



DART MINING

Exploring and Developing Mineral Prospectivity in Eastern Australia

Master Investor Sector Focus: Gold and Precious Metals Webinar

Wednesday 15th May 2024

Mr. James Chirnside – Managing Director

ASX: DTM

FORWARD LOOKING STATEMENTS CAUTION

Certain statements contained in this document constitute forward looking statements. Such forward-looking statements are based on a number of estimates and assumptions made by the Company and its consultants in light of experience, current conditions and expectations of future developments which the Company believes are appropriate in the current circumstances.

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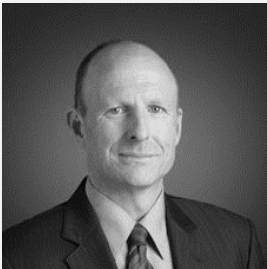
CORPORATE PROFILE

Board & Management



Mr. James Chirnside

- Chairman, Managing Director



Mr. Dean Turnbull

- Non-Executive Director, Founder, Geologist



Mr. Richard Udovenya

- Non-Executive Director, Lawyer

ASX Code	DTM
Ordinary Shares on issue	~258.43m
Options & Performance Rights	~13m
Market Capitalisation @ 0.018	~A\$8.0m

Senior Management

- Mr. Owen Greenberger
Manager Exploration, Geologist
- Ms. Julie Edwards
Co. Secretary, Accounting, ASX
- Ms. Aimee Coates
Manager Business
- Mr. Brad Milne
Manager Drilling

Precious Metals and Equities Market Observations

Precious Metals Complex

- Gold Bullion has performed strongly over the past five years
- Silver and Base metals, particularly Copper have also registered strong gains
- Strong ongoing demand from central banks as well as Chinese and US retail buyers is unlikely to dissipate anytime soon
- Walmart and Costco are now selling Bullion over the counter

Precious metals complex is fundamentally and technically constructive for the foreseeable future

Precious Metals Equities

- Gold Equity prices have not yet reflected underlying price moves in metals
- Producers have been strong due to accelerated margin expansion
- Developers have lagged these strong moves
- Exploration stocks have barely moved except for those with exceptional exploration results
- Exploration sector suffered ~80% decline over past two years. Investors suffered large losses
- Exploration sector offers the most leverage to investors
- Likely move by investors back into the sector if commodity price moves continue

Precious Metals equities remain historically cheap by almost any valuation metric

DART'S MINERALS EXPLORATION MODEL

Dart *Corporate Profile and Objectives*

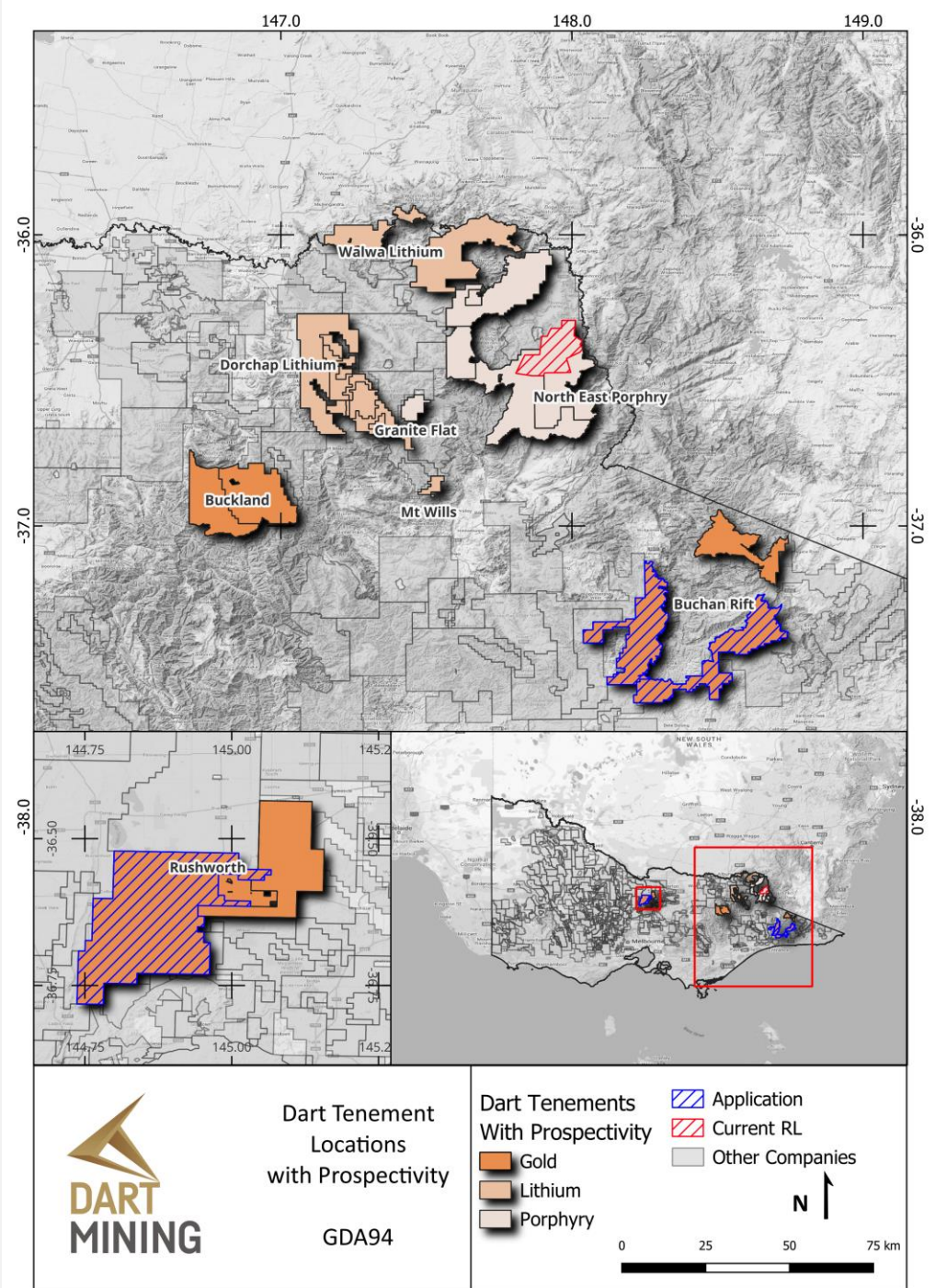
- **Actively seeking** quality exploration prospectivity in Precious, Base, and Battery metals. Conversations ongoing with multiple parties
- Develop **Inbound** Farm-in / Joint Venture relationships to partially reduce capital dependency on shareholders and thereby reducing dilution
- **Inbound** Farm-in / Joint Ventures create inbound cashflow enabling capital clawback / cash surplus generation
- Dart has finished preparing Information Memorandums on all of its major exploration projects. IM's are used for marketing to potential JV Mining companies
- Develop **Outbound** Farm-in / Joint venture relationships where Dart Explores and Drills earning equity in various projects in Victoria, New South Wales, and Queensland

