



Powering North America:

Acquisition of Strategic Lithium Projects Northwest Territories, Canada

Investor Presentation | 12 March 2024

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Competent Person Statement

The information in this announcement that relates to Exploration Results is based on information compiled by Dr Gavin England, a Competent Person who is a member of the Australian Institute of Mining and Metallurgy and the Australian Institute of Geosciences. Dr England is the Managing Director of Narryer Minerals Limited. Dr England declares in accordance with the transparency principles of the JORC Code that he has a personal financial interest in Narryer Mineral Limited. Dr England has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity undertaken to qualify as a Competent Person as defined in the 2012 Edition of the Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Dr England has consented to the inclusion in this Public Report of the matters based on his information in the form and context in which it appears.

Canada Lithium Project Acquisition

Targeting North American Battery Supply Chains

Big Hill + Fran

Northwest Territories, Canada

- ▶ Narryer see the future of hard rock lithium exploration being in the Archaean cratons of northern Canada
- ▶ Company has acquired a 70% interest in the Big Hill and Fran projects located in the Yellowknife Lithium Province, Northwest Territories, Canada¹
- ▶ Projects contains mapped LCT pegmatites with known lithium / tantalum mineralisation
- ▶ **Big Hill Project** contains newly discovered spodumene-bearing pegmatites, with initial channel sampling of **5m @ 1.2 % Li_2O^2** . Drill target identified for initial program scheduled mid 2024.
- ▶ **Big Hill lithium mineralisation is along strike** from Li-FT Power's (TSXV:LIFT, Market Cap ~CAD\$170m) BIG lithium project, with mineralisation evident to the claim boundary²
- ▶ **Fran Project** shows the highly fractionated Riber Pegmatite, with historic trench sampling returning high grade tantalum of up to **0.57 % Ta_2O_5^3** and recent Li grab samples to **3.9% Li_2O**
- ▶ Projects **less than 30km from Yellowknife**, with excellent existing infrastructure

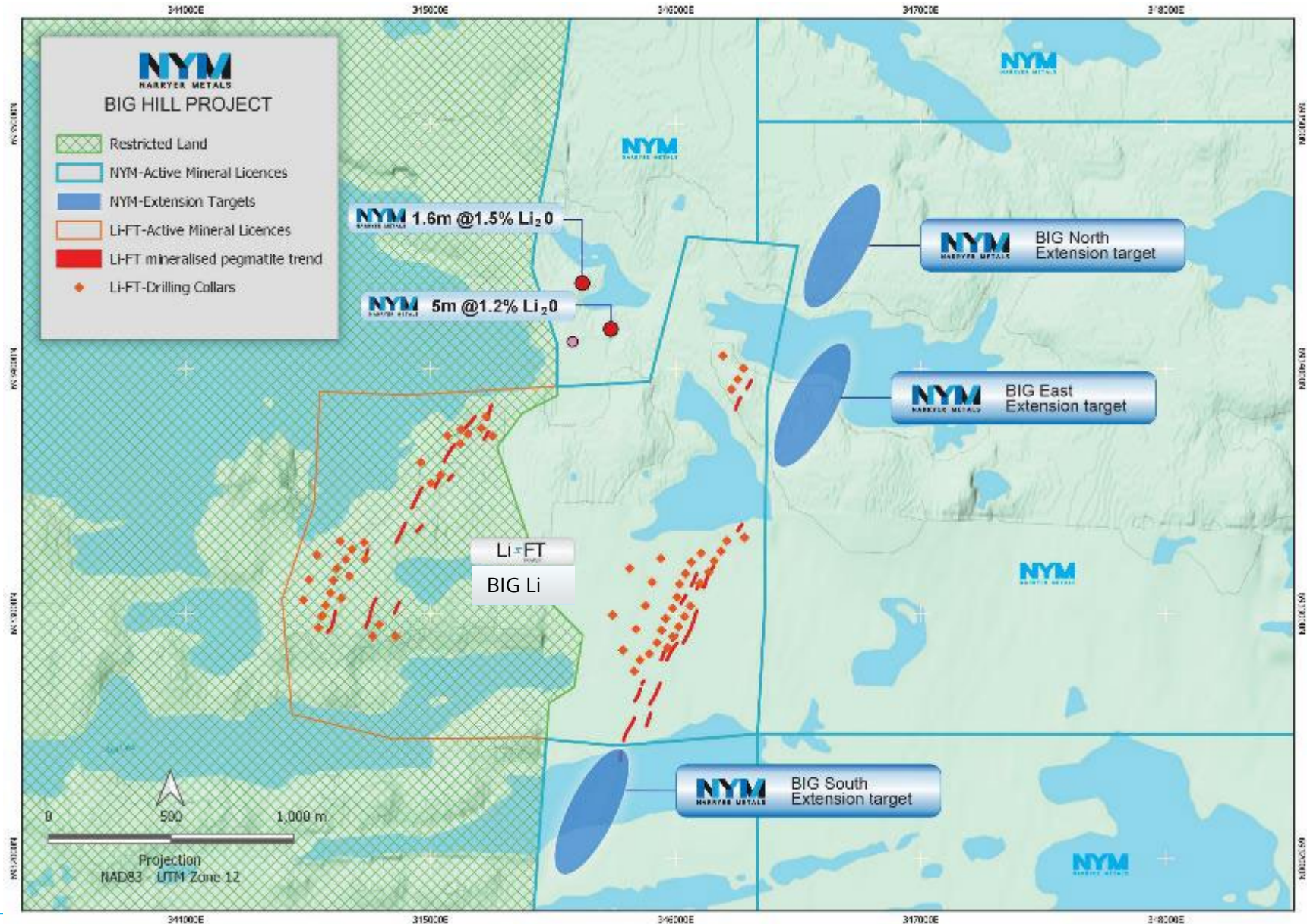
1,000 km

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¹ Transaction is subject to shareholder approval

