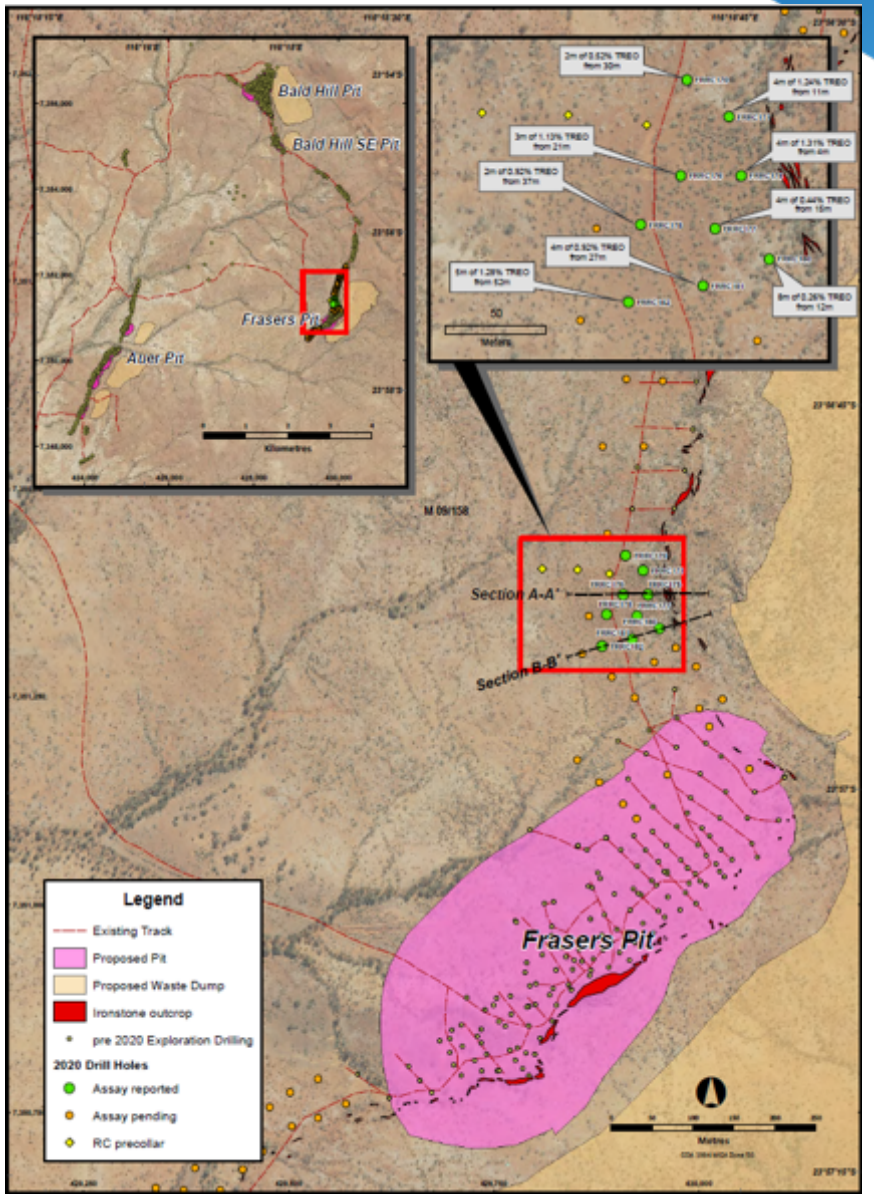
Frasers North



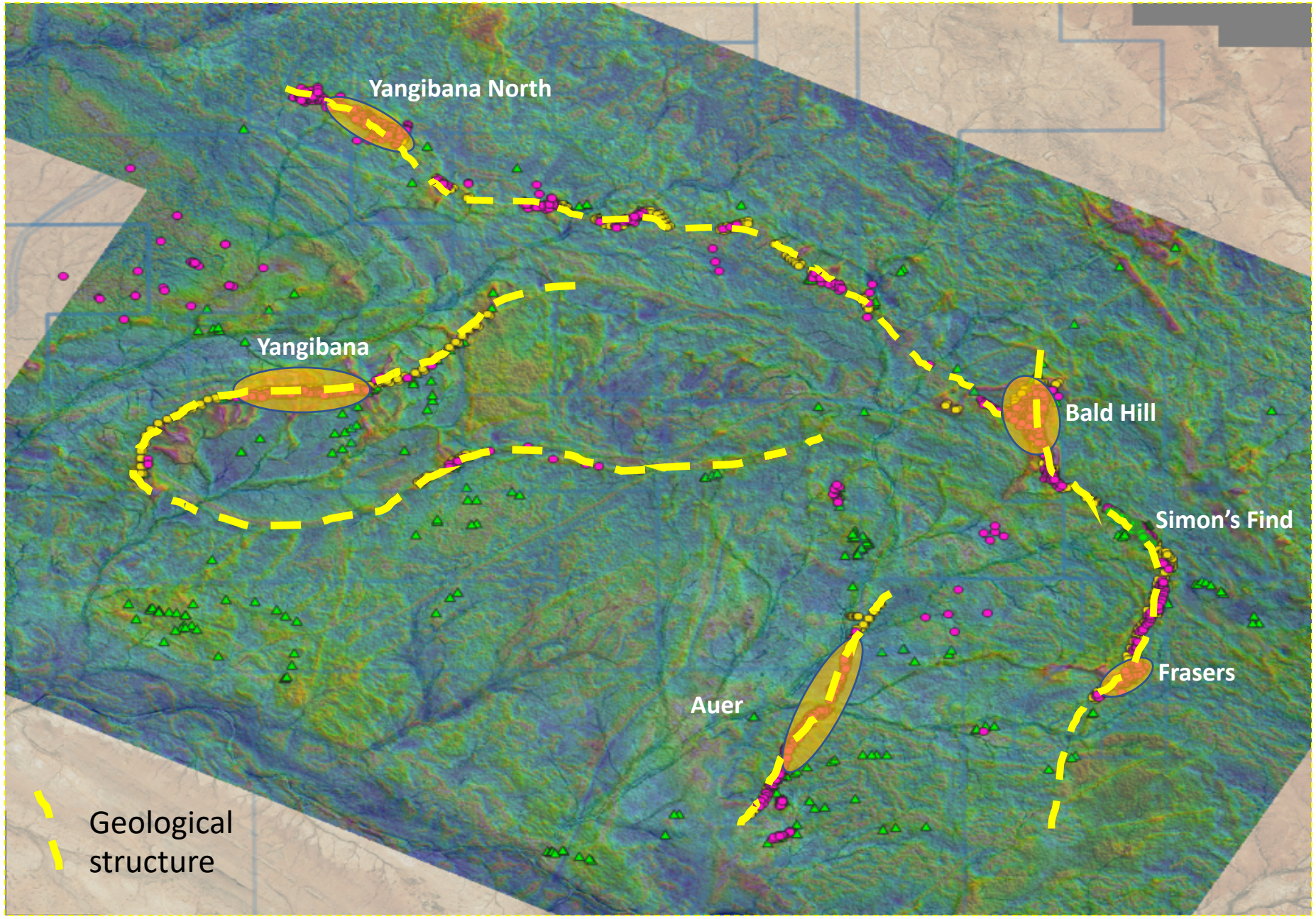
Frasers South



Potential Pit Size



Exploration Potential – What is the Upside ?