Dart *Operational Profile and Objectives*

- Dart is self-reliant in most exploration activities including drilling, field work, and geological assessment and modelling
- Dart operates its own own Drill rigs (2). Darts costs of drilling are on par with the lowest drilling costs of any exploration company in Australia
- Dart makes its own internal geological assessments, and from time to time enlists outside assistance on specialist matters
- Dart operates its own transportable field camps that allow for significant cost savings
- Dart owns a "Vegetation Offset" block utilising offset units for internal purposes and selling units to the open market (\$2.5m so far)

EXPLORATION FOOTPRINT

- Significant landholding in Eastern Australia with ~7,000 km² tenement area (approximately the size of Lincolnshire)
- Mostly in the Orogenic (mountainous) regions of Eastern Australia
- Rich in historic Gold and Tin mining, the area is underexplored in contemporary times using modern methods
- Footprint includes:
 - 80+ Geological target projects across 6 work areas
 - 9 Historic Goldfields
 - >1,000 LCT (Li, Cs, Ta) Pegmatite dykes
 - 8 Au-Cu, Mo-Cu Porphyry targets
- Geographic focus on NE Victoria, Eastern Victoria and NSW along the Geologically renown **Lachlan Fold Belt**
- Diverse geological setting
 - *Orogenic Au*
 - *Porphyry (Bulk tonnage) Cu-Au, Mo-Cu-Ag*
 - *Li-Cs-Ta Pegmatites*
- Commodity exposures to Precious metals, Base metals, and Critical minerals
- An established technical team with extensive experience in **Lachlan Fold Belt** Geology



WORK SCHEDULE 2024

Priority Projects

Dorchap Lithium (Li)

- Drill ready 3,000m planned
- Permitting application lodged
- Commencement when Li sentiment improves (likely second half of 2024)

Rushworth (Au)

- ~1,000m of structural DD completed since March 2024 across Growlers Reef & West Growlers
- Strong alteration and Quartz veining observed surrounding the interpreted Growlers Hill Fault, with sulphides observed.
- Phase 2 drilling approvals have been granted, with drilling commencing at Star of the West prospect immediately
- Phase 2 drilling comprises of 1,630m of drilling at the Star of the West, Shellback and Star of the West West (working name) prospects.
- Regional fieldwork across EL008161 upon grant

Additional Projects

Dart Goldfield (Au)

- Field Mapping and sampling of identified targets

Mt Unicorn Porphyry (Mo, Cu, Ag)

- Metallurgical review and test-work of historic bulk samples

Walwa Project (Li, Sn)

- Field mapping and sampling of identified Lithium targets

Buckland Gold Project (Au)

- Further field mapping and sampling across priority targets
- DD campaign north of Fairley's ridge

FIELD IMAGES



Projects Review

- Rushworth (Au)
- Dorchap (Li)
- Buckland (Au)
- Unicorn (Mo, Cu, Ag)
- Granite Flat (Au-Cu)
- Northern Porphyries



RUSHWORTH Goldfield - Summary

Location

- Dart Mining tenements cover the entire Rushworth Goldfield, located in Central Victoria, 45km northeast of the ***Fosterville Gold Mine*** - *considered to be the most profitable gold mine, of significant production, in the world* - owned by Agnico Eagle (NYSE:AEM, TSX:AEM)

Style

- Rushworth mineralisation is of an orogenic epizonal quartz-vein style that is interpreted to be genetically like the nearby Central Victorian high-grade gold systems at Ballarat and Bendigo

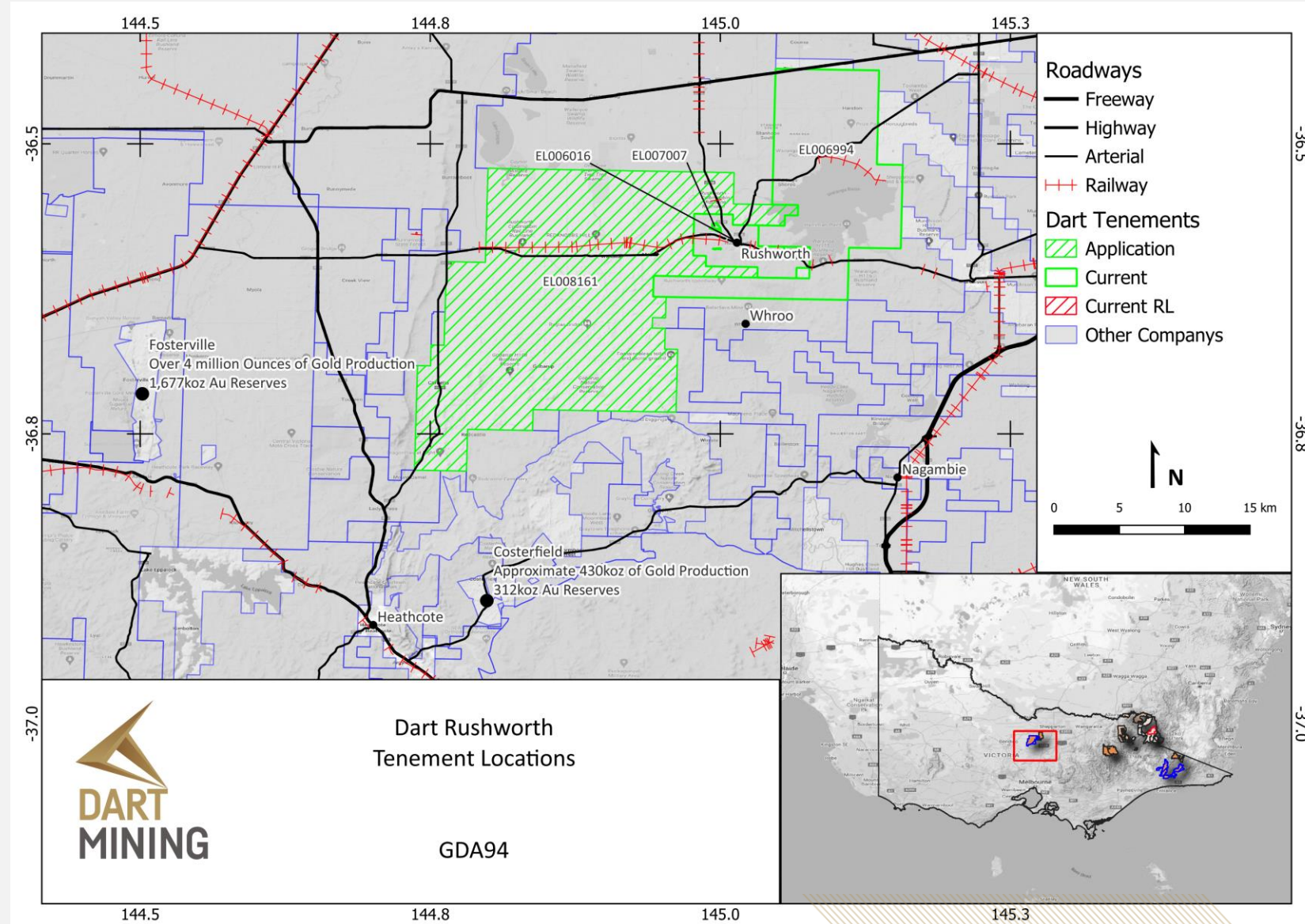
Scale

- LiDAR survey has revealed >4,600 (shallow) historic workings along some 14km of strike
- The Rushworth Goldfield is vastly under-explored using contemporary exploration methods
- Historic mining efforts were defeated by water ingress and most workings ceased at ~40m