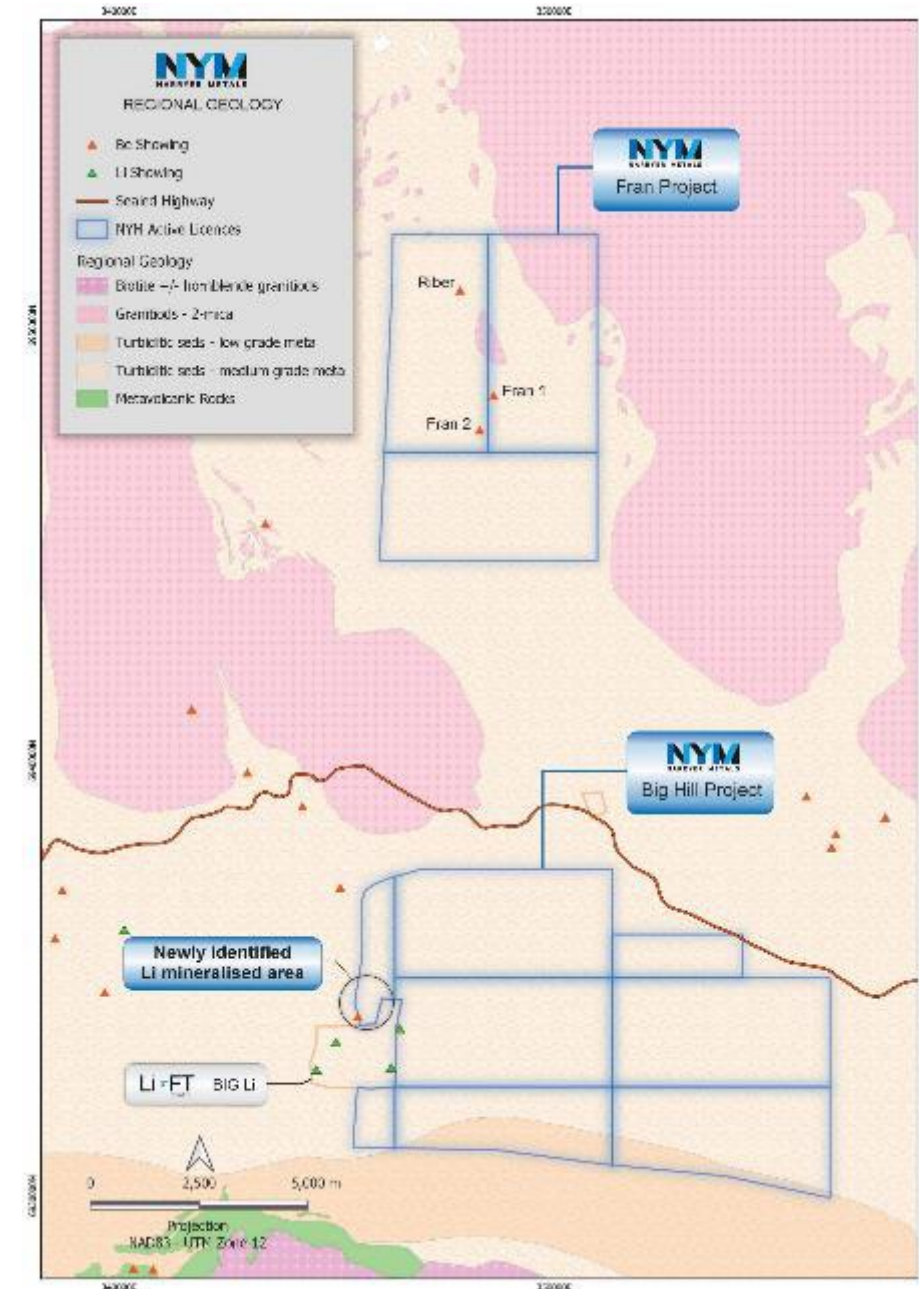
² Li-FT Power TSX-V announcement 29 January 2024; ³ Narryer Metals ASX announcement 12 March 2024; ³ Nickerson, D. 1999· Geological Report (Sampling and Mineralogical Evaluation), Riper Claim (F 66510) Prelude Lake Area, NWT.

