eclipse METALS LTD

ASX: EPM

COMPANY PRESENTATION – JUNE 2021

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The Company is at an early development and exploration stage and although reasonable care has been taken to ensure that the facts stated in this presentation are accurate and/or that the opinions expressed are fair and reasonable, no reliance can be placed for any purpose whatsoever on the information contained in this document or on its completeness.

The information in this presentation that relates to Exploration Results and Exploration Targets is based on information compiled and reviewed by Mr. Rodney Dale, Non-Executive Director of Eclipse Metals Ltd. Mr. Dale holds a Fellowship Diploma in Geology from RMIT, is a Fellow of the Australasian Institute of Mining and Metallurgy (FAusIMM) and has sufficient experience relevant to the styles of mineralisation under consideration and to the activity being reported 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 Dale consents to the inclusion in this presentation of the matters based on information in the form and context in which it appears. Additionally, Mr Dale confirms that the entity is not aware of any new information or data that materially affects the information contained in the ASX releases referred to in this report.

INVESTMENT HIGHLIGHTS

NEAR-TERM PRODUCER

Targeting Mining Licence for Ivittuut, Greenland (cryolite, fluorite, quartz; bulk mining permit for Mary Valley Project, Qld (manganese) in CY2021.

STRONG CASHFLOW POTENTIAL

Projects hosting high value and in demand commodities at Ivittuut

MULTI-COMMODITY PORTFOLIO

Projects hosting industrial minerals, REE (Greenland), base metals, manganese and uranium (Australia)

MINING FRIENDLY JURISDICTIONS

Key projects in Greenland & Australia; well-established mining and infrastructure in place

EXPERIENCED BOARD & MANAGEMENT

With a track record in mineral exploration and discovery

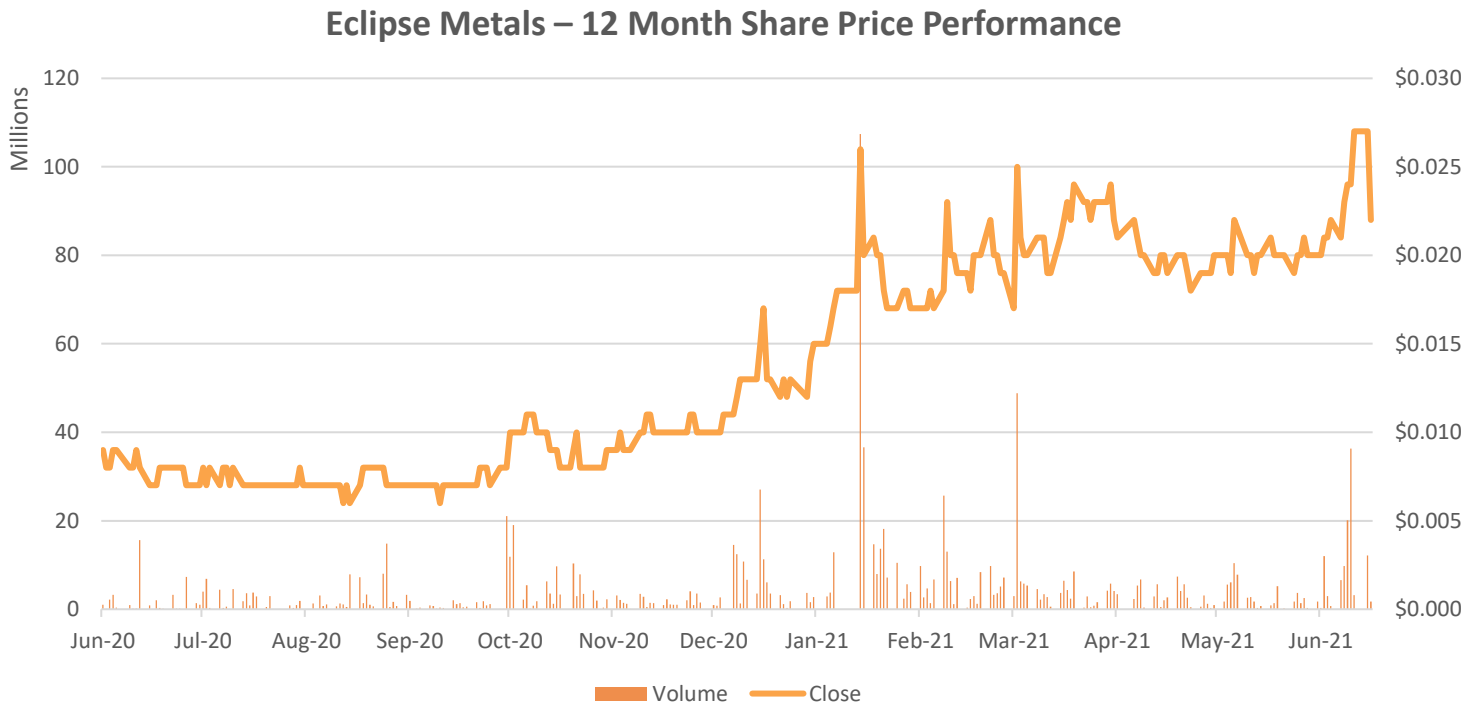
CREATING SHAREHOLDER VALUE

Delivering growth through near-term production and successful exploration and development