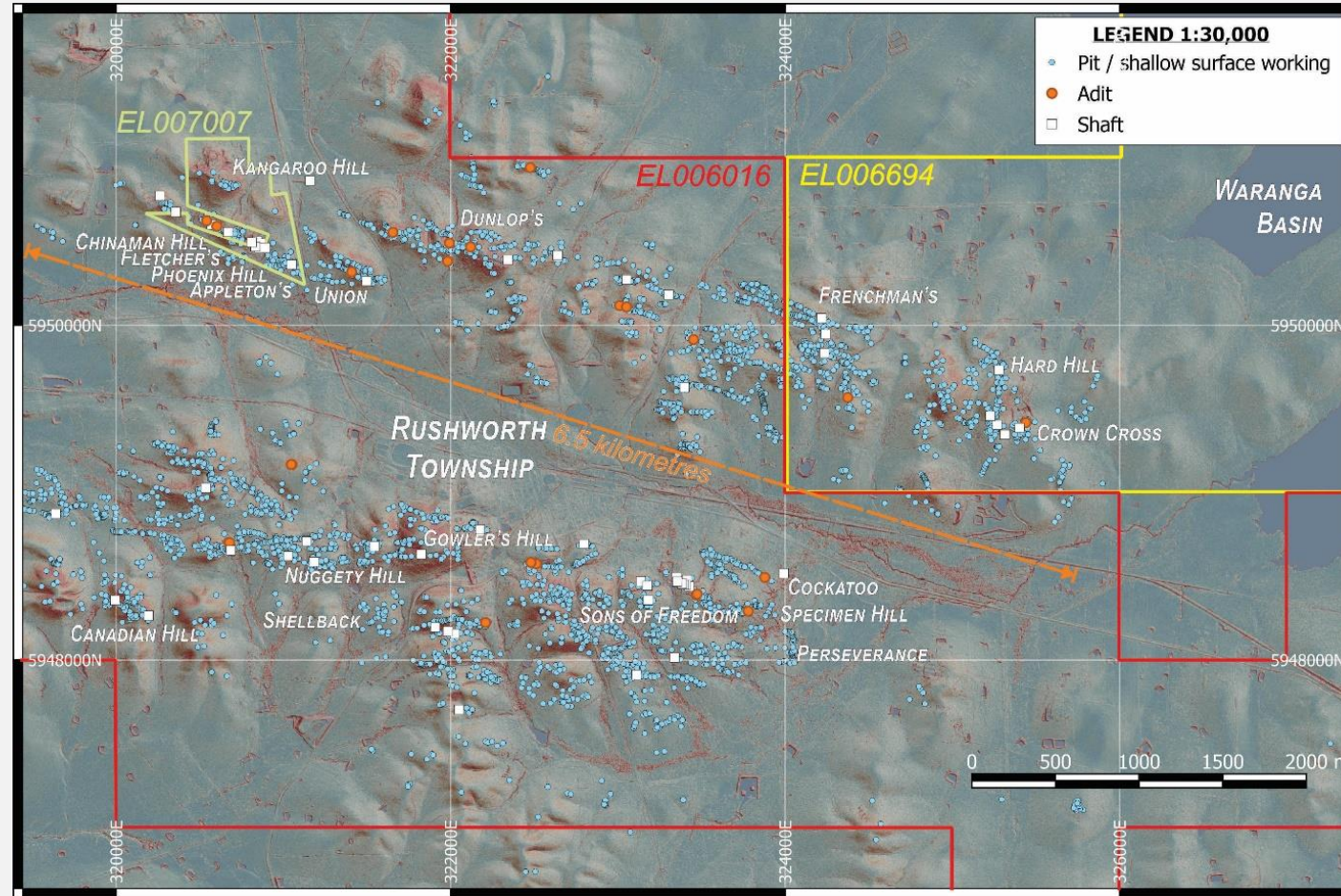
RUSHWORTH Goldfield Footprint & Exploration Leases

Regional

- EL8161 application in progress, highest ranked of competing applications over the area.
 - Rushworth Goldfield contains extensions of the Historic Whroo Goldfield, and hosts the Historic Balaclava Mine
 - Moormbool Fault which is a major north South structure associated with Costerfield Antimony and Gold Mine
- Region well serviced with infrastructure