Drilling

- Historic
- Planned
- Assays Pending

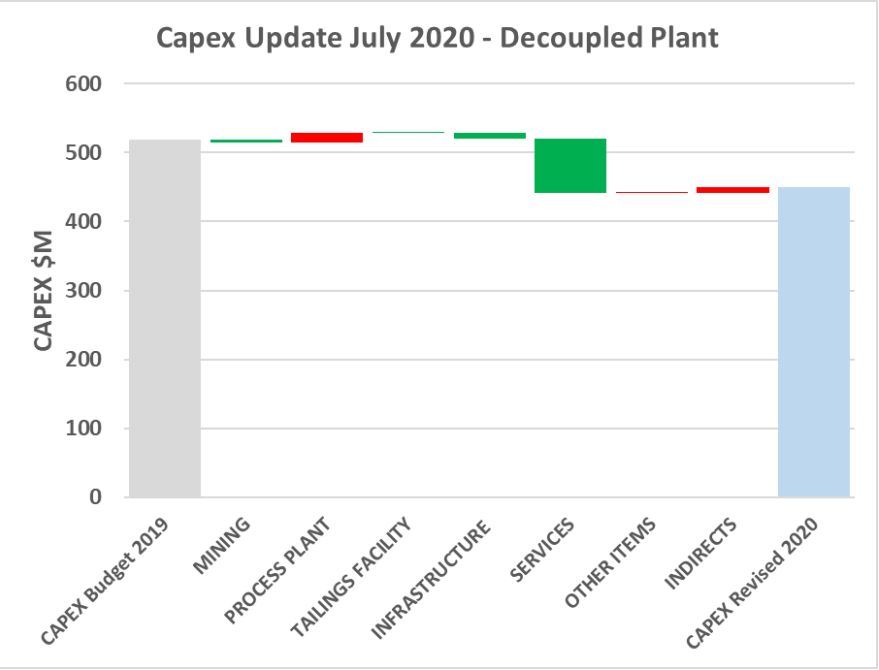
Capex Scenario – excluding contingency

Decoupling of beneficiation and hydromet plant savings total $68M

	Capex Budget 2019 ($m)	Capex Revised 2020 ($m)	Variance ($m)
Mining	14	10	-3
Process Plant	167	181	14
Tailings Facility	19	18	-1
Infrastructure	77	69	-8
Services	130	50	-79
Other Items	9	9	0
Indirects	104	112	8
Totals	517	449	-68

