

Investor Presentation

December 2022



Drilling at Jacks Project, Zambia

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The Investment Case

AIM: “TYM”



- Strategic focus is on copper, a key energy transition metal staple commodity for energy transition, and precious metals.
- Professional, experienced Board with extensive experience in Africa and USA.
- Geographical spread of projects allows year round exploration in established the mining jurisdictions of Nevada (USA) & Zambia.
- Exciting portfolio of copper projects in Zambia. Technical cooperation and data sharing agreement with multinational copper producer, First Quantum Minerals (FQM):
 - Jacks project – drill success in 2022 and priority new soil anomalies define for drill testing.
 - Mukai Project – Adjacent to FQM’s Trident Project which includes Enterprise nickel mine (34.7Mt grading 0.99% Ni) & giant Sentinel copper mine (>1 billion tons @0.51% copper).
 - Mushima North Project – IOCG targets in area of old Kalengwa mine (highest grade copper deposit in Zambia). Historical drilling reportedly intersected open-ended Cu mineralisation.
- Drill ready copper and gold projects in Nevada, including:
 - Brunton Pass Project - epithermal gold, copper skarn and copper porphyry targets in prolific Walker Lane Mineral Belt.
- **Significant leverage on the current share price with market capitalisation of just £2.6 million**

Share Structure	
Listing	AIM:TYM
Shares in issue	1,536,263,621
Warrants (0.34-1.875p)	245,817,646
Market Cap (undiluted)	£2.6 million
Share Price – 12m Range	0.11-0.3p

Directors' Shareholdings	Shares	%
Patrick L Cheetham*	21,465,000	1.40
Donald McAlister	2,937,609	0.19
Dr Mike Armitage	8,823,529	0.57

* includes 2,843,625 held by K E Cheetham



Board of Directors and Management



Patrick Cheetham, *Group Chairman & Chairman of the Nomination Committee*

- Geologist and founder of the Company
- 39 years' experience in mineral exploration
- 34 years' experience in public company management
- Founder of the Company, Dragon Mining Ltd, Archaean Gold NL and Sunrise Resources plc



Donald McAlister, *Non-Executive Director & Chairman of the Audit Committee*

- Accountant and founding Director
- Previously: Finance Director at Mwana Africa plc, Ridge Mining plc and Reunion Mining plc.
- 26 years' experience in all financial aspects of the resource industry, including metal hedging, tax planning, economic modelling/evaluation, project finance and IPO's



Dr Mike Armitage, *Non-Executive Director and Chairman of the Remuneration Committee*

- 30 years' experience producing resource estimates, competent persons reports and feasibility studies with SRK Consulting
- Previously Managing Director and Chairman of the SRK UK, Director of SRK's Exploration Services, and SRK Group Chairman
- Chair of the Applied Earth Science Division of IMMM, Chair of the Geological Society Business Forum and Honorary Chair of the Critical Minerals Association



Dr Richard Belcher, *Exploration Manager – Zambia*

- BSc (Hons) Exploration Geology from Cardiff University (UK) and a PhD in Geology from Stellenbosch University (RSA)
- 19 years' post-PhD experience across all stages of exploration with an emphasis on gold and base metals in Africa, including in Zambia
- Previously senior consulting geologist to Altus Strategies before its recent merger with Elemental Royalties

Why Zambia?



- Host, with DRC, to the Central African Copperbelt - the world's largest sediment-hosted stratiform copper province.
- Zambian Copperbelt hosts multiple world-class deposits - Sentinel, Kansanshi, Lumwana, Konkola, Mufulira, Mopani, Chambishi and others which together produced over 800,000 tonnes of copper in 2020.
- The new UPND government has announced plans to rationalise the mining tax regime to attract investment and has stated goals to boost copper production to 2 million tonnes by 2026.
- Recently unveiled a key revision to re-introduce the deductibility of mineral royalties against corporate income tax.
- Tertiary anticipates that the fiscal environment for mining and exploration will continue to improve and re-establish Zambia as a primary destination for investors focused on copper, one of the key energy transition metals.
- Major mining companies working in Zambia include State Mining Company ZCCM, Rio Tinto, Barrick, First Quantum Minerals, Anglo American & Vedanta.