Big Hill mineralisation identified along strike to Li-FT Power's BIG Prospect



Fran and Big Hill Project Areas Northwest Territories

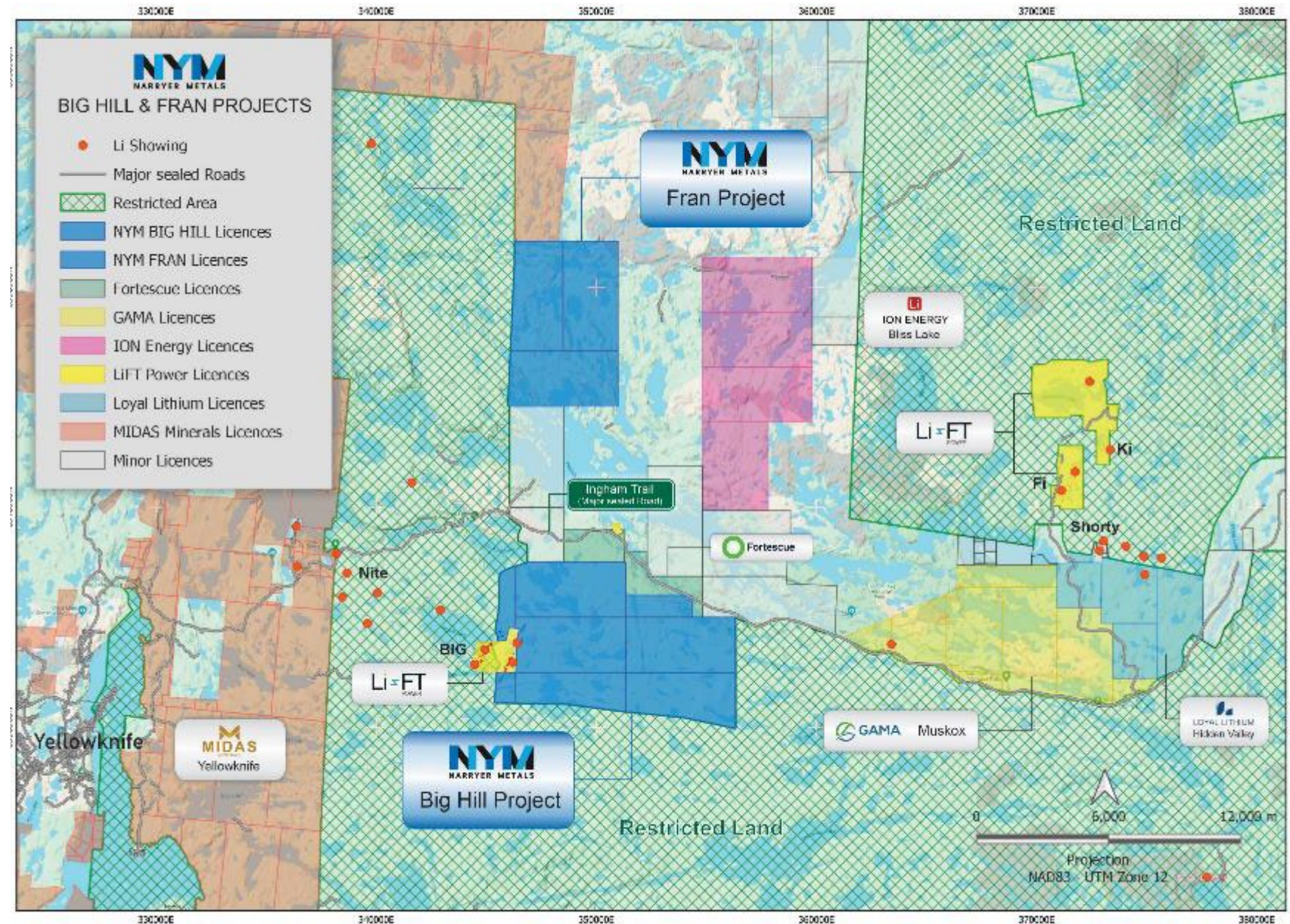
- ▶ Mineral exploration package over two project areas -
 - Big Hill (62km²)
 - Fran (36km²)
- ▶ Archean Slave Craton near Yellowknife with > **50 lithium occurrences nearby**
- ▶ Both Projects contain evidence of LCT pegmatites, hosted in meta-sediments, within a 3-6km buffer zone to 2-mica granites – **“the Goldilocks zone for Li exploration”**
- ▶ Project has excellent accessibility, with initial 2023 exploration identifying numerous targets to follow up in 2024 field season, starting **May 2024**



A Lithium Hotspot

Recent Lithium exploration activity in the Slave Craton

- ▶ **Li-FT Power**
(TSXV:LFF)
- ▶ **Loyal Lithium**
(ASX:LLI)
- ▶ **Midas Resources**
(ASX:MM1)
- ▶ **Gama Exploration**
(CSE:GAMA)
- ▶ **North Arrow Minerals**
(TSXV:NAR)
- ▶ **Trinex Minerals**
(ASX:TX3)



Fran and Big Hill

Location and Infrastructure



- ▶ Well serviced by established infrastructure
- ▶ Yellowknife, the capitol of Northwest Territories is located a 30-minute drive along a state-maintained highway (Ingham Trail) from the Big Hill project
- ▶ Yellowknife airport sustains regular commercial flights from Vancouver, Calgary and Edmonton.
- ▶ Northwest Territories has a long mining history, with diamond (e.g. Diavik, Rio Tinto), gold, REE and uranium
- ▶ Two options exist for export of bulk materials from Yellowknife –
 - Road Haulage ~480km to the Hay Point rail terminal
 - Barging ~200km to the Hay Point rail terminal
- ▶ The rail network connects to export facilities in British Columbia and USA
- ▶ Established infrastructure provides significant advantages

