

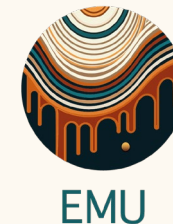


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# INVESTOR PRESENTATION Yataga Copper Project

PRECIOUS AND BASE METALS EXPLORER

# Forward Looking Statements



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# Competent Person's Report



## Competent Person Disclosure

The information in this disclosure relates to the exploration activities undertaken by EMU NL conducted over its exploration tenements in Australia. All information in this presentation has previously been recorded in the public domain.

EMU NL is not aware of any new information or data that materially affects the information included in the original market announcements.

The information in this presentation is based on, and fairly represents information and supporting documentation compiled by Mr Nigel Maund, a Competent Person who is consulting economic geologist to EMU NL. Mr Maund is a Fellow of the Australian Institute of Geoscientists, a Fellow of the Australian Institute of Mining and Metallurgy and has sufficient experience in the activities in which he undertakes 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 Maund consents to the inclusion herein of the matters based upon his information in the form and context in which it appears, and the Company confirms the form and context in which the Competent Persons findings are presented, have not been materially modified from the relevant original market announcements.

## Authorisation

This presentation has been authorized for release by Chief Executive Officer



# Georgetown, Qld



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- 1,000 mines, prospects, mineral occurrences in Georgetown District
- 3 exploration permits covering 850km<sup>2</sup>
- Significant historical gold production, very little systematic modern exploration
- Gold, lithium, silver, lead, zinc, copper, tin, tantalum, niobium, uranium, fluorine and molybdenite
- 8 potential scale prospects gold, copper, silver lead identified to date including the Yataga Copper Project
- EMU is targeting 100's of millions of tonnes of bulk mineable copper and other metals



# Yataga Copper Project



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## Yataga Igneous Complex

- Intrusive granitoid ~70km<sup>2</sup> located largely within tenement EPM 27667

## Yataga Copper Project

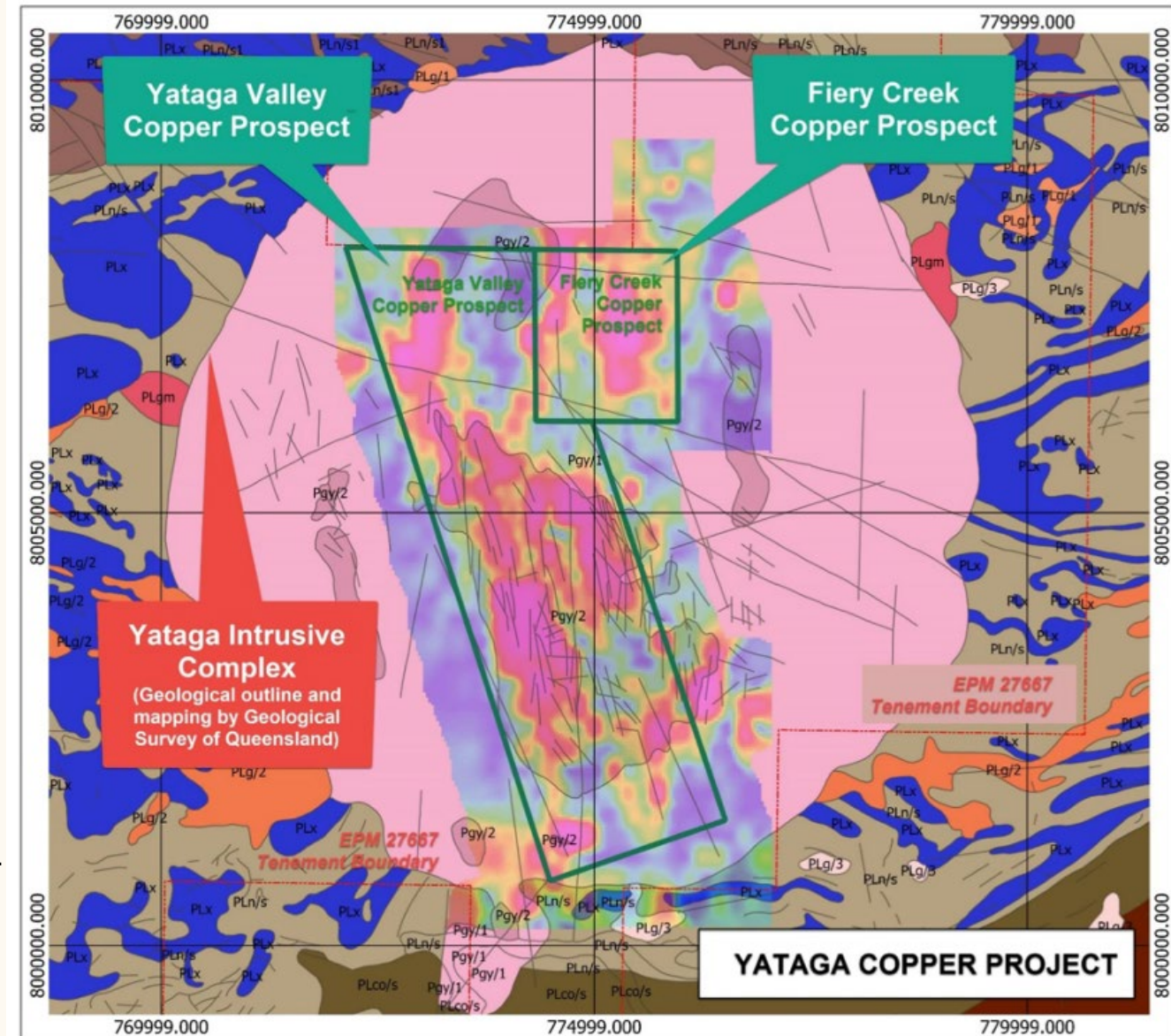
- Yataga Igneous Complex that falls with the EPM 27667