Jacks Copper Project - Overview

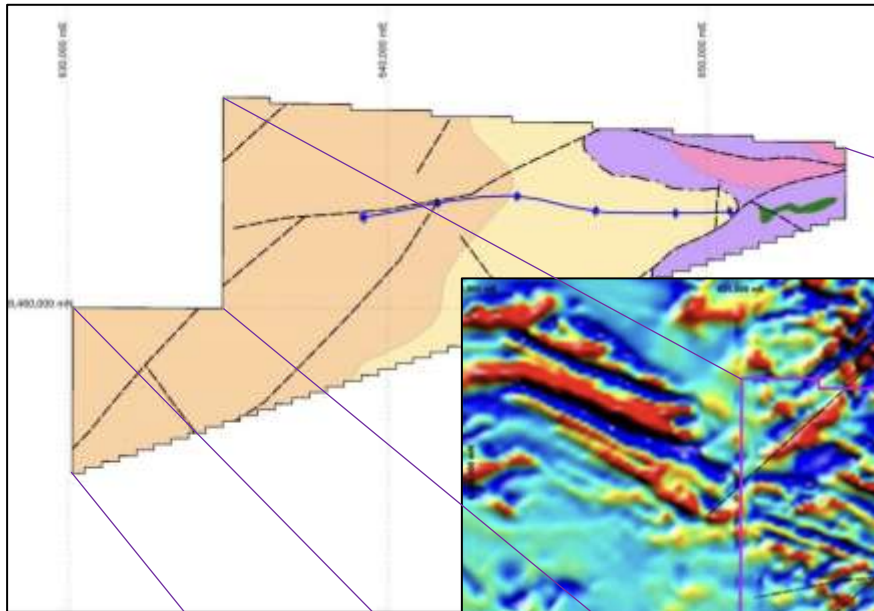


- The Jacks project area is underlain by Lower Roan Group, the rocks which host the major copper deposits across the Central African Copperbelt.
- Copper mineralisation reported from historical RC and diamond drill testing (Caledonian Mining/Cyprus Amax in the 1990's).
- Wide spaced and reconnaissance soil sampling was carried out in the 2000's by FQM but not followed up.
- Successful Phase 1 Drill Programme completed in Spring 2022 at the Jacks Project. Copper mineralisation now intersected over a 350m strike length, open along strike and at depth.
- Soil sampling programme completed October 2022 to follow up unresolved copper-in-soil anomalies as well as to guide follow-up drilling on the Jacks main prospect.
- Extensions to Jacks Prospect mineralisation identified and additional priority soil anomalies defined.