Big Hill Project - Overview

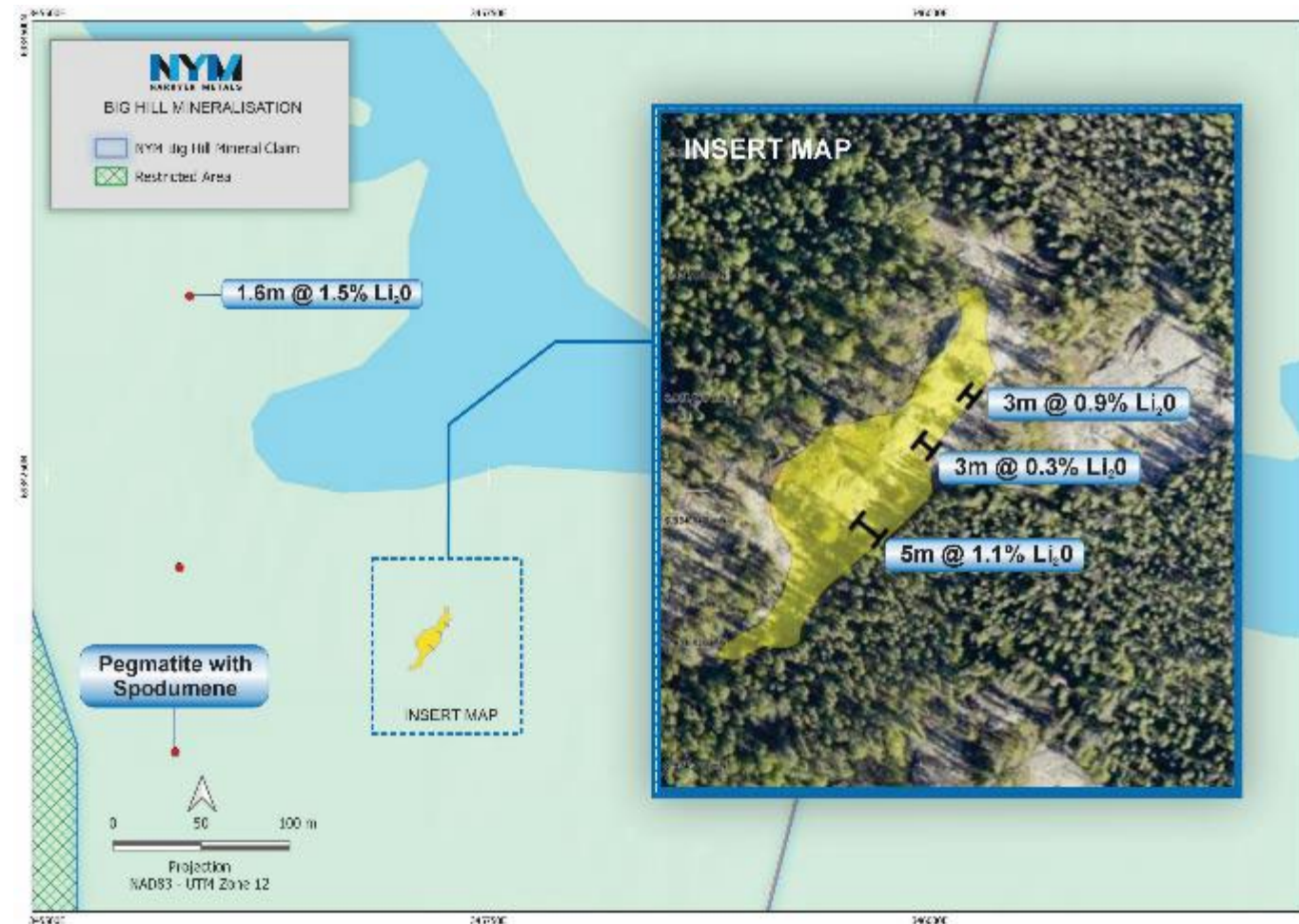
- ▶ Known occurrences of spodumene-hosted pegmatites
- ▶ Claims are located immediately to the east and partially surround Li-FT Power's (TSXV:LIFT) BIG lithium project
- ▶ Li-FT Power's BIG prospect consist of three clusters of pegmatite swarms, ~2 km combined strike length of 20-30 m average width, grading 1.2% to 1.7% Li₂O on a 2.9 km² claim area¹ (see slide 4)
- ▶ Li-FT has drilled over 8,000m at BIG, with 3,000m program currently underway²
- ▶ Geology suggest Big Hill has potential extensions of the BIG pegmatite intrusions, as well as additional new targets
- ▶ The area directly to the west of Big Hill falls under an unresolved First Nation land claim and is excluded from staking
- ▶ NYM has the tenure to provide adequate footprint for future development



Spodumene (identifiable as cleaved, elongate white mineral) in pegmatite outcrop from sample location BHDS-23, Big Hill Project area. This area was channel sampled in the field study (at location BHDS-23-C01) and contained up to 2.6% Li₂O over a metre³