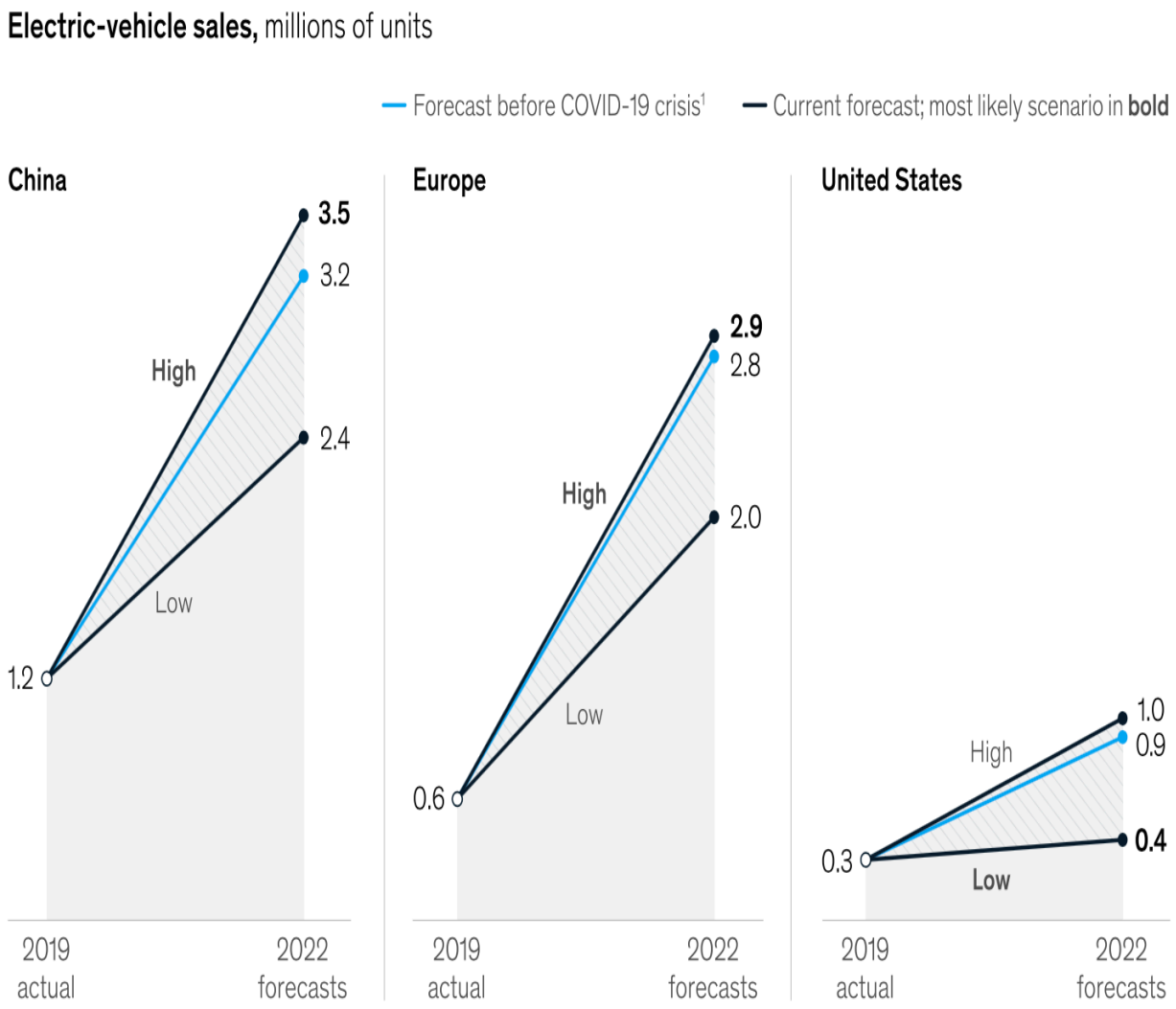
CAPEX savings

- Reduced by $68m
  - Hydromet to Onslow (tbc)
  - Eliminated Gas pipeline



EV: 2022 forecast market share – *McKinsey Report*

China and Europe EV market forecasted to grow much faster than in US



Source: McKinsey Report September 2020

** Cleantechnica - Nov 22nd 2020*

- Government regulations and incentives will propel EV penetration. Forecast EV mkt share from 2019 to 2022 :
  - China: from 5% to 11-14% (~1.2m to 3.5m units)
  - Europe: from 3% to 14/15% by 2022 (~0.6m to 2.9m units)
  - US: from 2% to 3-6% by 2022 (~0.3 to 1.0m units)
- EU automakers are relying on EVs to achieve Europe's 2020/21 carbon-dioxide emissions limits of 95 gm of CO_2 per km
- China government extended EV subsidies to end 2022 and spending RMB10bn (US$1.4bn) in expanding the charging network.
- US – uncertain economics, regulatory outlook and low gasoline prices (due to low crude oil price) discourage purchase of EV. (Biden victory may accelerate pace of EV adoption)
- Germany: October - BEV and PHEV > 48K units registered = 18% of total vehicle sales for Oct, record month *
- UK to ban petrol and diesel cars by 2030
- By 2030 : Estimated EV sales in China - 35 – 50%
  Europe is 35 – 45% of total vehicle sales