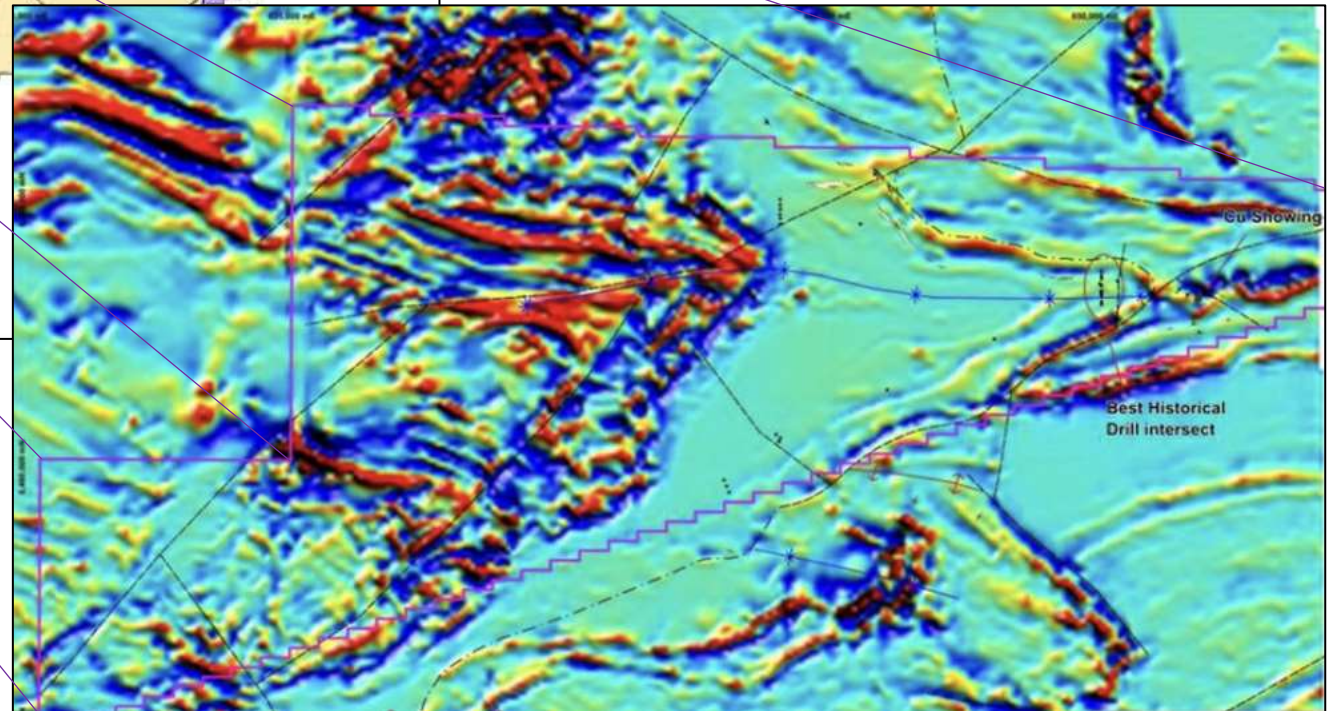
Jacks - Airborne Magnetics (Historical)



Targeting magnetically interpreted synclinal embayment of Lower Roan sediments. The Lower Roan hosts the majority of traditional Copperbelt deposits.