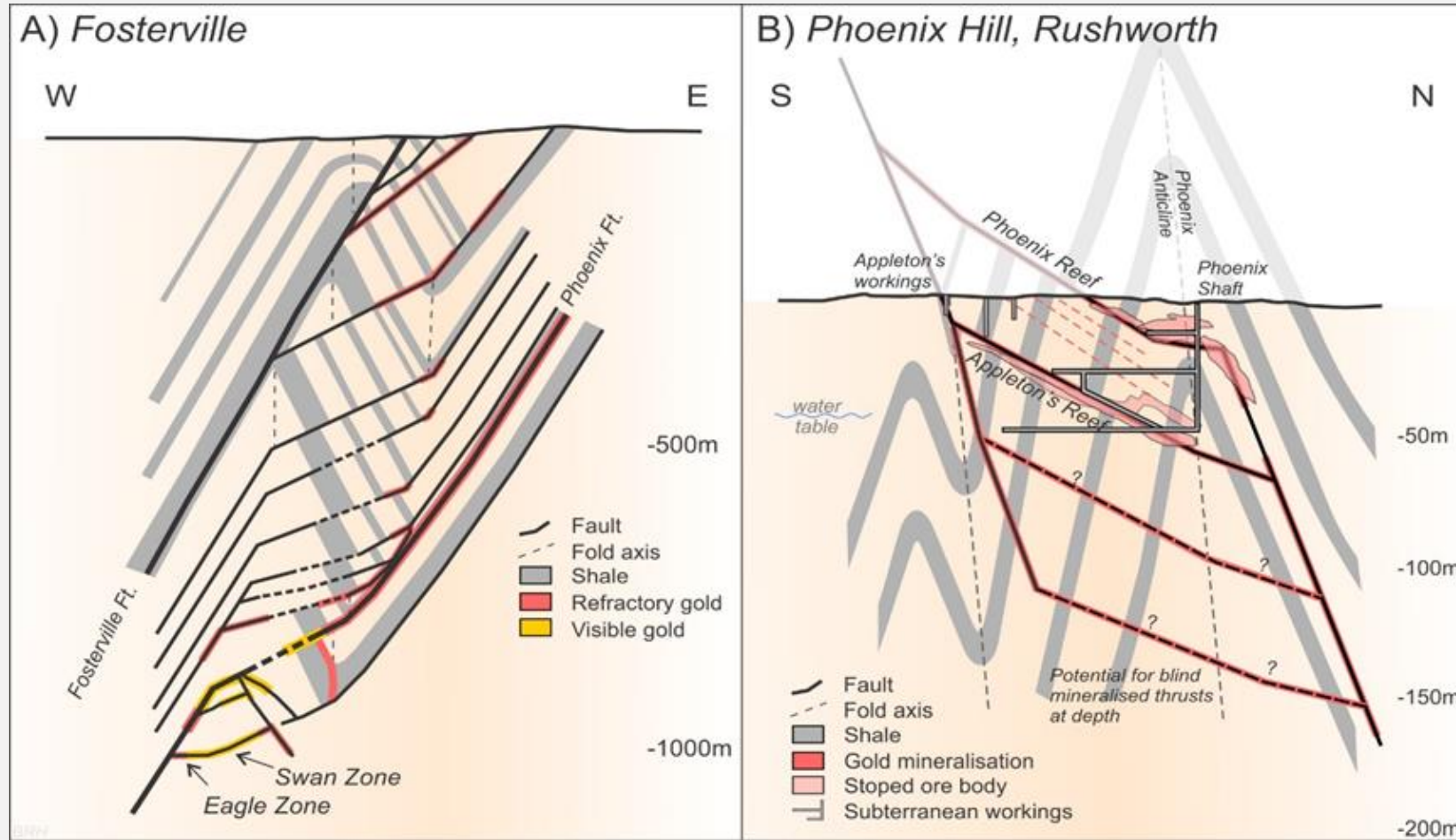


RUSHWORTH Goldfield – Location and Historic Workings



Location of historic workings identified in LiDAR imagery, with key historic prospects and Dart Mining tenements identified. Even at this broad scale, structural trends and the orientation of multiple reef systems is apparent – [Dart Mining ASX April 2023](#)

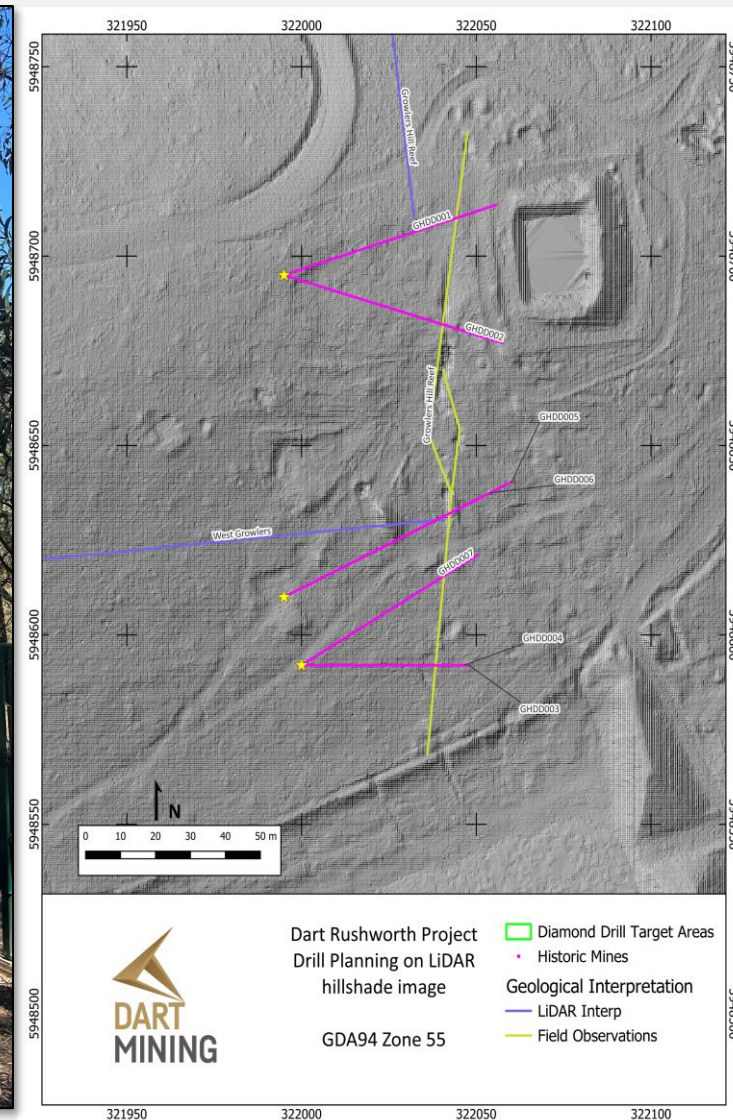
RUSHWORTH Goldfield – Structural similarities vs. nearby Fosterville Gold Mine



Structural model of Fosterville (A) and the Phoenix Hill – Chinaman's Gully area, Rushworth (B), displaying structural and mineralisation characteristics typical of Central Victorian orogenic gold mineralisation. Mineralisation along limb-thrust faults, is notable of most significant Central Victorian goldfields (Castlemaine, Bendigo, Ballarat, Fosterville, Rushworth). Fosterville model (A) modified from Volleger et al. (2020). Phoenix Hill cross-section compiled from geological mapping completed by Jones & Turnbull (2014) and Boucher (2016). Figure modified from [Dart Mining ASX November 2020](#).

RUSHWORTH Goldfield – Drilling Underway

- Drilling has commenced at Rushworth targeting the Growlers Hill Reef.
- Three Structural Targets
 - East West - Thrust Hosted Quartz Veins
 - Bedding and hinge related faulting
 - North South Veins
 - Structural accommodation of Lachlan Origin subduction roll back
 - Saddle Reefs
 - Bendigo style hinge related mineralisation
- Drilling is targeting the North South Growlers Hill Reef dilation zone, and the intersection of the Thrust Hosted Quartz Veins of West Growlers