Big Hill - Exploration

- ▶ First pass exploration in June 2023¹, included:
 - Ground truthing of satellite imagery targets and first pass mapping of structures
 - Handheld LIBS sampling
 - Channel Sampling
- ▶ Newly identified spodumene-bearing pegmatite discovered near Li-FT's BIG claim boundary
- ▶ Mineralisation was traced over the eastern margin of an exposed dyke for 70m, before entering cover
- ▶ Dyke was ~12m wide, striking NE (in same direction as BIG mineralisation)
- ▶ Initial channel sample assays, included grades of up to **1.16% Li₂O over 5m**; including **2.57% Li₂O over 1m** at sample site BHDS - 023, and grades up to **2.43% Li₂O over 1 m** at sample site BHRC-018.
- ▶ Additional spodumene bearing dykes were discovered in the area and are yet to be sampled
- ▶ Fieldwork planned from May 2024 including maiden drilling program



¹ Narryer Metals ASX announcement 12 March 2024

Big Hill Project Channel Sampling



2.57% Li_2O over 1m
BHDS-023

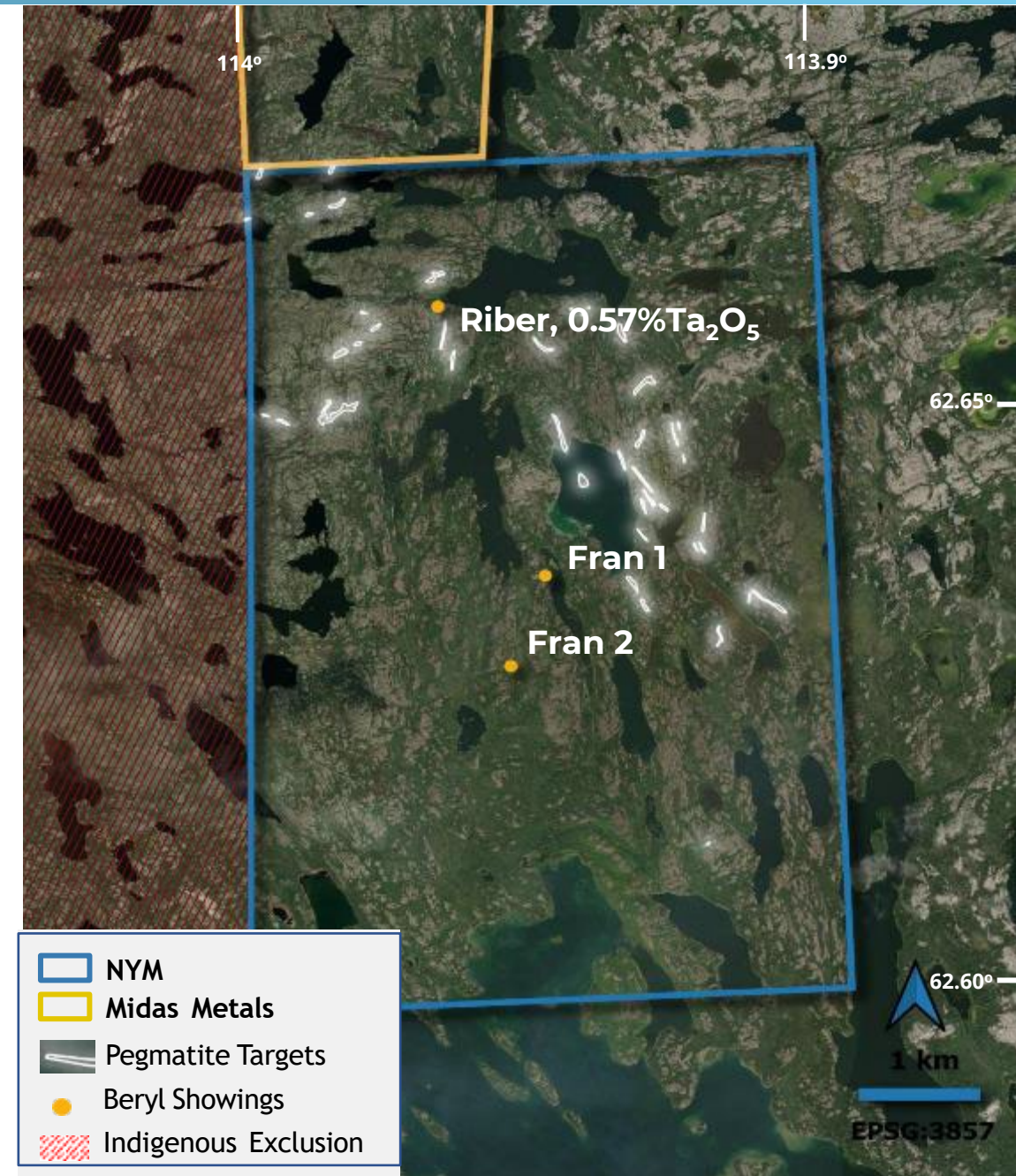
Fran Project - Overview

- ▶ Fran (3 Claims) is located approximately 10km north of Big Hill and covers an area of approximately 36km²