Detailed Geology

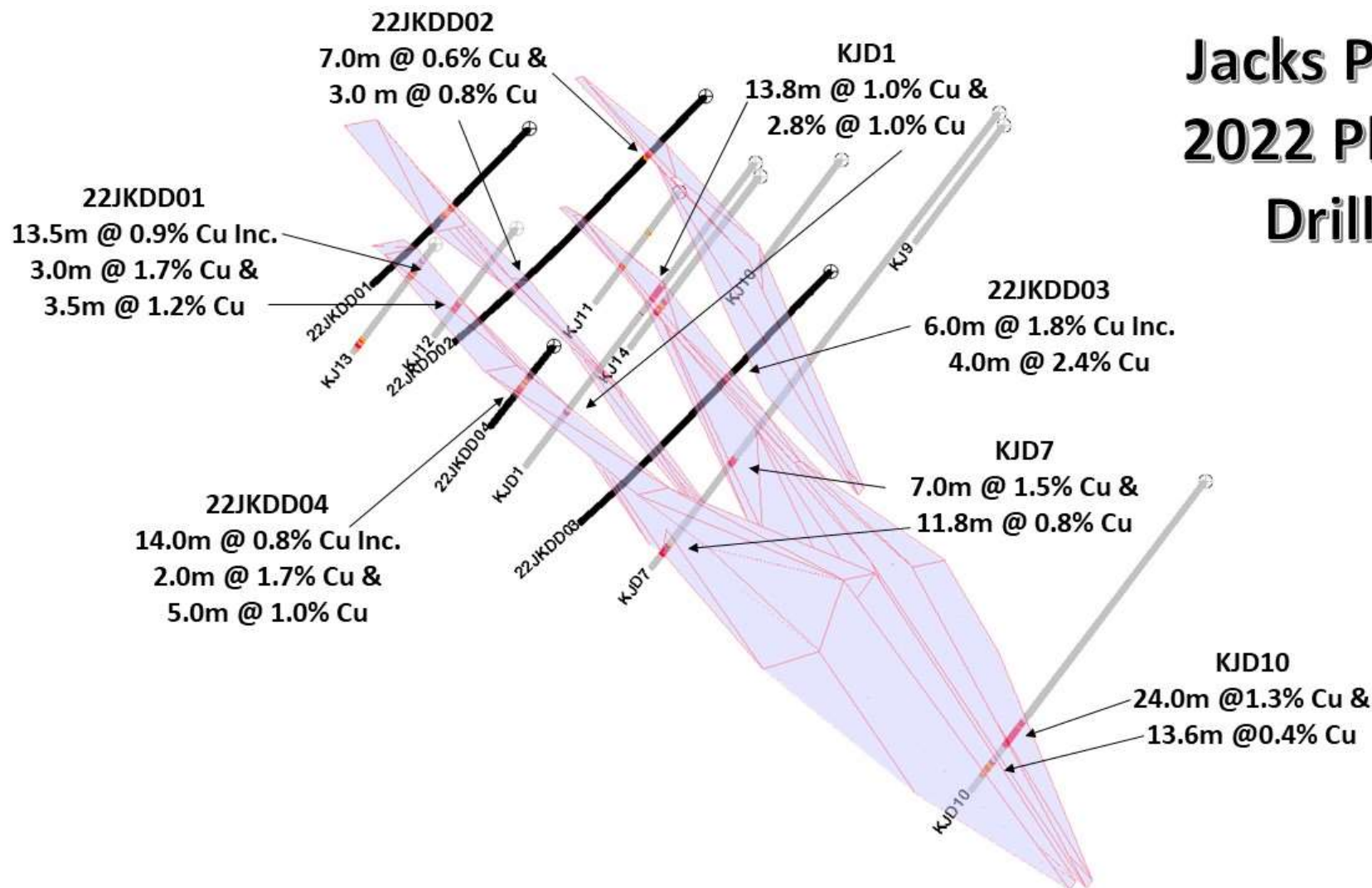


Airborne Magnetic Image (Vertical Derivative of RTP)

Jacks - Tertiary Phase 1 Drill Programme



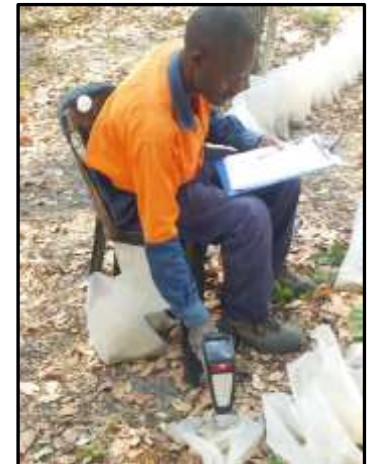
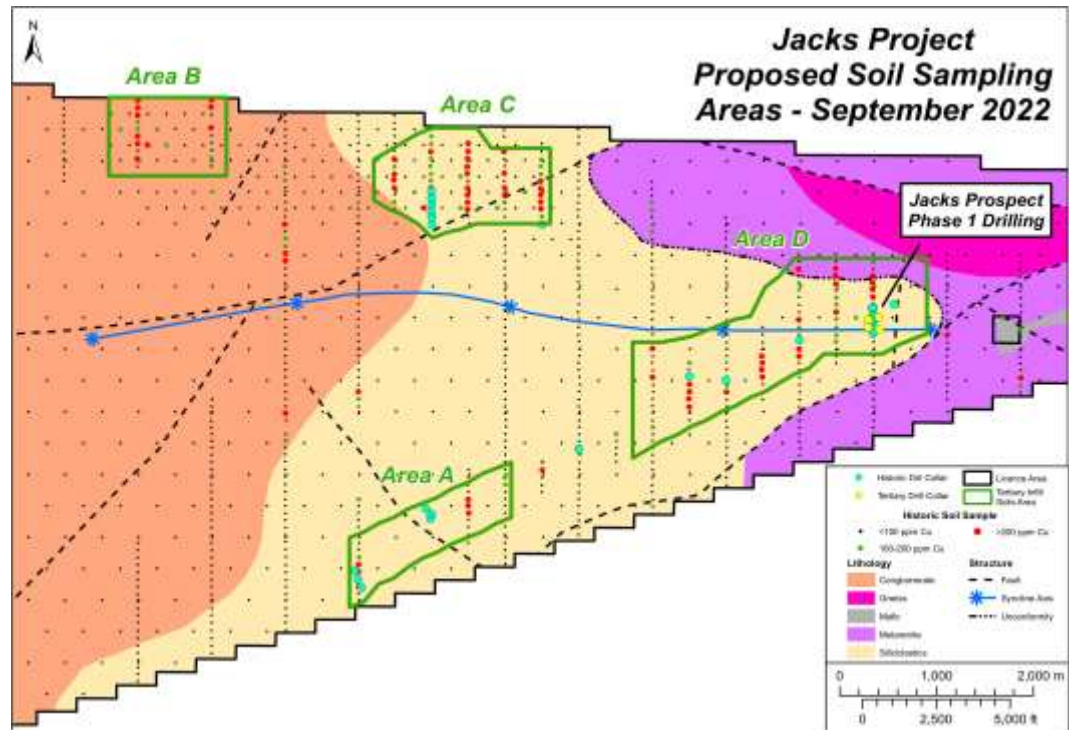
Jacks Project 2022 Phase 1 Drilling