CORPORATE SUMMARY

ASX Code	EPM
Shares on issue	~1,914m

Current Share Price (as at 18 June 2021)	A$0.022
Market Capitalisation	~$42.1m
Cash (as at 31 March 2021)	$2m



BOARD & MANAGEMENT

Carl Popal
Executive Chairman

Carl Popal (B. Bus) has more than 20 years' entrepreneurial experience covering diverse range of commodities trading, corporate management, minerals exploration, asset management and construction to name some. Previously, Mr Popal was Chief Executive Director of ASX-listed company Paynes Find Gold Ltd. He is the Managing Director of Ghan Resources Pty Ltd and Popal Enterprises Pty Ltd. Since 2001, Mr Popal has managed several entities conducting international trading. He has more than 12 years' experience in property development and has managed various commercial dealings within a network of companies in various countries around the world including India, China and Malaysia.

Rodney Dale
Non-Executive Director

Rodney Dale has been an independent geological consultant since 1970, with three periods as a director of ASX listed companies. He holds a Fellowship Diploma in Geology from the Royal Melbourne Institute of Technology (FRMIT) and is a Fellow of the Australasian Institute of Mining and Metallurgy (FAusIMM). His experience covers more than 60 years, working in many parts of Australia, Indonesia, Africa and South America on gold, tin, wolfram, base metals and industrial mineral exploration and mining, including trial mining and export of high-grade quartz. He has worked in and managed small gold mines in Western Australia. Mr Dale has been involved with assessment of iron ore projects in Australia, South America, India, China and Africa.

Ibrar Idrees
Non-Executive Director

Ibrar Idrees has a Bachelor of Commerce (majoring in Accounting and Finance) from Deakin University and has more than 10 years professional and corporate experience gained in a diverse range of industries in Australian and South Asia. Mr Idrees, a practicing accountant, has worked in a variety of business development and financial positions in small and large companies.

Matthew Foy
Company Secretary

Matthew Foy is an experienced company secretary and active member of the Governance Institute Australia (GIA). He has 14 years' experience facilitating the listing and compliance of ASX companies and possesses core competencies in publicly listed company secretarial, operational and governance disciplines.

IVITTUUT PROJECT, GREENLAND

NEAR-TERM CRYOLITE, FLUORITE, ZINC, IRON AND QUARTZ PRODUCTION
RARE EARTH POTENTIAL

NEAR-TERM CRYOLITE, FLUORITE, QUARTZ, ZINC & IRON PRODUCTION WITH REE POTENTIAL

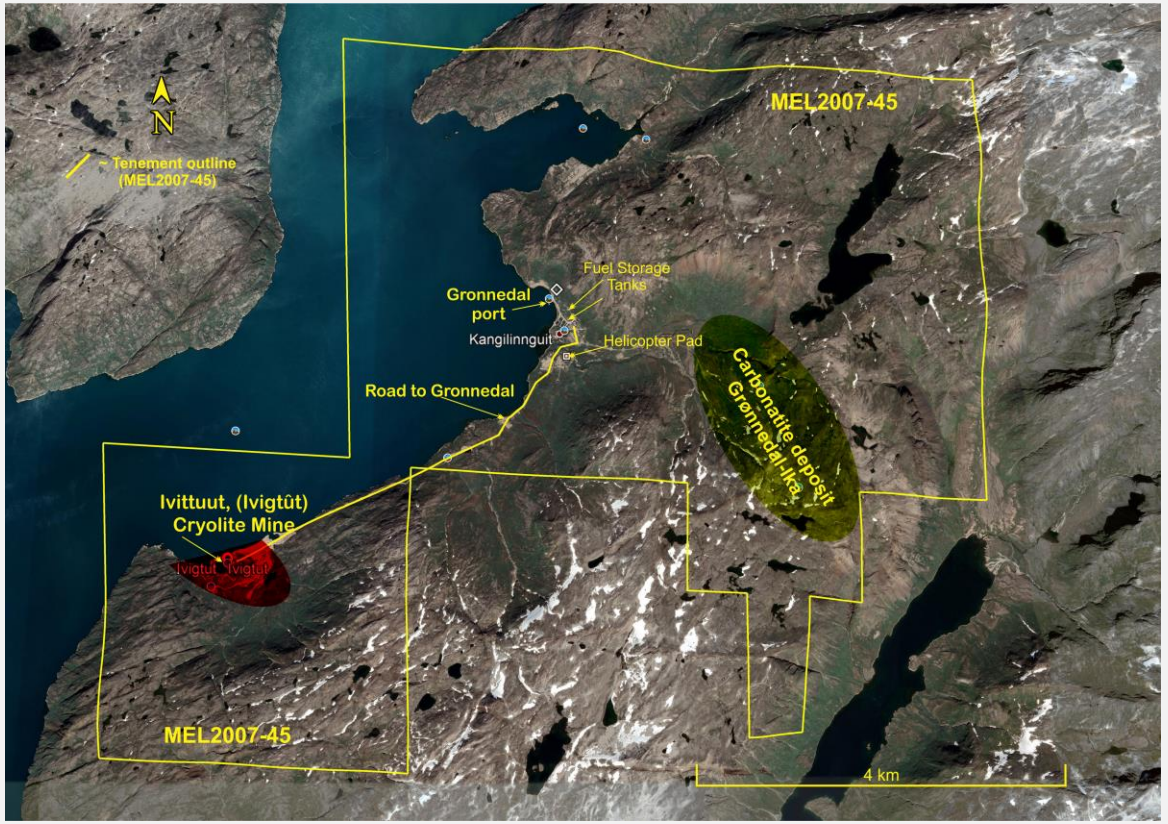
Ivittuut's development opportunities:

1. **Industrial minerals in existing Ivittuut pit:**
   - Cryolite
   - Fluorite
   - High Silica Grade Quartz
   - Zinc and Iron

2. **REE mineralisation identified:**
   - In and surrounding Ivittuut pit
   - At nearby Grønnedal-Ika prospect. REE is increasing in demand due to new technology uses (electric vehicles, electronics)

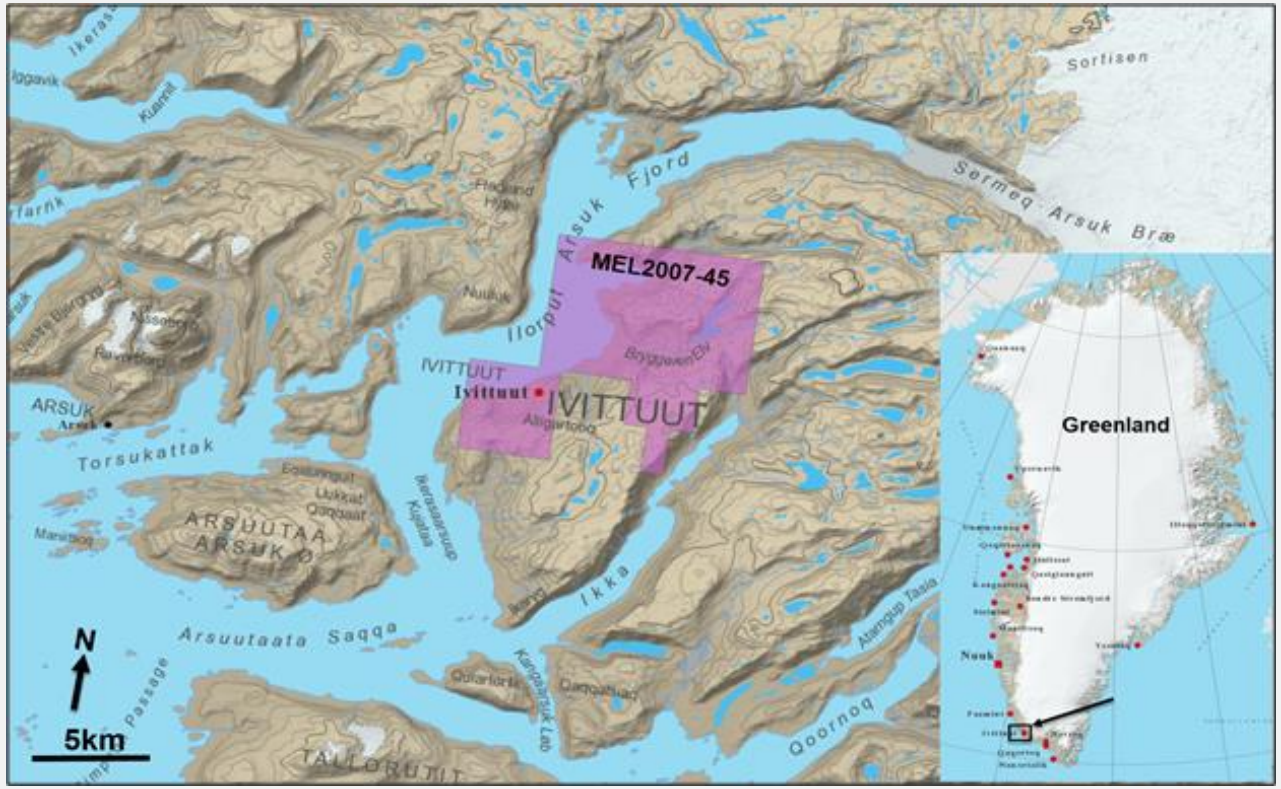
3. **Carbonatite deposit at Grønnedal-Ika:**
   - Carbonate rock used to neutralise acid mine and process water produced by miners
   - Associated with REE

4. **Ivittuut mine process tailings and remnant stockpiles - short-term cashflow potential**