DORCHAP Lithium Project (Farm-in JV) - Summary

Location

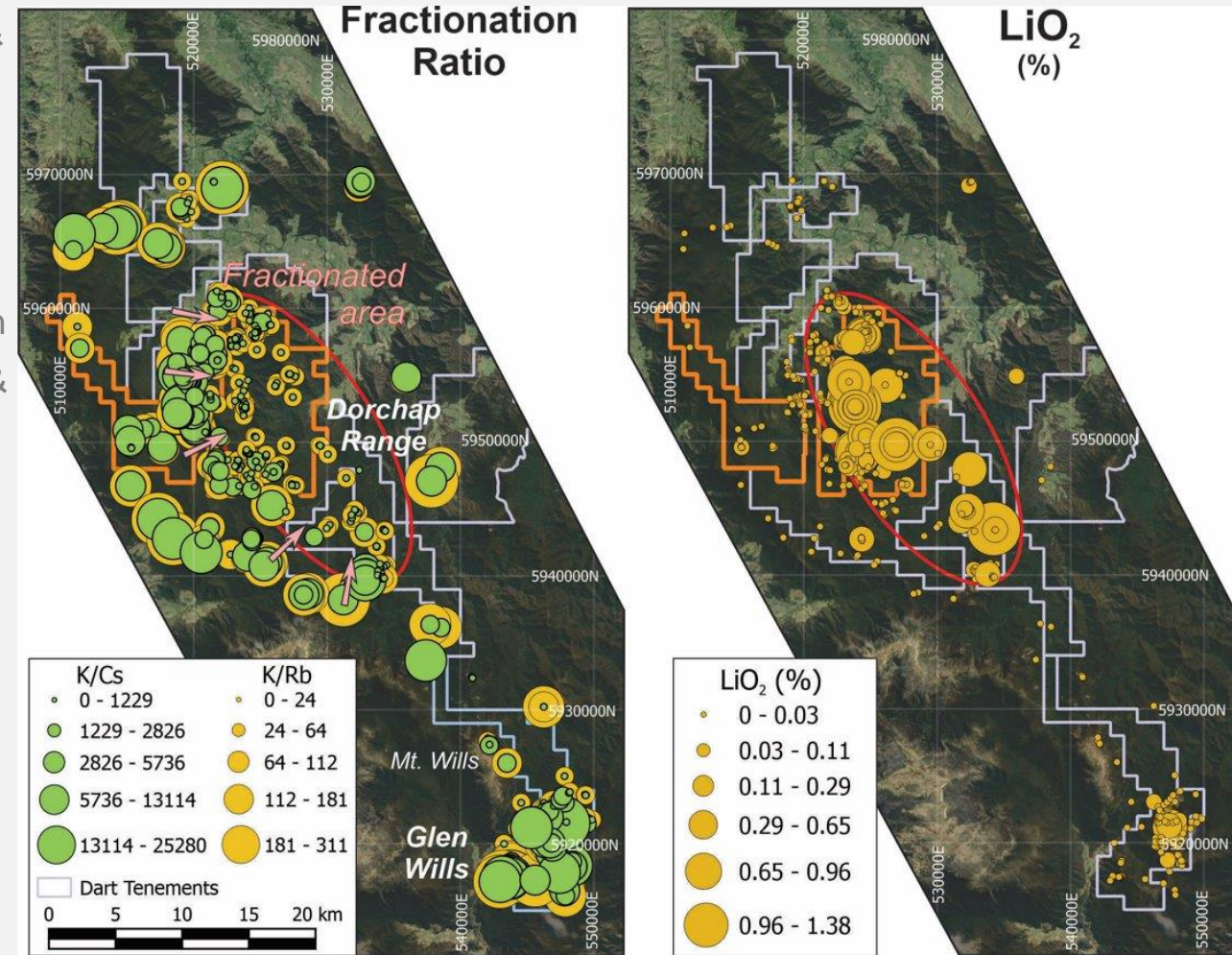
- Situated in the Dorchap Range, between the townships Eskdale & Glen Wills
- First mover land position over important project location

Style

- Pegmatite hosted Lithium-Caesium-Tantalum (LCT) mineralisation
- **Spodumene & Petalite mineralisation**, with localised lepidolite & amblygonite

Scale

- 20x12km zone of highly-fractionated pegmatites identified from surface sampling
- >1,000 LCT pegmatite dykes across the dyke swarm
- Multiple Li mineralised pegmatite dykes identified, with Li hosted primarily by spodumene



DORCHAP (Farm-in JV) Lithium Project - Highlights

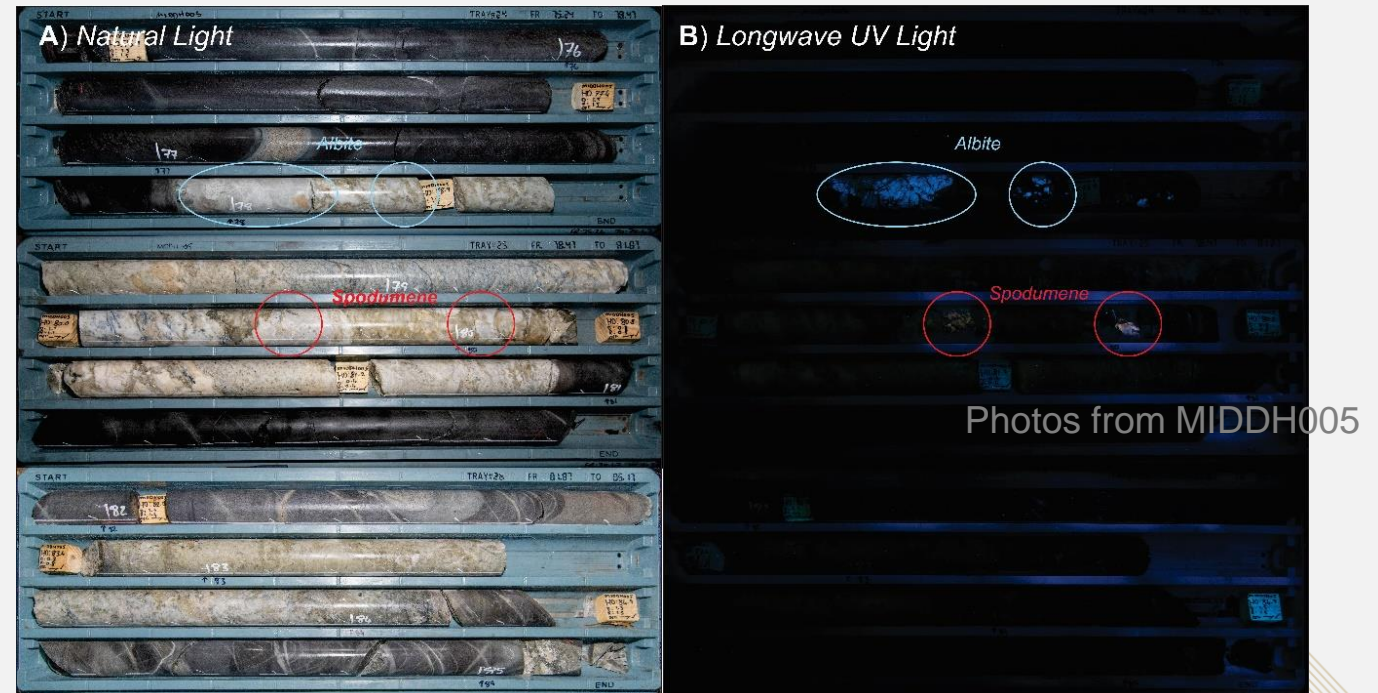
Results released 13/9/23

Drilling

- MIDDH009
 - 10.0m @ **1.08%** Li₂O from 313m
 - Including 7.0m @ **1.38%** Li₂O from 315m
- MIDDH010
 - 2.0m @ **1.07%** Li₂O from 302m
 - Including 1.0m @ **1.38%** Li₂O from 303m
- MIDDH002
 - 16.75m @ **0.21%** Li₂O (Eagle Dyke)
 - inc. 0.81m @ **1.2%** Li₂O
- MIDDH005
 - 3.01m @ **0.26%** Li₂O (Fergussons Dyke)
 - inc. 0.62m @ 1.63% Li₂O