## Fiery Creek Copper Prospect

- EMU's original prospect discovery in northern area of the Yataga Copper Project

## Yataga Valley Prospect

- Recent discovery of widespread surficial copper mineralisation along the NNW-SSE shear zone in the central part of the Yataga Copper Project



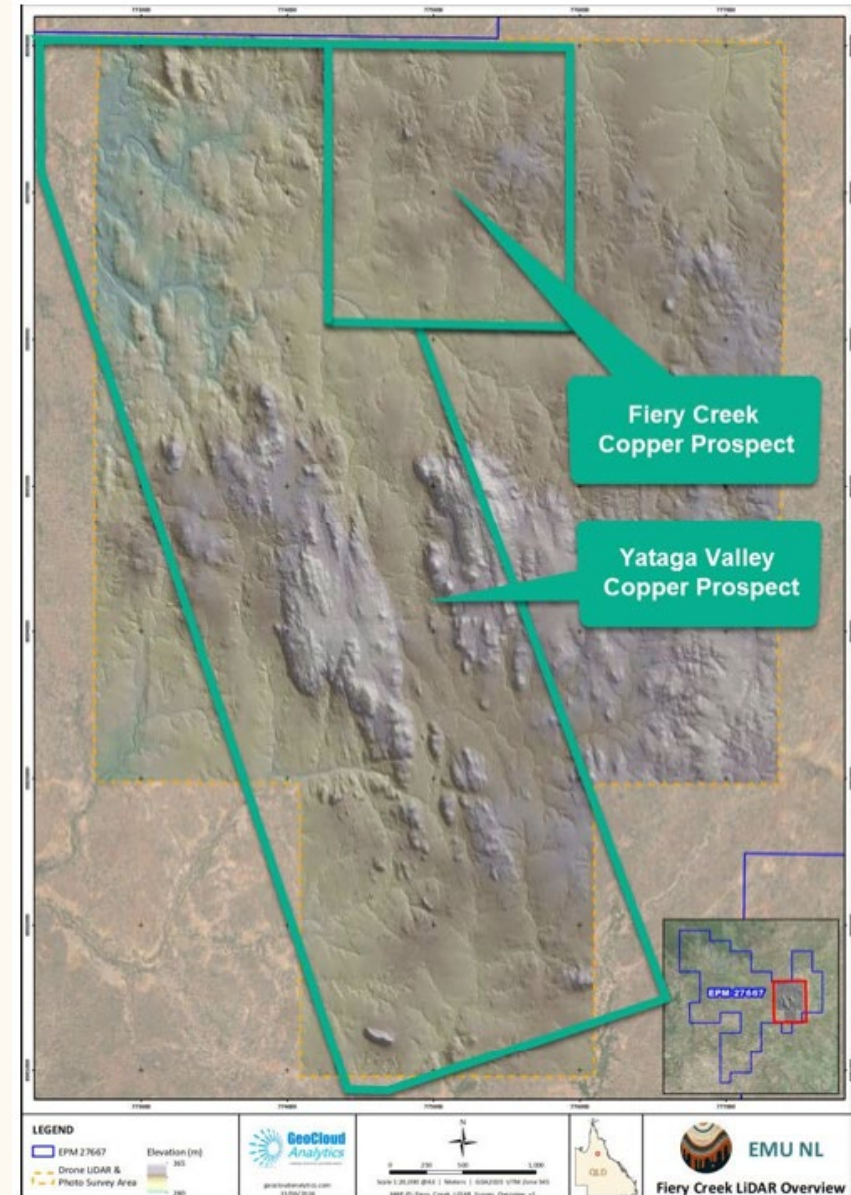


# Yataga Valley Copper Prospect



## A NEW PROSPECT

- Recent work has identified a combined area\* of 8km<sup>2</sup> of copper-in-soil anomalism with significant potential for expansion
- Includes the Fiery Creek and Yataga Valley Prospect areas
- Modelling of the surface mineralisation indicates presence of multiple Cu-bearing intrusive centres at or close to surface
- Analogous to geological setting of the Highland Valley Copper Mine (British Columbia) – largest open pit mine in Canada
- “Plutonic copper porphyry” mineralisation provides encouragement of potential scale of Yataga Copper Project