NEW LIFE FOR HISTORIC CRYOLITE MINE

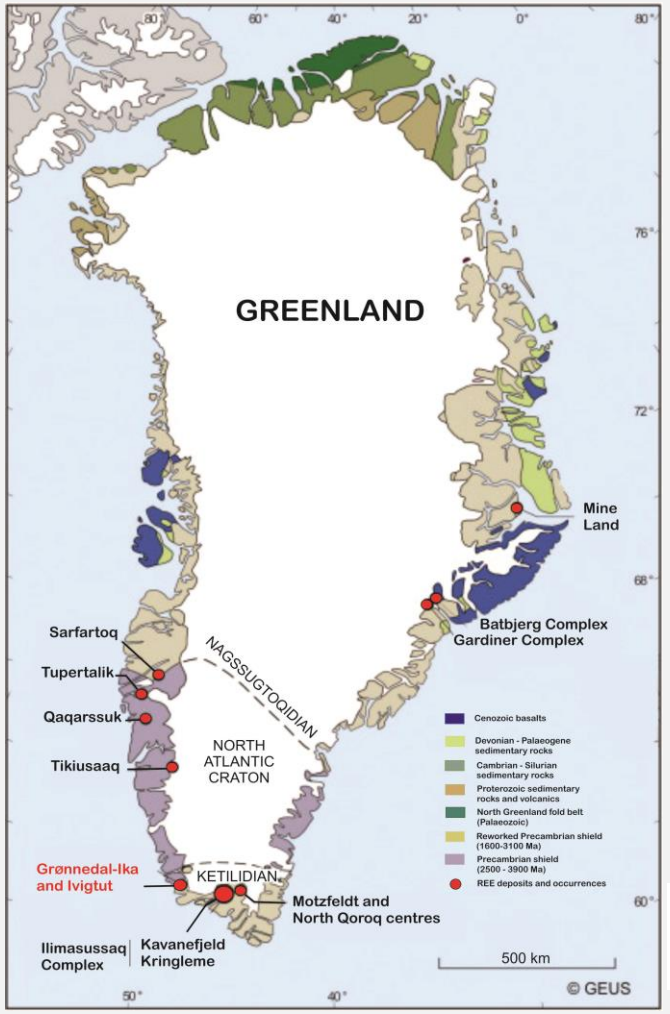
- Ivittuut was the world's **largest and only cryolite mine**
- Cryolite is a **rare mineral** used in aluminium production
- Ivittuut produced **3.8 million tonnes of cryolite** during 120-year mining history, ceasing in 1987 (Bondam, J, 1991)
- Eclipse has identified **high-grade cryolite-fluorite** zones within and beneath Ivittuut pit using 3D modelling
- Fluorite zone at Ivittuut is known to contain **rare earth element (REE) mineralisation**
- Exploration Targets for **cryolite, fluorite, iron, zinc and quartz** defined for the Ivittuut Open Pit
- Potential to **process tailings and remnant stockpiles** to extract cryolite, fluorite and REE – **short-term cashflow opportunities**
- Tailings & mined remnants to be assessed to determine volume and content of Cryolite and Fluorite as a possible resource



(J Bondham, Open file Series 91/4, May 1991)

EXPLORATION POTENTIAL AT GRØNNEDAL-IKA

- Grønnedal-Ika **carbonatite** 10km from the Ivittuut mine, contains a **source of carbonate rock and rare earth elements (REE)**
- Carbonate rock is suitable for **neutralising acid mine and process water** – needed for Greenland's mining industry
- Eclipse could **ship carbonate rock** from existing Grønnedal port
- Carbonatite is associated with REE mineralisation – **Grønnedal-Ika is a prime REE target** in Greenland
- Greenland hosts **up to a quarter** of the world's rare earth minerals*
- Grønnedal-Ika carbonatite complex has potential for at least two types of deposits:
  - REE mineralisation occurs throughout the complex, especially in the late-stage veins where it occurs in various strontium enriched, REE bearing mineralisation.
  - Carbonatite body is 2km by 1km and can offer potentially large tonnages of carbonate rock.



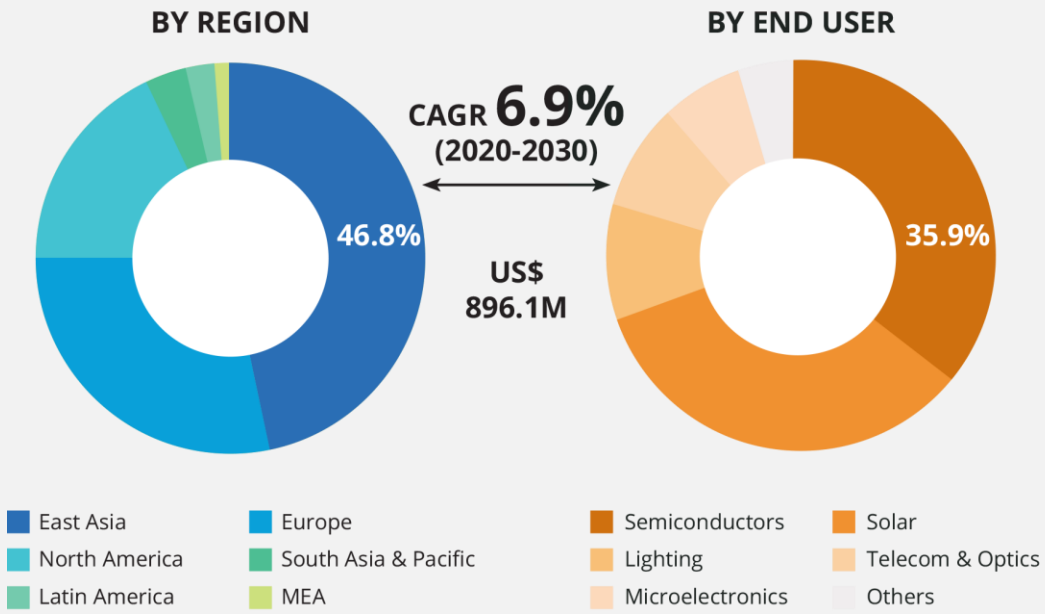
Greenland REE deposits

* https://www.npr.org/2019/11/24/781598549/greenland-is-not-for-sale-but-it-has-the-rare-earth-minerals-america-wants