- ▶ Known highly fractionated pegmatite systems, with beryl and rare earth occurrences identified at Riber, Fran 1 and Fran 2
- ▶ Exposed Riber pegmatite is 13m wide, 50m in length, with other pegmatites in the same orientation also present
- ▶ Historically investigated for Be^{1,2}, gem quality tourmaline (Indicolite), with identified REE / Li minerals including:
 - Amblygonite – Montebrasite (Lithium)
 - Triphylite – Lepidolite (Lithium)
 - Beryl (Beryllium)
 - Columbite-Tantalite (REE, Tantalum)
- ▶ A 1999 Tantalum³ focused exploration program identified extremely high values from trench samples up to -
 - **0.57% Ta₂O₅, 0.53% Nb₂O₅, 0.09% Rb, 0.02% Cs**
- ▶ No assays were completed to quantify lithium content at the time

¹Rowe, R. 1952. Pegmatitic Mineral Deposits of The Yellowknife-Beaulieu Region, District of Mackenzie, Northwest Territories. Canada. Department of Mines and Technical Surveys, Geological Survey of Canada. Paper 52-8

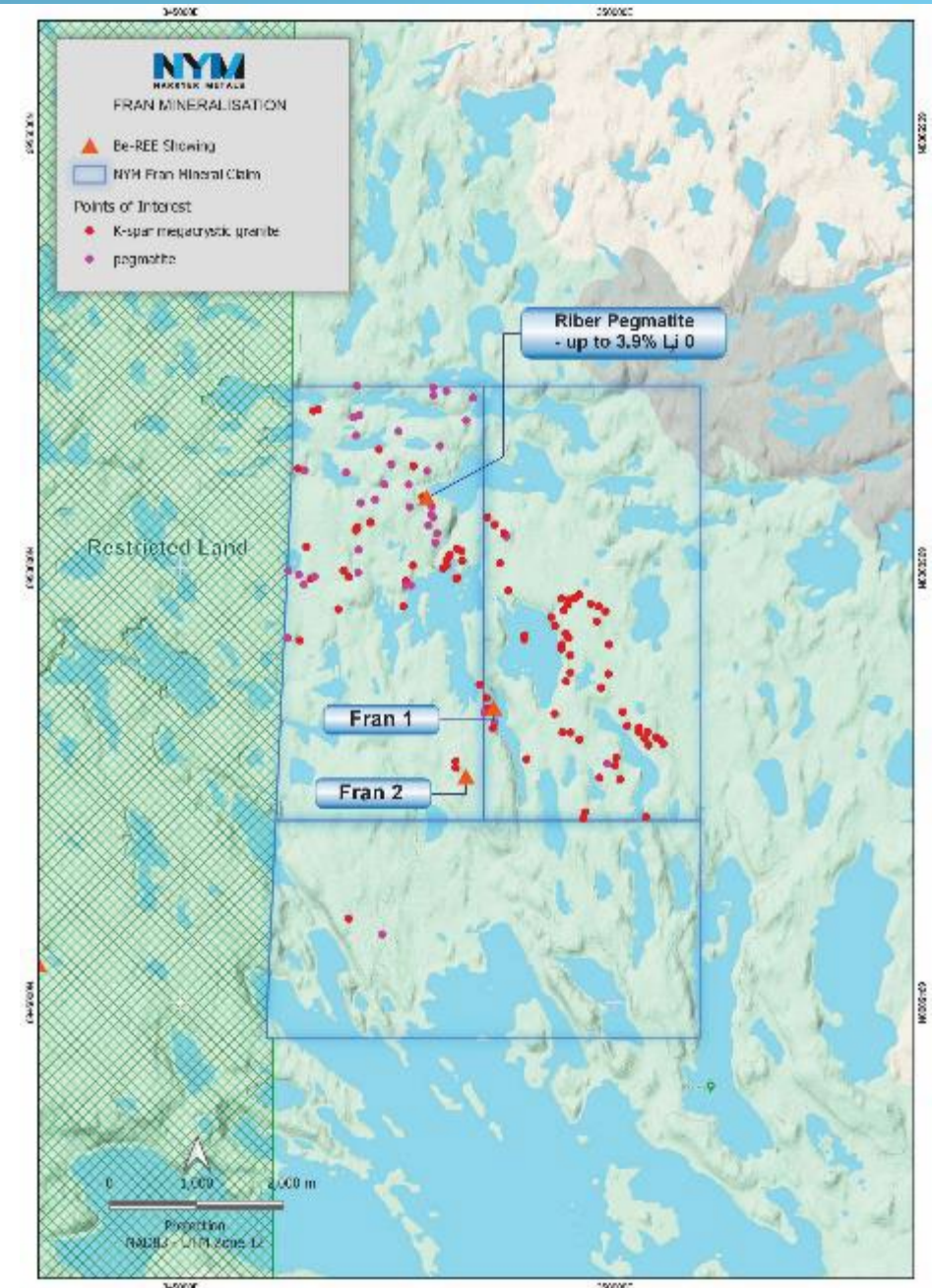
²Mulligan, R. 1968. Geology of Canadian Beryllium Deposits. Geological Survey of Canada. Economic Geology Report No. 23

³Nickerson, D. 1999- Geological Report (Sampling and Mineralogical Evaluation), Riper Claim (F 66510) Prelude Lake Area, NWT.