\* Including Fiery Creek

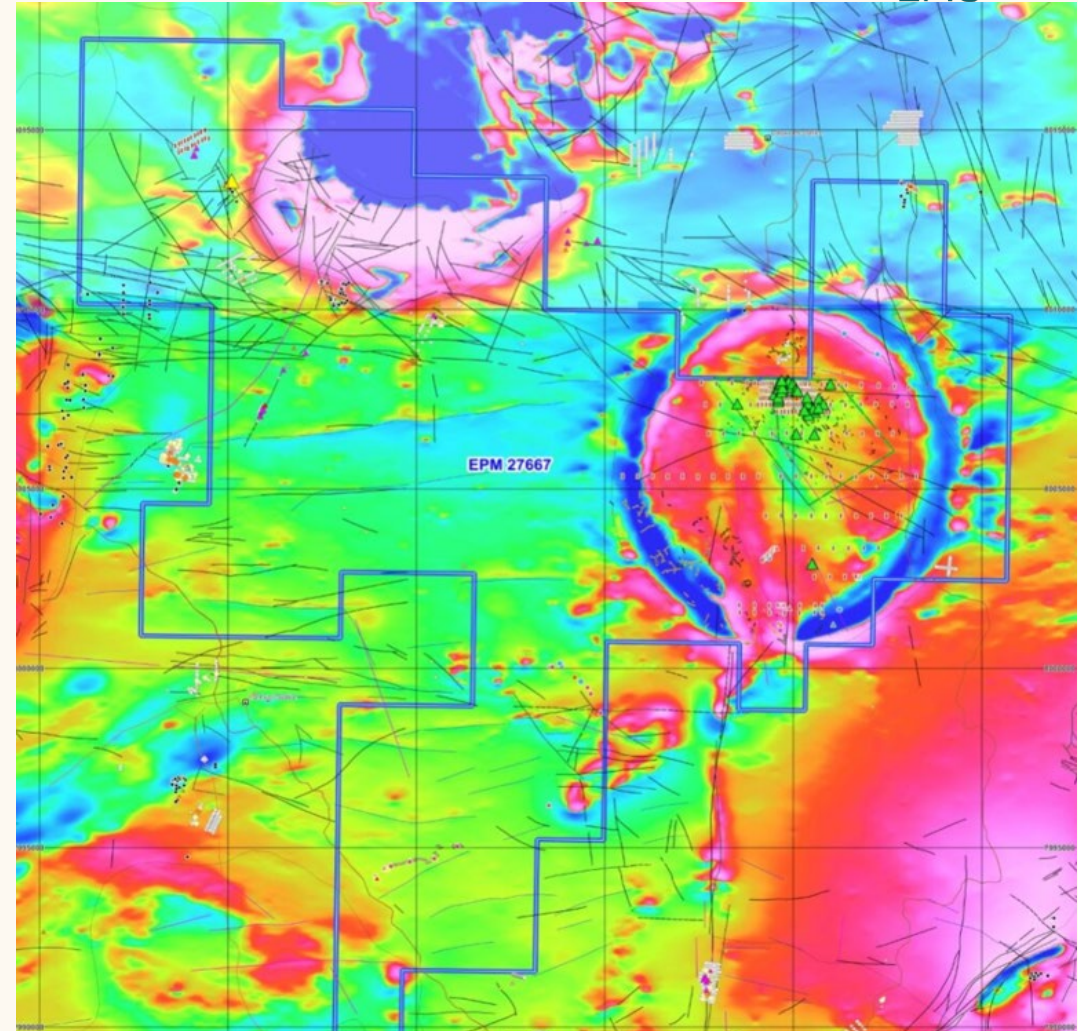
# Fiery Creek Copper Prospect



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## EMU'S ORIGINAL DISCOVERY PROSPECT

- 32.5% copper, 14 ounces silver (460 g/t)\* from rock samples in quartz breccia hosted veins at Fiery Creek
- 1600m x 750m outcropping copper veining up to 2m wide
- Prospect is interpreted to be located, within the roof of the porphyry intrusive system
- Outcropping veining and stockwork with extensive disseminated secondary copper mineralisation at surface
- Multi element assays point to possibility of a significant copper polymetallic system
- Pathfinder element anomalism widespread
- A number of geochemistry surveys completed by EMU



\*ASX Release "Copper Silver Lead Assay Results Pegmatite Fields Georgetown" 5 October 2023