HIGH-GRADE QUARTZ OPPORTUNITY AS DEMAND GROWS

- EPM has demonstrated **high silica grade quartz mineralisation at Ivittuut** below the historic open pit.
- High silica grade quartz and high grade quartz sand is **essential for production** of photovoltaic (PV) products, in high-end electronics and semiconductors
- **End uses** include silicon, quartz glass, optical fibre, solar cells and integrated circuit boards
- High-grade is characterised by **high grades of silica (SiO_2)** and low metal contaminants. Suitable for production of **HPQ (high purity quartz).**
- HPQ market is expected to **grow at a CAGR of 6.9%** from $671.62M in 2019 to **$1.23Bn by 2027**
- China has **increasing demand for high-grade quartz**, but is largely dependent on imports

HIGH PURITY QUARTZ (HPQ) MARKET VALUE SHARE (%), 2020



KEY DRIVER: Growing Demand for Semiconductor ICs, Particularly Due to Rising Penetration of Internet of Things (IoT), Fueling Demand for HPQ

Source: Persistence Market Research *Note: Market shares not depicted as per actual scale, only for illustration purposes.*

IVITTUUT EXPLORATION TARGETS

POTENTIAL ECONOMIC RESOURCES

Range	Mineral Zone Domain	Cut Off (%)	Tonnage (t)	Grade (%)
Exploration Target - Lower	Cryolite in Domain 1	0	870,300	16.0
Exploration Target - Upper	Cryolite in Domain 1	0	916,200	17.7
Exploration Target - Lower	Cryolite in Domain 1	10	680,900	18.4
Exploration Target - Upper	Cryolite in Domain 1	10	716,800	20.4
Exploration Target - Lower	Cryolite in Domain 1	20	268,400	25.8
Exploration Target - Upper	Cryolite in Domain 1	20	282,500	28.6
Exploration Target - Lower	Fluorite in Domain 1	10	163,300	18.3
Exploration Target - Upper	Fluorite in Domain 1	10	171,900	20.3
Exploration Target - Lower	Fluorite in Domain 1	20	55,900	39.6
Exploration Target - Upper	Fluorite in Domain 1	20	58,800	43.8
Exploration Target - Lower	Fe in Domain 2	0	924,200	27.5
Exploration Target - Upper	Fe in Domain 2	0	966,900	30.3
Exploration Target - Lower	Zn in Domain 2	0	63,600	1.5
Exploration Target - Upper	Zn in Domain 2	0	66,600	1.7

Range	Mineral Zone	Domain No.	Cut Off %	Quartz Tonnage (t)	Quartz Grade Lower %	Quartz Grade Upper %
Exploration Target - Lower	Quartz	3	0	5,700,000	90.0	95.0
Exploration Target - Upper	Quartz	3	0	5,940,000	90.0	95.0

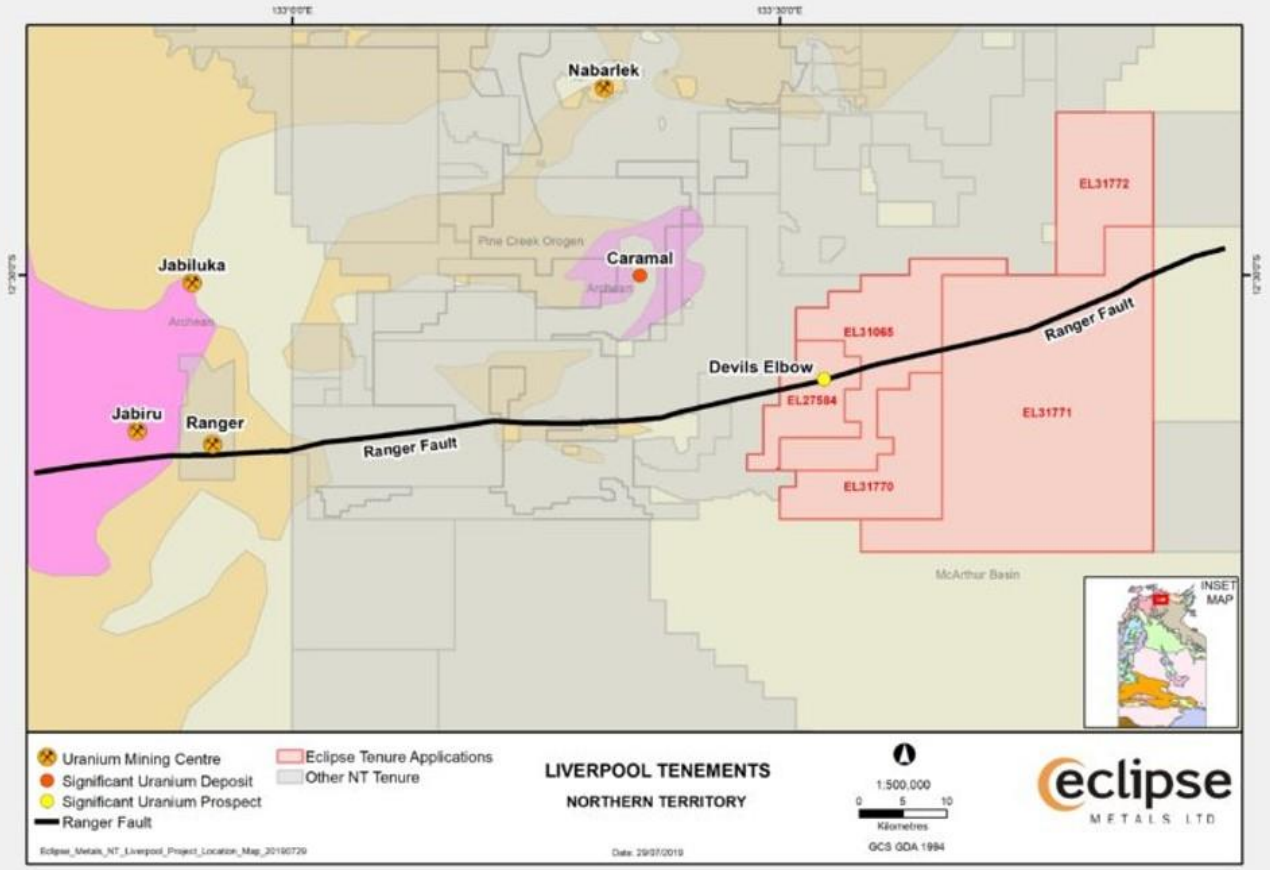
The potential quantity and grade of the Exploration Targets are conceptual in nature. There has been insufficient exploration work conducted to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource. The Exploration Target has been prepared based on actual exploration results described in this report including historical drilling data and geological modelling.