Market Update

- **Market for Magnet Rare Earth Oxides to Increase 5x by 2030** (1)
  - Total NdFeB magnet demand forecasted to increase at 9.7% CAGR and prices projected to increase at CAGRs of 5.6% to 9.9% over same period
  - Global magnet rare earth oxides consumption will rise 5x by 2030, from US$2.98B in 2020 to US$ 15.65B by 2030
- **Annual NdFeB Shortages of 48KT Expected by 2030** (1)
  - Constrained by an expected under-supply of NdPr and Dy oxide from 2022 onwards
  - Forecasts global shortages of NdFeB alloy and powder will amount to 48KT p.a. by 2030 equals to approx 25 to 30 million EV traction motors
- **Annual NdPr Oxide Shortages of 16KT Expected by 2030** (1)
  - Constrained by lack of new primary and secondary supply sources from 2022 onwards
  - Global shortages of NdPr and Dy oxide will collectively rise to 16KT tonnes in 2030, an amount equal to approximately 3x Lynas annual output
- **Passenger EVs are forecast to grow at over 26%pa over the next decade** (2)
  - By 2022, EV demand for NdFeB magnets to be double wind turbines and dominate the industry towards the end of the decade, accounting for over 40% of demand
- **January to August 2020, China's rare earth exports fell 25.7% year over year to 24,377 tonnes due to** (3):
  - Changes in international market demand and risks because of pandemic and trade tensions
  - Anticipation that Chinese government will launch a stockpiling program for light rare earth due to strong domestic demand

Source: *(1) Adamas Intelligence Sept 2020*
(2) Roskill Aug 2020
(3) S&P Global Market Intelligence Sept 2020

Offtake Snapshot

> 65% of production contracted for 10 yrs with strong offtake counterparties

Offtake Counterparty	SCHAEFFLER	thyssenkrupp	TS SKYROCK
Contract Status	Master Supply Agreement Signed Jun-2019	MOU signed 2018, advanced contract drafting Target signing March	Offtake Agreement Signed Nov-2018.
Quantity	5,000t MREC p.a.	7,500t MREC p.a	2,500t MREC p.a.
Tenor	10 years	10 years	5 Years Fixed Term with 2 year flexible ramp-up of supply.

Offtake Counterparty	*Confidential*	*Confidential*
Contract Status	MOU signed Apr 2020 - in contract drafting for MSA	Advance negotiation and contract Drafting
Quantity	Approx. X,000t MREC p.a	X,000t MREC p.a.
Tenor	5 + 5 years	10 years

Project Finance Lenders

- Loans to be underpinned by long term offtake contracts with German Tier 1 companies, Schaeffler and Thyssenkrupp
- KFW Ipex Bank mandated to advise on German untield loan guarantee scheme UfK) which attracts concessionary financing, subject to certain conditions benefiting Germany
- KPMG Corporate Finance Australia advising on multi lenders debt financing package
- NAIF and KFW conducted due diligence in 2019 pre-decoupling of beneficiation and hydromet plants.
- Lenders conducting additional due diligence now based on relocation of hydromet plant.
- **Concessionary Senior Debt ~A$200M**
  - **North Australia Infrastructure Facility (NAIF)**: Rare earth being categorised as critical minerals, is eligible for Australian government concessionary financing support
  - **UfK: Euler Hermes** provided eligibility for UfK loan scheme subject to certain conditions including jobs creation in Germany, tax revenue, etc
  - **Finnvera Export Credit Financing ~A$100M -** Process plant equipment supplied by Outotec of Finland qualifies for ECA support
- **Commercial Lenders (A$50 - 100M)**
  - Term Sheet received from European and Australian banks and specialist resource funds – due diligence and negotiations in progress

Project Funding - Overview

Indicative Debt/Equity Structure

	A$M	A$M	%
Project Capex – Mine & Process Plant	449		
Contingency @ 15%	67		
Total Project Capex*		**516**	**80%**
Sunk cost up to DFS		33	5%
Working capital		27	4%
Financing costs/ IDC / ECA insurance premium, etc		66	11%
Total funding for the Project		**642**	**100%**
Equity/cash raised since 2014 - capitalised		133	21%
Project Finance (NAIF, UFK, FV and Commercial Banks)**		385	60%
Balance of equity to raise		124	19%
Total sources of fund		**642**	**100%**

Equity ~ 40%

**New capex updated - 29 July 2020*
***Multi-source package being arranged with a range of government lenders and commercial debt financiers*
 # Exercise of options will add A$32M to balance sheet