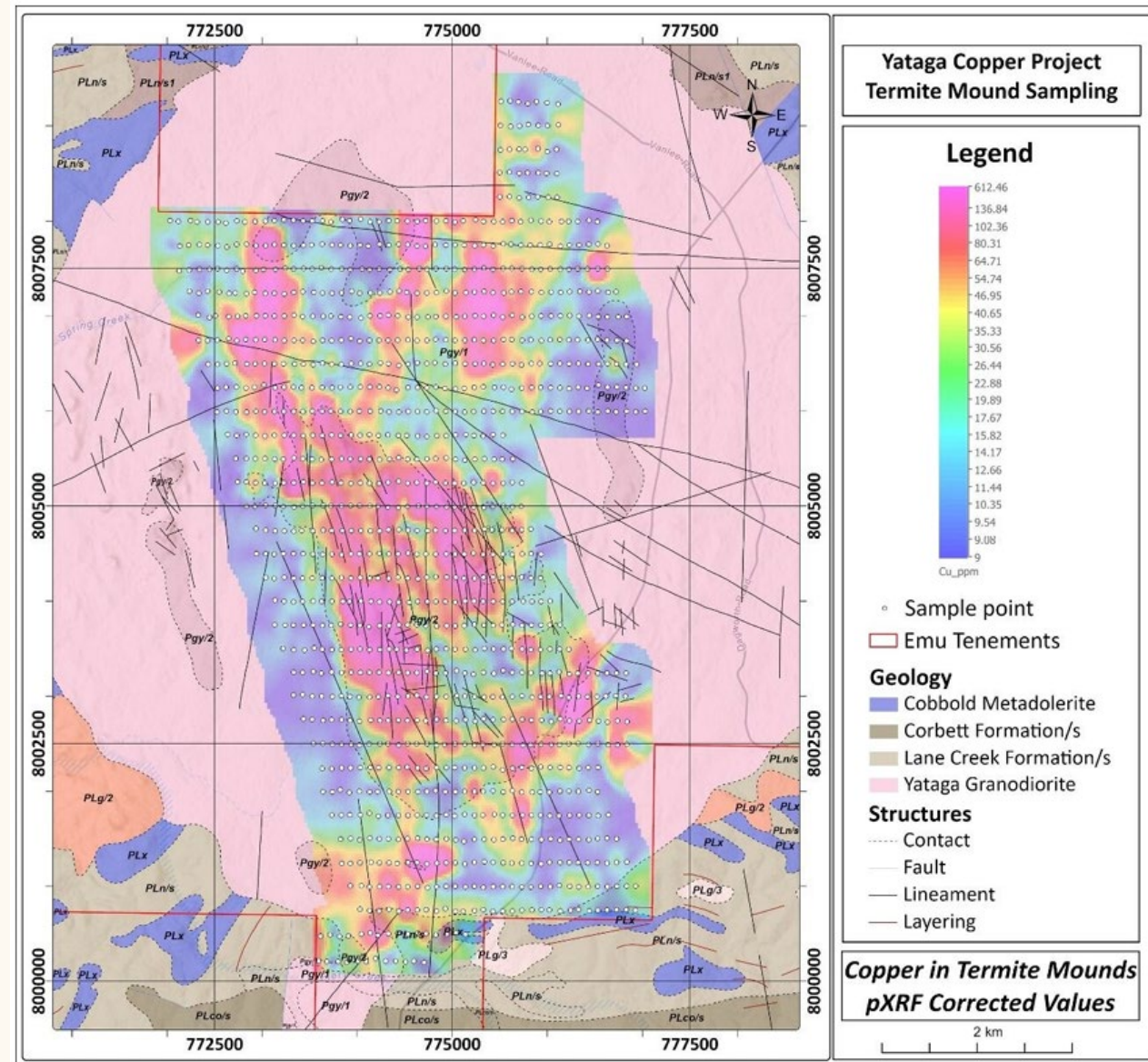
# Work Program

## 2024 FIELD WORK TO DATE

- Systematic, comprehensive, methodical and measured exploration program
- Dr Gregg Morrison and Nigel Maund- key technical advisors appointed
- Geophysical and geochemical surveys completed
- Multiple pXRF geochemistry surveys to define anomalism and delineate the likely mineralisation fluid-flow geometry
- Geophysical and geochemical surveys underway to broaden and extend the copper mineralisation footprint
- Aboriginal Heritage Survey completed
- Modelling to optimise drill target selection