Fran Project - Exploration

- ▶ First pass exploration in June 2023 identified lithium mineralisation¹
- ▶ The Riber pegmatite contained grab samples of up to **3.95% Li₂O**. Petrology is required to identify Li mineral assemblage.
- ▶ Channel sampling completed over two dykes showed encouraging Li assays (Li and Be only) included:
 - 0.13% Li₂O over 2 m (Riber Dyke)
 - 0.22% Li₂O over 1 m (Dyke 500m west of Riber)
- ▶ Exploration will focus on the highly fractionated Riber pegmatites to locate the “spodumene zone” of the LCT system, as well as investigate potential for high grade Tantalum mineralisation
- ▶ Initial work has identified 40 pegmatites, 12 two mica granites and 89 pegmatoidal granites on the property. The fractionation / mineralisation of these requires further investigation.



Acquisition Details



Exclusivity fee

A\$50,000 cash payment and issue of 2.5 million NYM shares, 2.5 million options excisable at \$0.10 on or before 31 December 2026

Initial Consideration for 70 % of Project

A\$50,000 cash payment and issue of 12.5 million NYM shares

1.5% net smelter return royalty (NSR) from revenue generated from the production of lithium and 2.5% from revenue generated from production of minerals other than lithium

Deferred Consideration

7.5 million shares on trenching or drill results returning a > 5m at 1.0% Li₂O¹ on at least one Project by 31 March 2026

10 million Shares on delivery of 3 drill intersections returning at least 10m at 1.0% Li₂O² or higher by 31 March 2027

10 million Shares following the delineation of a 5Mt JORC compliant Resource at no less than a grade of 0.9% Li₂O by 31 March 2029

¹ Narryer Metals ASX announcement 12 March 2024

Capital Structure Post Acquisition

Current Shares on Issue	65,056,007
Vendor Exclusivity Shares (Issued 12 March 2024)	2,500,000
Vendor Initial Consideration Shares *	12,500,000
Tranche 1 Placement Shares	11,264,018
Tranche 2 Placement Shares *	14,985,982
Shares on Issue Post Transaction	106,306,007
Deferred Consideration Shares **	27,500,000
Exclusivity Options (@ \$0.10, 31 Dec 2026)	2,500,000
Advisor Options (\$0.10, 3 years)*	1,000,000
Existing Share Options (@ \$0.30)	12,000,000
Existing Board/Management Performance Rights	5,210,000
* Assumes NYM Shareholders approve transaction	
** Issued subject to achievement of project related performance hurdles. See ASX announcement 12 March 2024 for further details	

Other Canadian Projects



7 additional lithium projects in Canada

- ▶ **7 Projects covering 270 km²** located in the prospective James Bay, Abitibi and NW Ontario regions, Superior Craton
- ▶ **Company identifies key exploration field focus in Quebec and Ontario in 2024 are -**
 - **Walrus Island, James Bay** - Project (14km²) in James Bay region, Quebec with identified spodumene- lepidolite pegmatites in the field#. After stakeholder engagement and permitting, surface sampling to commence.
 - **Hailstone, NW Ontario** - 40km from **Green Technology Metals Root Li Deposit** (ASX: GT1). Fractionation studies of LCT pegmatites identifies new target area to follow up in field.
 - Project generation identifies prospective **Zircon Lake** area (90km²) in the Quetico Li District, **NW Ontario**. Nearby identified LCT pegmatites. District contains **RockTech's Georgia Lake and Imagine Lithium Jackpot Li Deposits**. Field access by major roads.
 - Project generation also identifies **Sapawe Project** (60km²) along the major Quetico Fault zone (Quetico Sub province boundary), in **NW Ontario**. Located in region containing LCT pegmatites. Active Li exploration underway in area. Field access along major highway