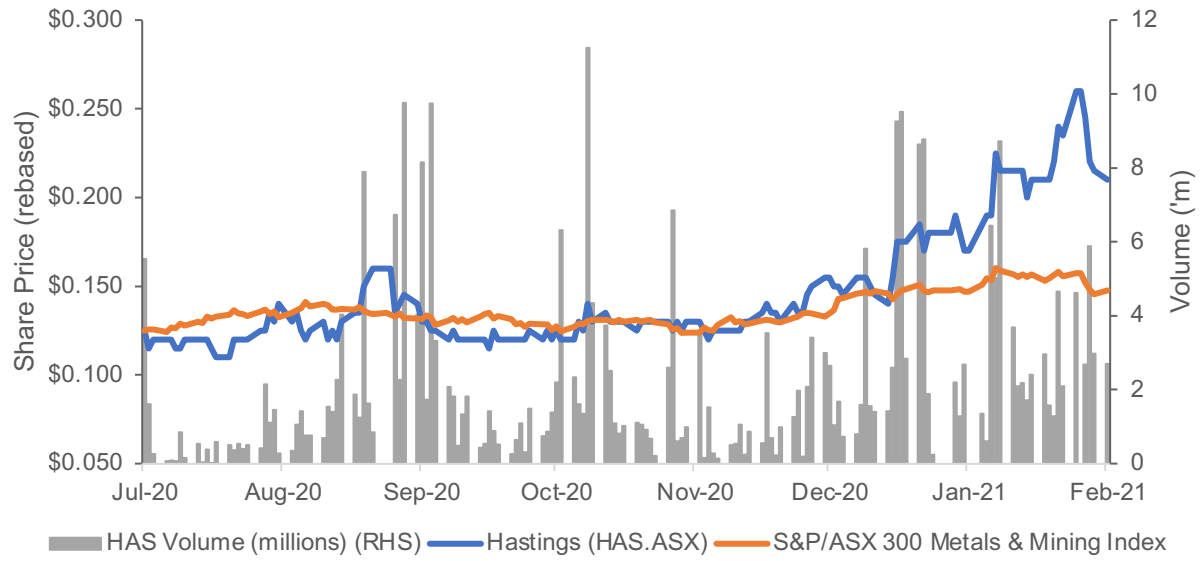
Capital Structure

Capital Structure	$/Shares
Cash Balance (at 31 Dec 2020)	A$20M
Shares in Issue	1,200M
Share Price (3rd Feb 2021)	A$0.22
Market Capitalisation	A$265M
Performance Rights (directors & staff)	19.5M
Options: ex-price @ 25c (expires Apr 2022)	126.7M

Major Shareholders	%
Foon Keong (Charles) Lew	10.1%
Mun Kee Chang	6.80%

Register Breakdown	
Shareholders	~2,000
% of Register Institutions/HNW Investors	~80%

Share Price Performance



Board Of Directors	
Charles Lew	Executive Chairman
Jean Claude Steinmetz	Non Executive Director
Mal Randall	Non Executive Director
Bruce McFadzean	Non Executive Director
Neil Hackett	Non Executive Director
Guy Robertson	Finance Director

Board of Directors



Jean Claude Steinmetz
Non Executive Director

- Joined the Board in July 2017
- Chief Operating Officer for Lynas Corporation 2013 - 2015
- 25+ years in the chemical industry with Rhodia and General Electric
- Chairman of the Auto Plastic and Innovative Materials Committee of Sino-EU Chemical Manufacturers Association



Bruce McFadzean
Non Executive Director

- Joined the Board in Jan 2021
- Managing Director of Sheffield Resources since 2015
- 40+ years in the global resource industry including 15+ years with BHP Billiton & Rio Tinto
- Led successful financing and operation of mines around the world



Charles Lew
Executive Chairman

- Appointed Chairman in Dec 2013
- 30+ years investment banking experience in London and Singapore.
- Entrepreneur with business experience in hedge fund, F&B and real estate
- MD of ABN Amro Investment Bank Singapore 1997 - 2000
- Independent Non Executive Director of RHB Banking Group 2004 - 2016



Guy Robertson
Finance Director

- Served on the Board of Hastings since 2011
- 30+ years CFO experience
- CFO for various ASX listed junior mining companies
- Senior finance executive in Jardine Matheson Group in Hong Kong and Australia including Jardine Lloyd Thompson, Colliers Jardine, and Franklins Limited



Mal Randall
Non Executive Director

- Joined the Board in Feb 2019
- 45+ years extensive experience in corporate, management and marketing in the resources sector including 25+ years with the Rio Tinto group of companies.