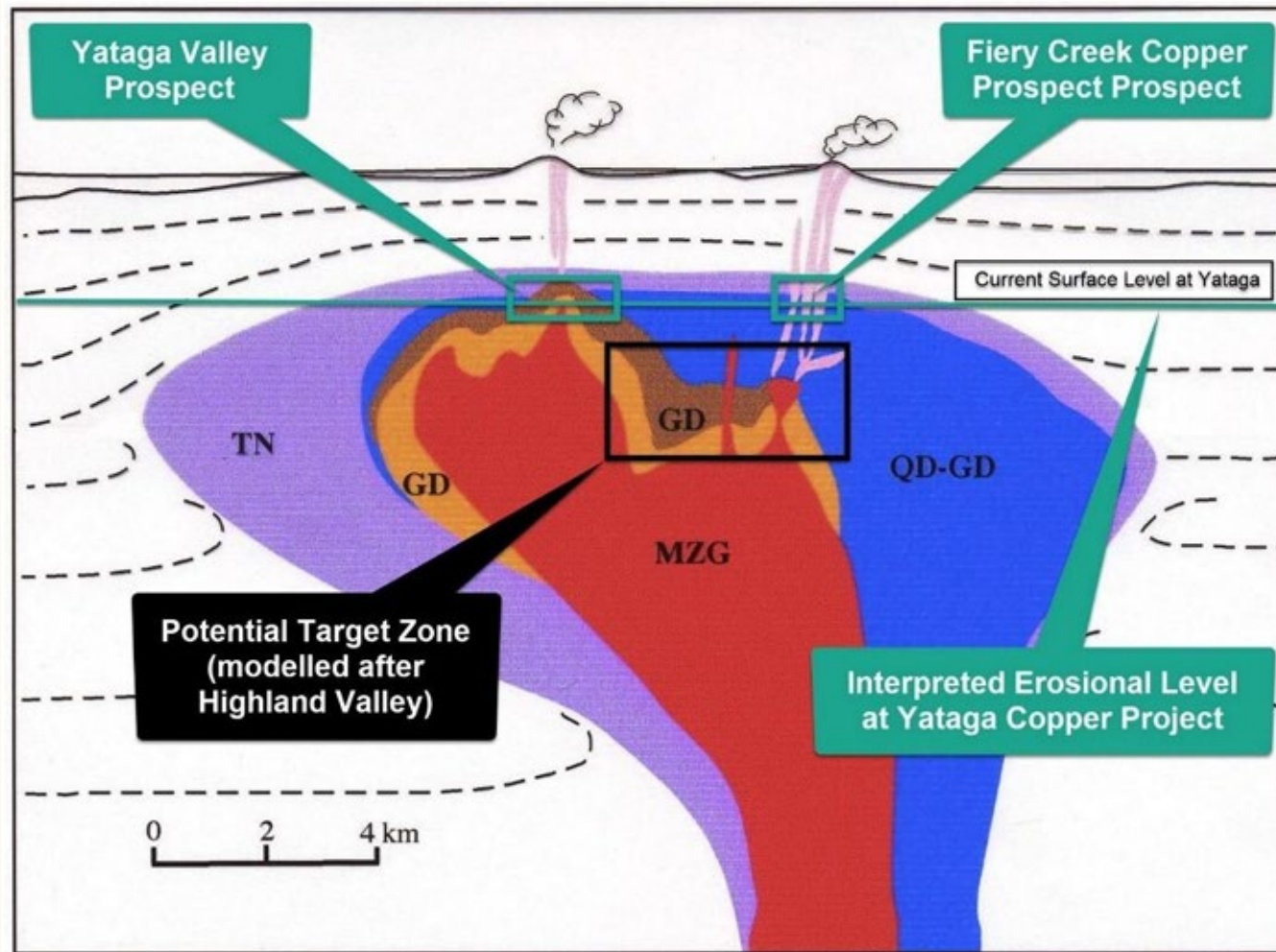


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# Conceptual Model



Modified after McMillan, W.J. 1976a, Geology and genesis of the Highland Valley ore deposits and the Guichon Creek batholith: in Sutherland Brown, A., ed., Porphyry Deposits of the Canadian Cordillera: Canadian Institute of Mining and Metallurgy, Special Volume 15, p. 85-104



*Highland Valley Mine, BC Canada -One of the largest copper mines in the world, Highland Valley Copper is owned by Teck Resources.  
Photo Credit Wikimapia*



# Fiery Creek Vein Samples



Sample ESS02045 - A white, frosty to glassy quartz vein hosting abundant drusy cavities lined with euhedral prismatic quartz crystals encrusted with supergene malachite and chrysocolla developed over sooty tenorite (Coordinates Location 774873E 8007987N)



Sample ESS02494 – (460ppm Ag, 1.25% Ba, 23.51% Cu, 14ppm In). White frosty quartz vein invaded by a later massive sulphide event as a mix of black tenorite (CuO) and sooty to dark grey chalcocite ( $\text{Cu}_2\text{S}$ ) replaced at its margins by crystalline fibrous malachite and minor chrysocolla (Coordinates Location 773511E 8007365N).



# Upcoming Exploration



## FIELD PROGRAMME

- In-field rock collection programme underway to provide further geochemical correlation for modelling of hydrothermal fluid flows
- Infill pXRF termite mound sampling programme over anomalous zones
- 2 geophysical data programmes in progress
  - Helicopter Electromagnetic Survey – pending
  - Pole Dipole Array IP Resistivity MT ground survey
- Preparation of vectors for drill programme from geochemistry and geophysics surveys and data modelling



# Investment Summary

- Yataga Copper Project increasing potential of a significant world class Australian porphyry discovery
  - Yataga Valley Copper Prospect – recent copper anomalism discovery
  - Fiery Creek Copper Prospect – original copper anomalism discovery
- Ongoing exploration activity to define drill targets with 3D modelling of geometry of the Cu source
- Gold assays from grid controlled termite mound sampling survey pending
- Extensive gold, base metals and historic mineral endowment at Georgetown highly prospective







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