Rock Chips

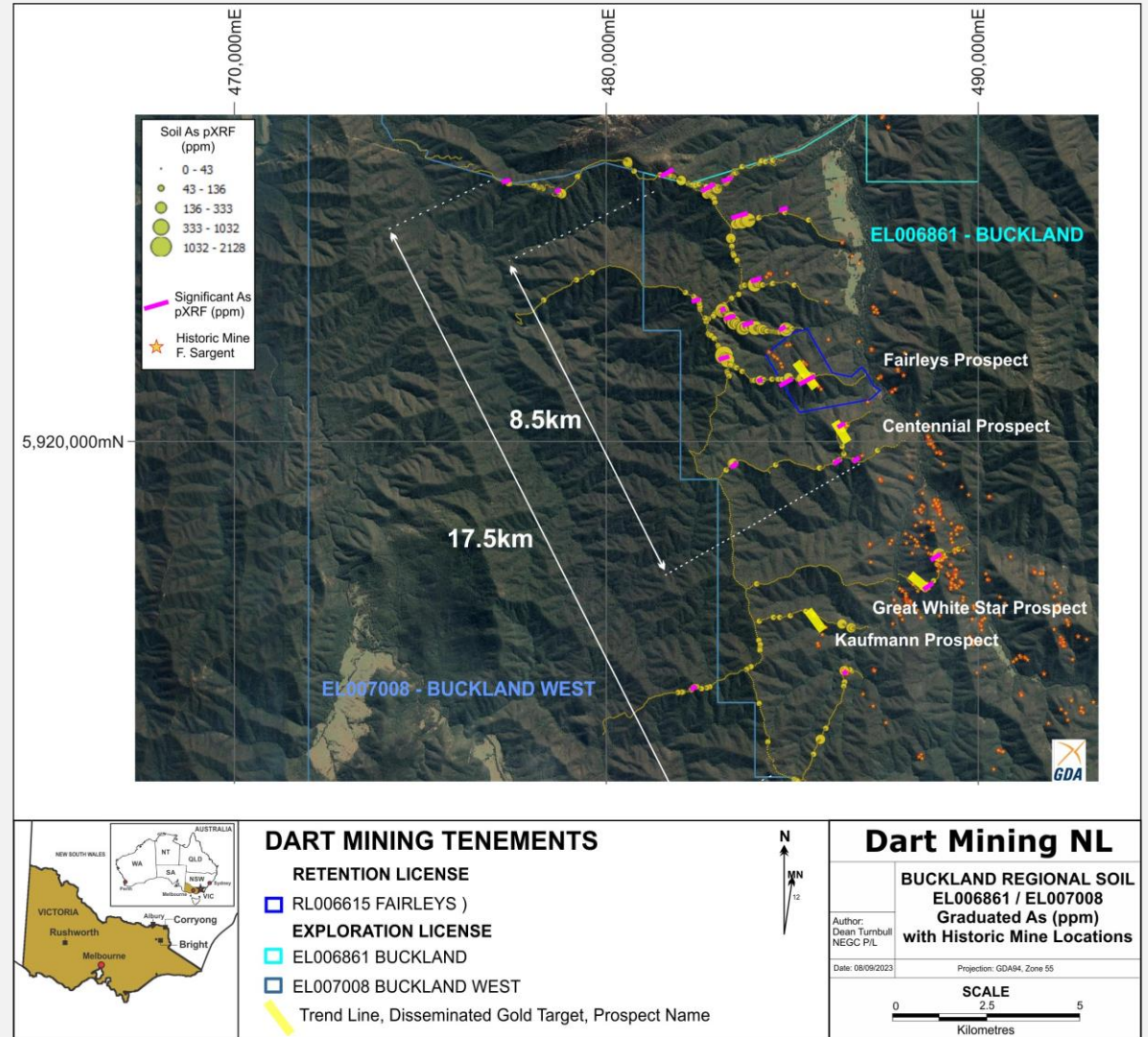
- 10m @ 1.38% Li₂O (rockchip sampling)
- 10m @ 1.22% Li₂O (rockchip sampling)
- 10m @ 0.95% Li₂O & 20m @ 0.33% Li₂O (Eagle Dyke)
- 16m @ 0.32% Li₂O, (Bluejacket Dyke)
- 4m @ **12.3% spodumene** & 1.13% Li₂O (Gosport)



BUCKLAND Goldfield – Summary

- **Location**
 - Part of 6.9Moz¹ Rutherglen-Beechworth-Harrietville gold district
 - Primary + Alluvial production
 - Buckland shows extensive shallow primary workings (>100) but low primary production
- **Scale**
 - 17.5km strike identified to date from ~7,500 surface samples
 - Multiple parallel structures identified
 - Thick mineralisation intersected >180m below surface
 - Mineralisation extends to over 10m width at surface and down hole
- **Style**
 - Shear hosted, orogenic gold system
 - Multiple mineralization styles evident
 - Vein-hosted high-grade gold
 - Broad zones of disseminated sulphide hosted gold
- **Recent RAB Drilling Highlights² Fairleys Prospect**
 - 13m @ 4.82 g/t Au from 12m
 - incl 2m @ 11.6 g/t Au from 20m
 - 11m @ 2.64 g/t Au from 28m
 - incl 3m @ 7.49 g/t Au from 29 m
 - 10m @ 2.27 g/t Au from 4m
 - incl 2m @ 5.52 g/t Au from 7m
 - 2m @ 4.70 g/t Au from 17m and 3m @ 2.62 g/t Au from 26m

Note 1. Historic production figures from: PHILLIPS G.N., 2010. Victorian Gold Province, Australia: A Contemporary Exploration Guide. *GeoScience Victoria Special Publication*
 Note 2. [Dart Mining ASX October 2020](#)



	DART MINING TENEMENTS RETENTION LICENSE RL006615 FAIRLEYS) EXPLORATION LICENSE EL006861 BUCKLAND EL007008 BUCKLAND WEST Trend Line, Disseminated Gold Target, Prospect Name	N MN SE	Dart Mining NL BUCKLAND REGIONAL SOIL EL006861 / EL007008 Graduated As (ppm) with Historic Mine Locations
	Author: Dean Turnbull NEGCG P/L Date: 08/09/2023 Projection: GDA94, Zone 55		SCALE 0 2.5 5 Kilometres

Buckland goldfield with graduated regional soil arsenic (As) level (ppm) with significant anomalies highlighted (magenta). Historic mine location data (red dots) from F. Sargent Historical Mining Activity layer (GeoVic): <https://earthresources.vic.gov.au/geologyexploration/maps-reports-data/geovic> for reference. Modified from [Dart Mining ASX September 2019](#)

UNICORN Mo-Cu-Ag Porphyry - Summary

Location

- Situated approximately 20km to the South of Corryong township, and approximately 30km west of Mt Kosciusko on the Victorian-NSW Border

Style

- Large rhyolite intrusive with similar geology to the giant Climax & Henderson Molybdenum mine in Colorado, USA
- Also contains significant Copper and Silver