Helicopter exploration at Hailstone



Optimising Australian Portfolio for maximum value



Work continues at NYM's Australian Critical Minerals Projects

Narryer Ni-Au Project

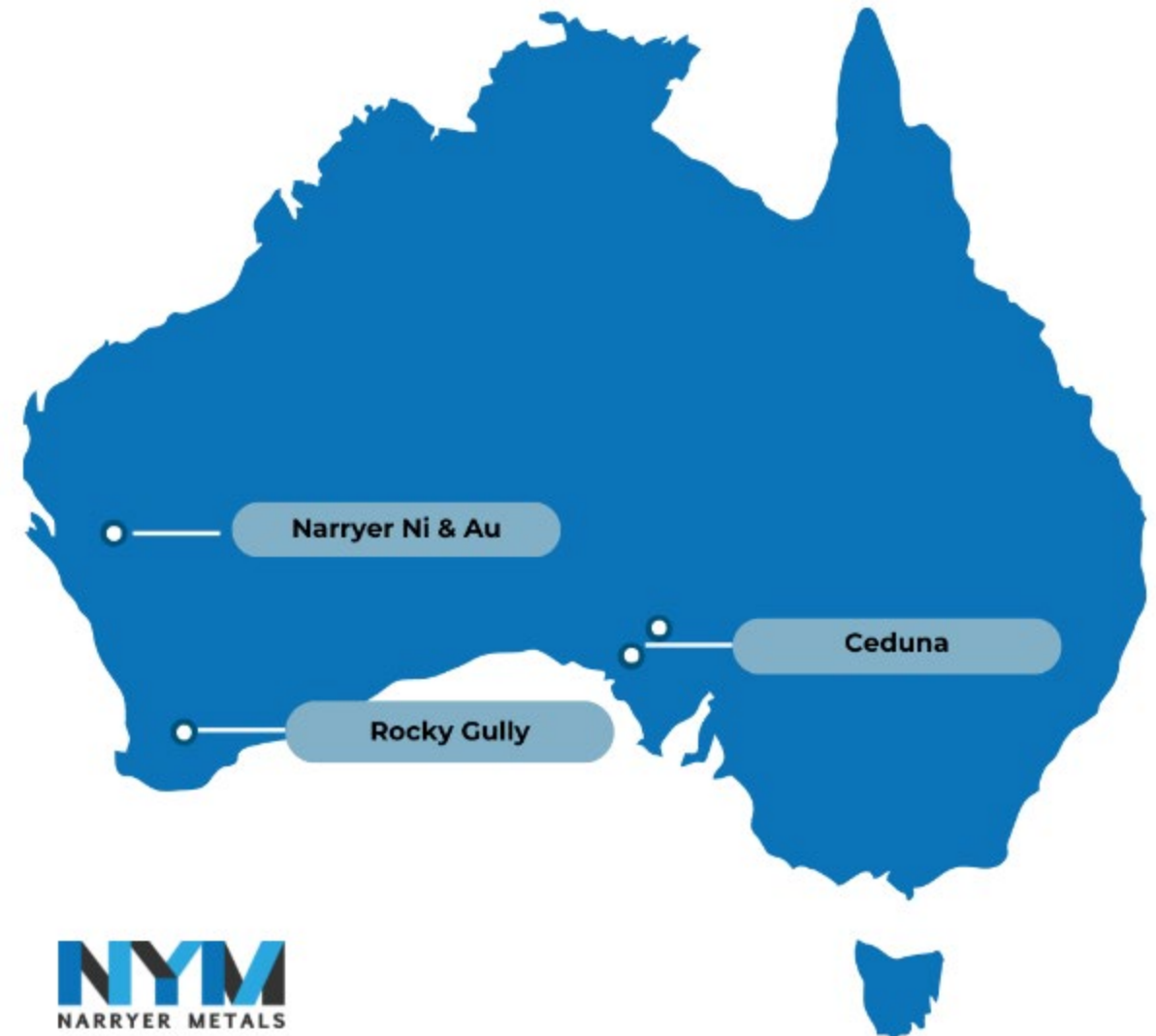
- Further fieldwork for 2024

Rocky Gully

- Carbonatite target
- Aircore, RC & diamond drilling (EIS) funded planned to test Sc & REE mineralisation

Ceduna

- Multiple targets (PGE, Sc, REE) generated to test with aircore drilling



Board & Management



Richard Bevan
Non-Executive Chairman

- Extensive senior management experience, having been the Managing Director / CEO of a number of listed and unlisted companies
- Founding MD of nickel company, Cassini Resources
- Current Non-Executive Director of Empired (ASX:EPD), Killi Resources Ltd (ASX:KLI), TG Resources (ASX:TG6) and Cannon Resources (ASX:CNR)



Dr Gavin England
MD & Technical Director

- Geologist, 20+ years' experience with senior positions in mineral exploration, project development and technical advisory roles
- As an academic, involved in high level studies in petroleum and mineral systems, and nuclear waste disposal
- Multi-commodity experience as a geologist for LionOre, Impact Minerals, Gold Fields, EMA and Royal Resources
- Previous Non-Executive director for First Au (ASX:FAU) and founding Director of SA consulting company Clare Geological



Philip Warren
Non-Executive Director

- Chartered accountant and Managing Director of corporate advisory firm Grange Consulting Group
- 15+ years of corporate advisory experience specialising in financing, capital markets, and corporate governance
- Founding director of Cassini Resources
- Current Non-Executive Director of Anax Metals Ltd (ASX:ANX), Killi Resources Ltd (ASX: KLI) Rent.com.au (ASX:RNT) and Qoria Ltd (ASX: QOR) (formerly Family Zone Cyber Safety)



Damon O'Meara
Non-Executive Director

- Over 40 years' experience in the mining industry, having worked for Denis O'Meara Prospecting and former ASX-Listed Miralga Mining NL
- Denis O'Meara Prospecting founders of Atlas Iron, Kalamazoo and De Grey Mining
- Co-founder of Outback Trees and MD of private exploration companies Great Sandy Pty Ltd and Mineral Edge Pty Ltd
- Non-Executive Director of Octava Minerals Limited (ASX:OCT)



Jane Crawford
General Manager - Corporate

- 25+ years professional experience working in senior roles/consulting in corporate & project management, business development and strategy & corporate communications in the UK and WA
- 18 years as founding director of private consulting firm with high-profile clients across a range of industry sectors
- Recent focus mining industry, many years consulting to Rio Tinto and private mining companies



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