LIVERPOOL URANIUM PROJECT, NORTHERN TERRITORY

HIGH GRADE URANIUM-VANADIUM-PALADIUM-GOLD PROSPECTS

DEVIL'S ELBOW / LIVERPOOL PROJECT

- EL27584 is prospective for **uranium, vanadium, gold and palladium**
- **Potential to grow project area** with additional EL applications ELA31065, ELA's31770 to 31772.
- Exploration potential along Ranger Fault – **radiometric anomalies** east and south-east of Devil's Elbow
- Devil's Elbow prospects have **strong similarities** to Jabiluka uranium/gold mine, 75km west of Devil's Elbow
- Eclipse focus on **Devil's Elbow, Terrace and Ferricrete** uranium prospects
- Eclipse has identified **17 drill target zones** through analysis of geophysical data
- Negotiations underway with Traditional Owners for an **exploration agreement**

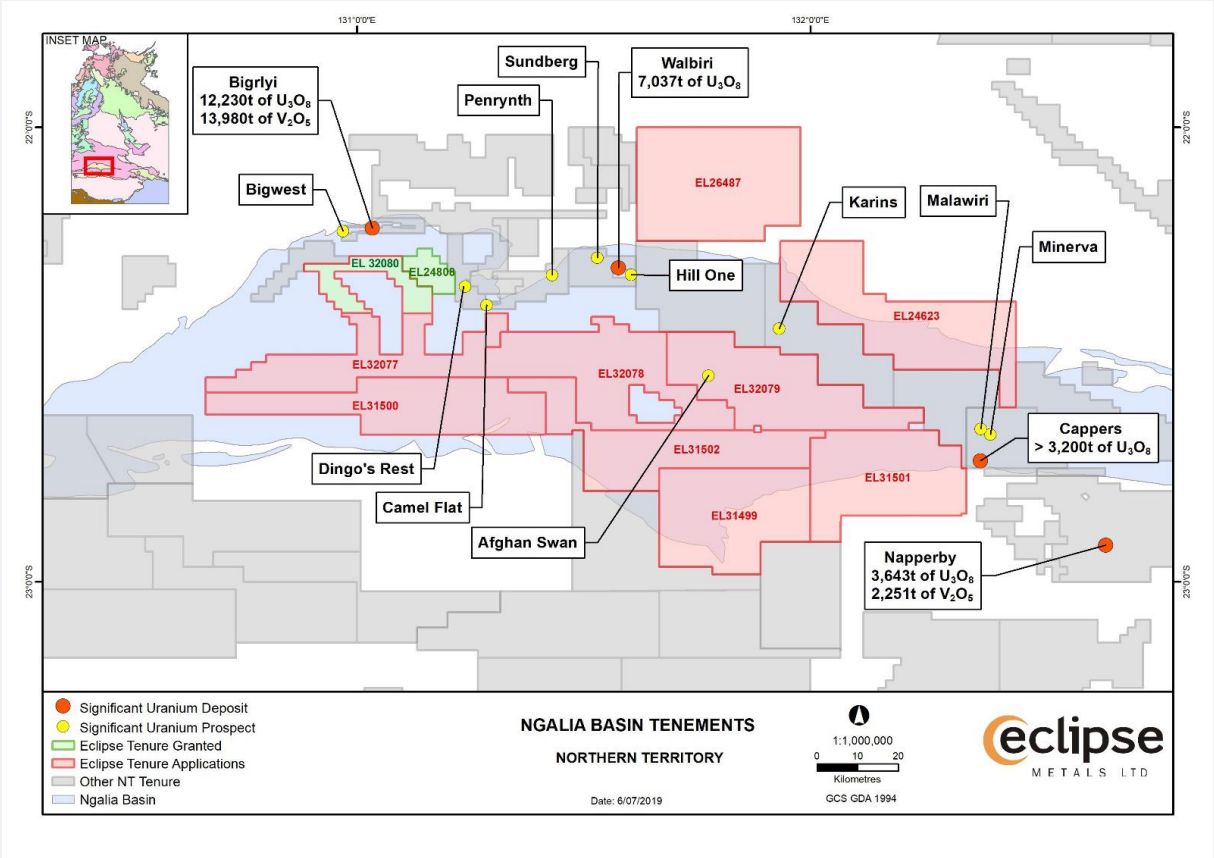


NGALIA BASIN PROSPECTS, NORTHERN TERRITORY

PROSPECTIVE FOR URANIUM, VANADIUM AND BASE METALS

NGALIA BASIN URANIUM / VANADIUM PROSPECTS

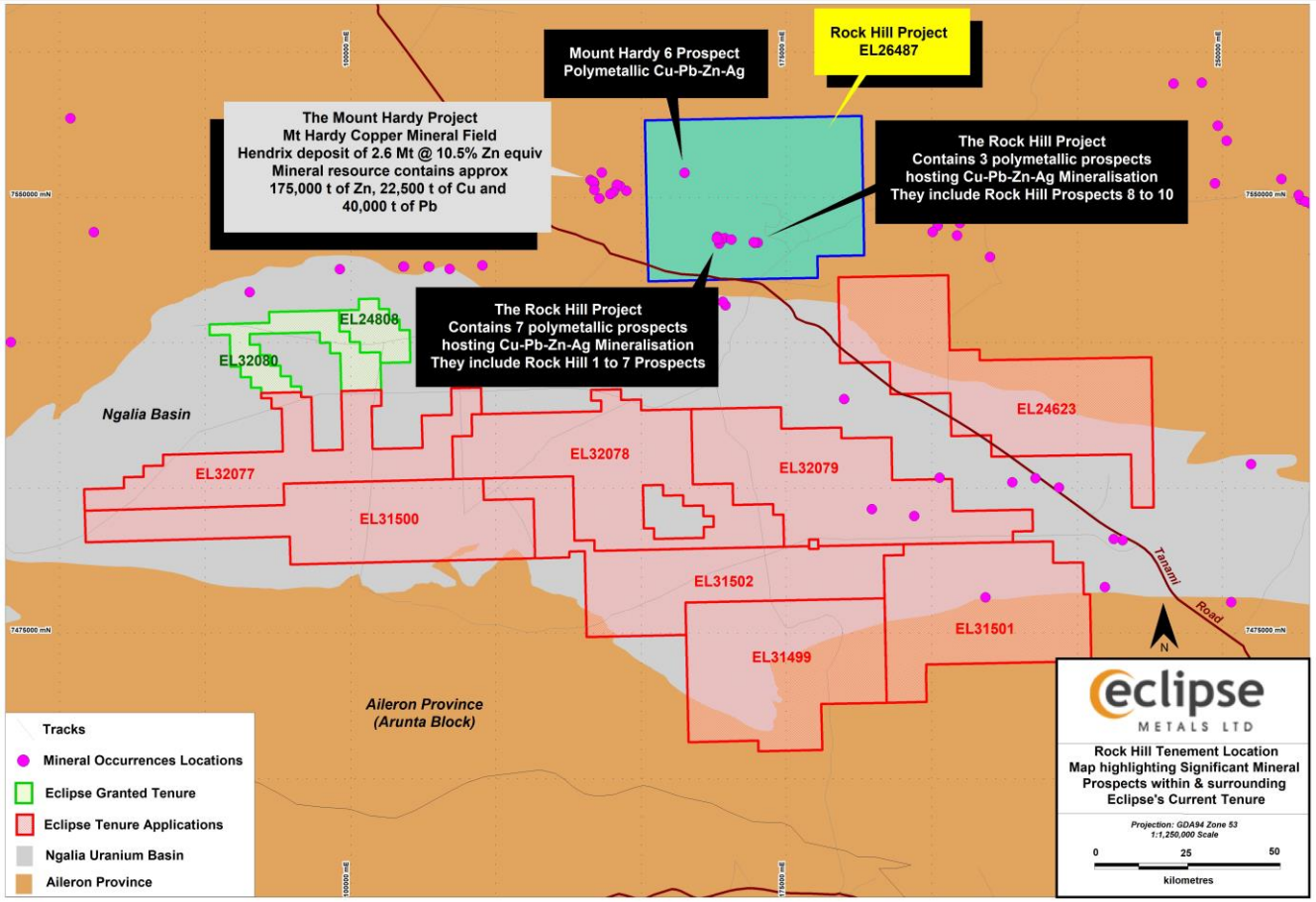
- Ngalia Basin area is 300km west-northwest of Alice Springs
- Prospective for sandstone **paleochannel-style uranium and vanadium mineralisation**
- Ngalia Basin hosts uranium/vanadium deposits including:
  - **Bigrlyi Deposit** (7.5Mt @ 0.13% U_3O_8 and 0.12% V_2O_5)*
  - **Capper Deposit** (22Mt @ 0.015% U_3O_8)*
  - **Napperby Project** (9.54Mt @ 0.038% U_3O_8)*
- Ngalia Basin margins also prospective for **base metal mineralisation**
- Eclipse is negotiating with Traditional Owners for access to land for further exploration