Scale

- **Total Measured, Indicated, and Inferred Resource: 203Mt JORC (2004²) at 0.06% MoEq¹**

Mineralisation

- Open at Depth and Laterally below 1200m
- Expand initial oxide molybdenum metallurgical studies

Note 1: Molybdenum Equivalent Assumptions: Based on relative value (with reference to the average price) of each metal in the 2 months June 22nd to August 23rd 2012 listed on the LME for Molybdenum and Copper and average price for the same period for Silver as follows:

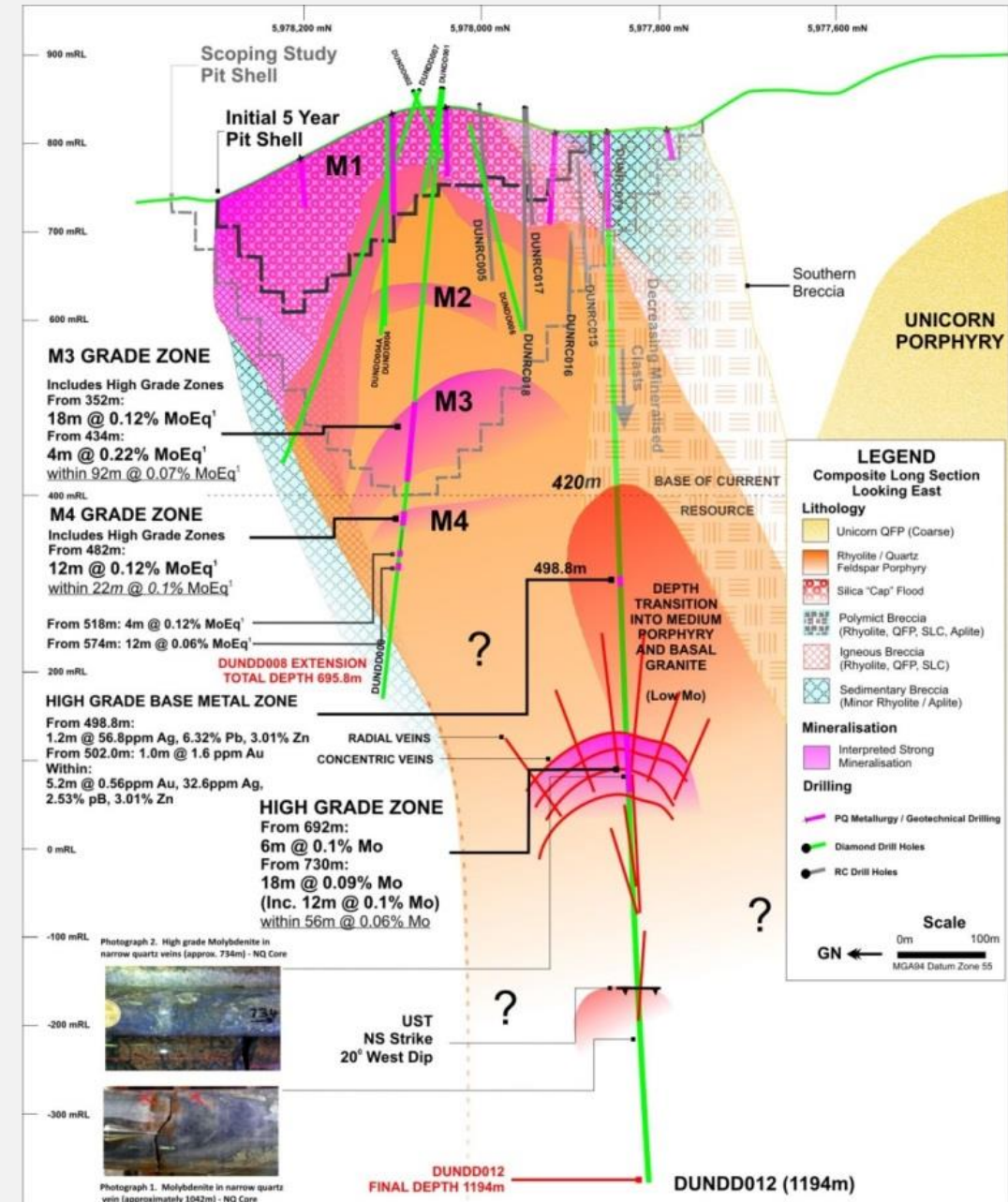
- Mo US\$25,871 per tonne
- Cu US\$7515.7 per tonne
- Ag US\$27.6 per ounce

The Molybdenum Equivalent grade should not be interpreted as actual molybdenum grade as the conversion ratios vary with the volatile prices of Mo, Cu and Ag. However, it is the Company's opinion that elements considered here have a reasonable prospect to be recovered.

$$^1 \text{MoEq (ppm)} = \text{Mo (ppm)} + (\text{Cu (ppm)} / 3.44) + (\text{Ag (ppm)} \times 34.3)$$

([Dart Mining ASX September 2012](#))

² A Resource Update using a new geological model that defines the extent of Oxide, Transition and Sulphide zones is required due to identified variation in the metallurgical recovery for Oxide Mo & Cu zones. Resource update planned during the PFS phase.