Neil Hackett
Non Executive Director

- Joined the Board in Nov 2018
- 15+ years ASX Director, Company Secretary with mining and industrial experience
- Corporate Finance and Regulatory Experience ASIC 1990-1999
- Independent Corporate Governance Advisor and AICD Facilitator

Experienced Senior Management Team



Nick Holthouse

General Manager – Engineering & Operation Readiness

- Joined Hastings in 2019 with 30+ years experience in surface & underground mining operations, engineering & surveying in commodities – gold uranium, coal and base metals
- Managed, Commissioned / Operated mines & process plants in remote regions
- Merdeka Mining, Finders Resources, CSA Global



Matthew Allen

Chief Financial Officer

- Joined Hastings in 2021 with 20+ years experience in finance, operational & management of public companies in resource sector
- CFO and Managing Director of Otto Energy Ltd in the US, and spent 8 years as Finance Manager at Woodside Energy
- Chartered Accountant Australia & New Zealand (CAANZ), a Fellow of FinSIA and a Graduate Member of the Australian Institute of Company Directors (AICD).



Andrew Reid

Chief Operating Officer

- Appointed COO in Nov 2018
- 25 years of expertise in mine management, geology and mining engineering concentrating on open pit and narrow vein mining
- Developed and managed mining projects in West Africa and Finland
- Previously COO of Finders Resources, GM of Kevitsa Mine, First Quantum Minerals, etc



Valerie Quay

Legal Counsel

- Joined Hastings in 2017
- Barrister at Law, Middle Temple UK and Herbert Smith LLP London
- Focused specialist in corporate commercial law ; 3P sector partnership
- Cross culture & multi jurisdiction experience in Management & Strategy Consulting



Robin Zhang

Process Engineering Manager

- Joined Hastings in 2016 with more than 20 years experience in R&D, project engineering, plant commissioning & operations
- 8 years Lynas - Senior Technical Services & Project Development Manager
- 11 years at Gansu Rare Earth Group China - Deputy Director Technical Centre

Independent Consultants and Advisors



DRA	Engineering, Procurement, Construction and Management (EPCM)
CRU	Commodity Market Analysis
HERBERT SMITH FREEHILLS	Project Finance Legal Counsel to Borrower
KPMG	Project Finance Debt Advisory
BEHRE DOLBEAR	Independent Technical Experts to Lenders
pwc	Financial Adviser to Euler Hermes
ERM	Environmental and Social Gap Analysis Report
ERNST & YOUNG	Cost Benefit Analysis Report

Competent Person

Competent Persons and Qualifying Persons Statement

The information in this announcement that relates to Exploration Results in relation to the Yangibana Project is based on information compiled by Mr. Benjamin Nicolson BSc (Hons), a Competent Person, who is a Member of the Australian Institute of Geoscientists. Mr. Nicolson is a full-time employee of the company and has sufficient experience that is relevant to the activity being undertaken to qualify as a Competent Person as defined in the 2012 edition of the Australasian Code for Reporting of Exploration Results, Minerals Resources and Ore Reserves. The Qualified Person has verified the data disclosed in this release, including sampling, analytical and test data underlying the information contained in this release. Mr. Nicolson consents to the inclusion in the announcement of the matters based on his information in the form and context in which it appears

In compliance with the JORC Code (2012), Hasting's cautions investors and notes that regional geology drilling and comments pertained in this presentation should not be considered a proxy or substitute for laboratory analyses which are still pending.

Thank You / Questions?