* JORC 2012 compliant resource, source Mindat.org

ROCK HILL COPPER PROSPECT

- Review of historic drill data from Rock Hill has defined broad **high-grade copper-silver mineralisation**
- Historic results include (refer ASX release 20/4/21):
  - **3.0m @ 1,420g/t Ag** from 6.1m and
  - **11.6m @ 0.43% Cu** from 58.2m
  - Including **0.3m @ 4.6% Cu and 10g/t Ag**
  - including **0.3m @ 10.20% Cu, 27 g/t Ag**
  - Potential mineralised corridor **extends for >10km**
- Limited drill testing completed to date – **10.2km of strike remains to be explored**
- Eclipse planning **airborne EM survey and RC drilling program** over strongly mineralised zones
- **Infill diamond drilling** to follow dependent on results

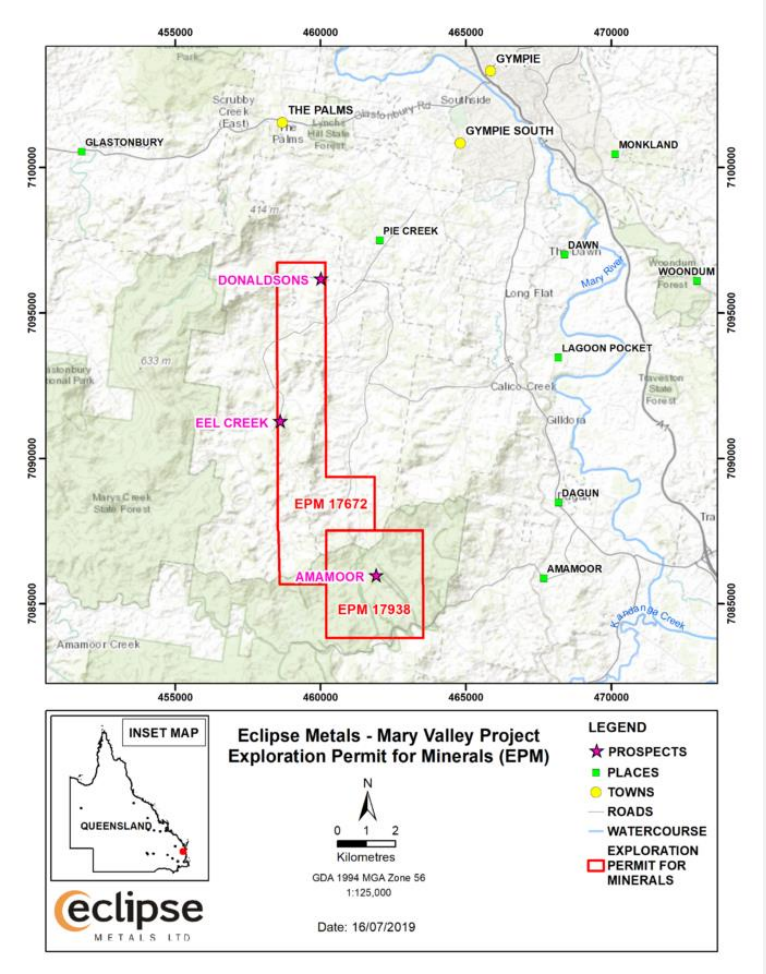


MARY VALLEY MANGANESE PROJECT, QUEENSLAND

HIGH-GRADE MANGANESE WITH BULK MINING POTENTIAL

MARY VALLEY – MANGANESE POTENTIAL

- EPM holds **35km² of manganese exploration terrain** in Qld's Mary Valley district, southwest of Gympie
- Mary Valley hosts **historic mines** including Amamoor No.1, which produced nearly 20,000t manganese at 51% Mn
- Previous drill results include:
  - 2018 drilling: **3.2M @ 59.8% MnO_2**
  - 2020 shallow drilling: **3.5M @ 24.9% MnO_2 from surface**
- Geological indications for large low-grade deposit with high grade sections.
- Bulk mining at Mary Valley deposit could produce mill-feed for a beneficiation plant to **produce a marketable, high-grade manganese product**
- Manganese is **in demand** for the **lithium-ion battery market**



6-12 MONTH PLANNED NEWSFLOW

Ivittuut, Greenland

- Resource upgrade
- Mining licence application
- Environmental assessment and pit water testing and dewatering design
- PFS targeted for 2021/22

Ngalia Basin, NT

- Negotiations with Traditional Owners (first Q 2021)
- Vanadium and uranium drilling expected to commence (late 2021)

Liverpool, NT

- Ground geophysical surveys

Mary Valley, QLD

- Bulk sampling planned

SUMMARY

Potential for **near-term production** at Ivittuut – processing tailings and low-grade stockpiles for cryolite, fluorite and REE

Ivittuut has potential for a **large, highly profitable** industrial mineral/REE operation

Ivittuut is **close to infrastructure** – port, roads, electricity, accommodation

Exploration potential across Australian projects – **manganese, uranium, vanadium, base metals**

Mining friendly jurisdictions – Greenland and Australia

Experienced Board and Management with **proven track record of success**

Detailed planning for **exploration and development for 2021-22**

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