GRANITE FLAT Cu-Au Project- Summary

Location

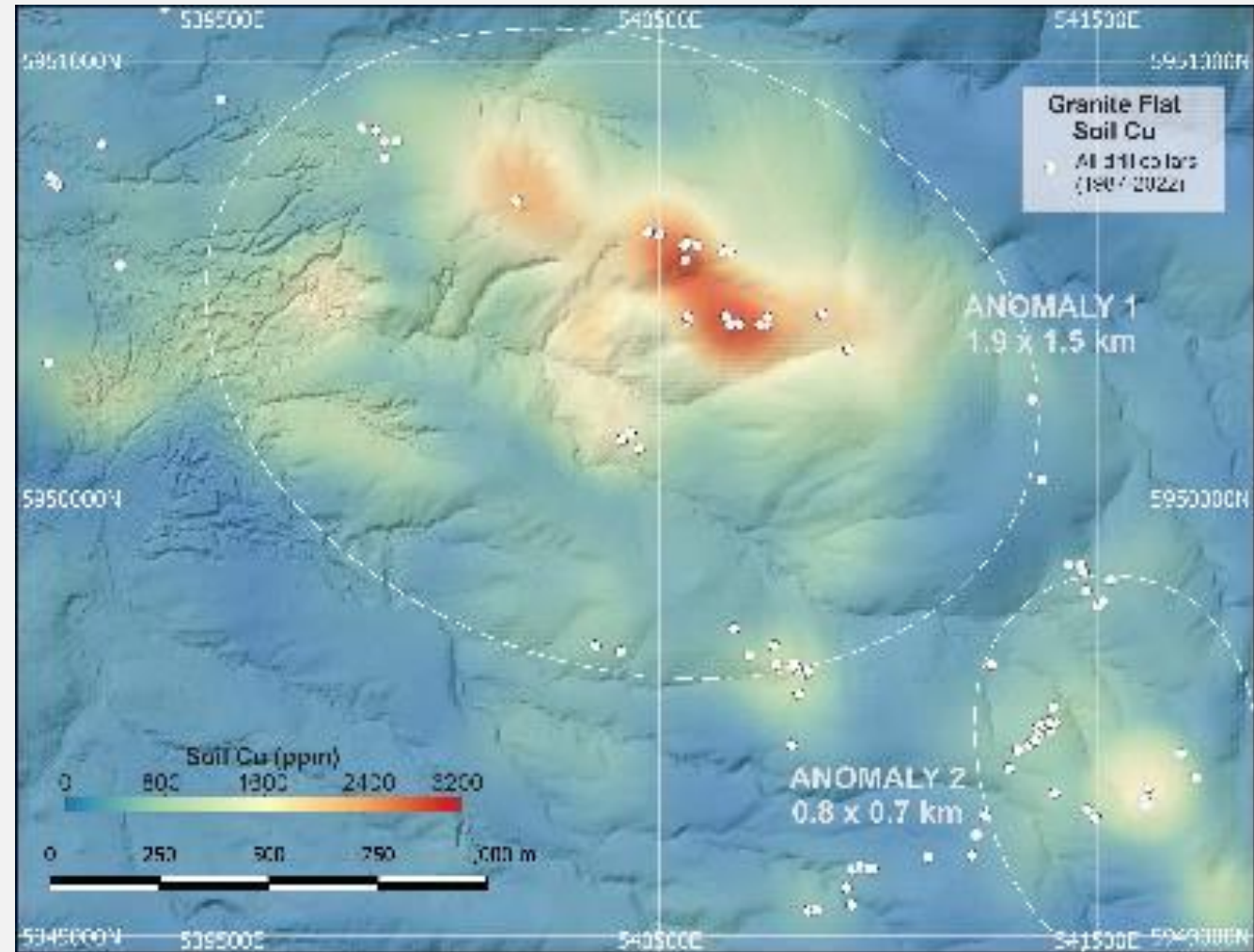
- Situated adjacent to the Omeo Highway, between Mitta Mitta & Glen Wills

Style

- Two mineralisation styles identified:
- Intrusion-related Cu-Au – long intervals of low-grade Cu-Au
- Hydrothermal overprint – Narrow silica-sulphide veins of high-grade Au-Cu-Ag ± Pb, Zn

Scale

- 1.8x 2.4km soil Cu-Au footprint, additional anomalies *open in all directions*
- Significant remanent magnetism anomalies identified north of project footprint
- IP chargeability and resistivity anomalies identified across 1.5 x 2.0km footprint
- Significant intervals of Cu-Au mineralisation intersected up to 180m below surface



NORTHERN PORPHYRIES

Location

- Surrounding Unicorn, additional porphyry targets exist within 10km radius

Style

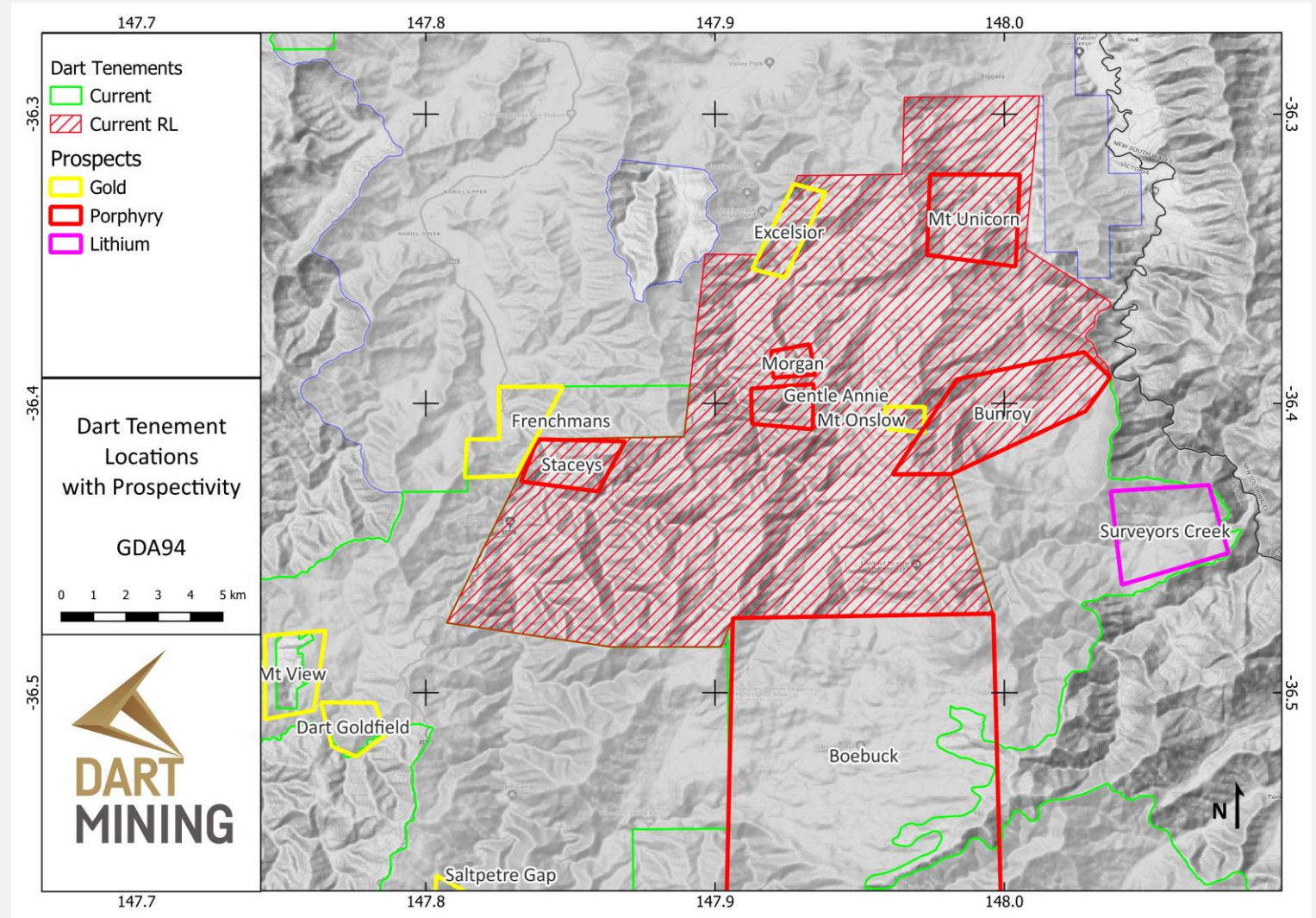
- Development of the Unicorn System.
- Large Silica Cap, and Unidirectional Solidification Textures (UST's) indicate overpressuring of the system and development of multiple, more developed intrusive stocks

Scale

- Unknown, but holds significant potential.

Mineralisation

- Holds the potential for further developed intrusives moving from Mo dominated to Au-Cu potentials similar to NSW.



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