Jacks Soil Sampling Programme - Complete



- Approx. 2,000 soil samples collected across 4 grids on 200m x 40m spacing.
- Targeted extensions to Jacks Prospect drilling mineralisation and zones of anomalous Cu/Sc geochemistry from wide spaced historic soil sampling.
- Infield pXRF analysis guided immediate follow-up.
- Infill sampling at 1200m x 40m spacing on three grids.

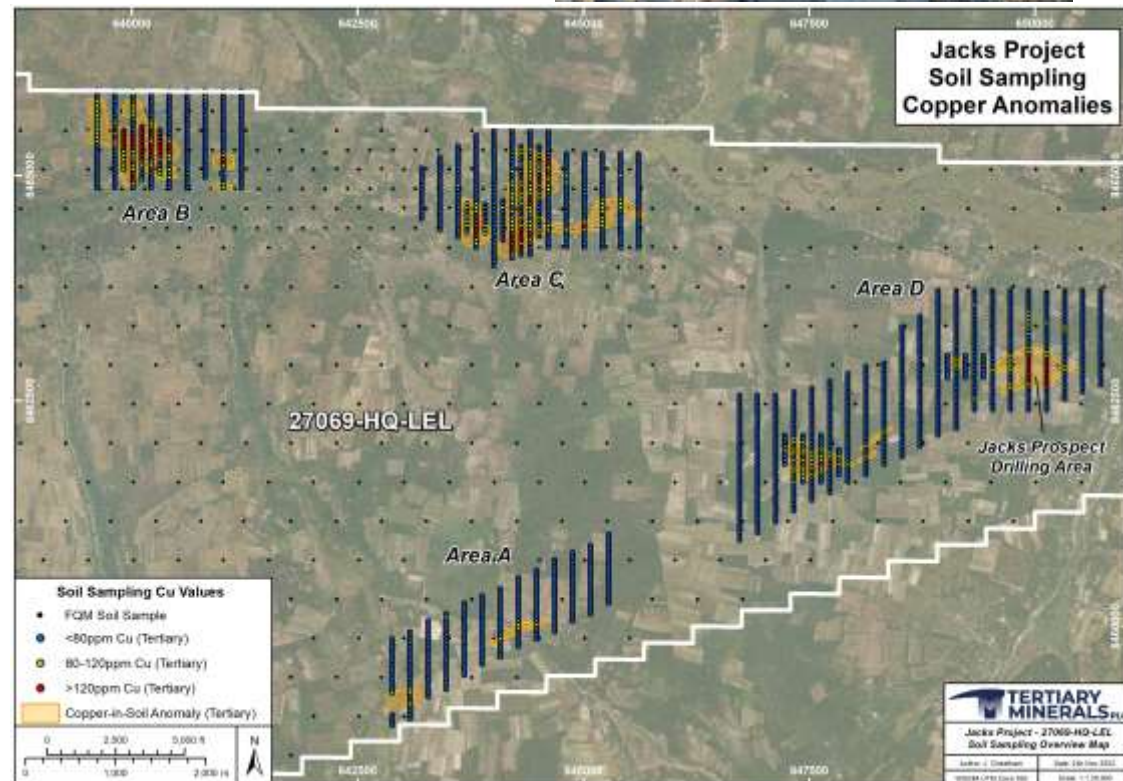


Jacks Soil Sampling Programme - Complete



Provisional results from pXRF analysis:

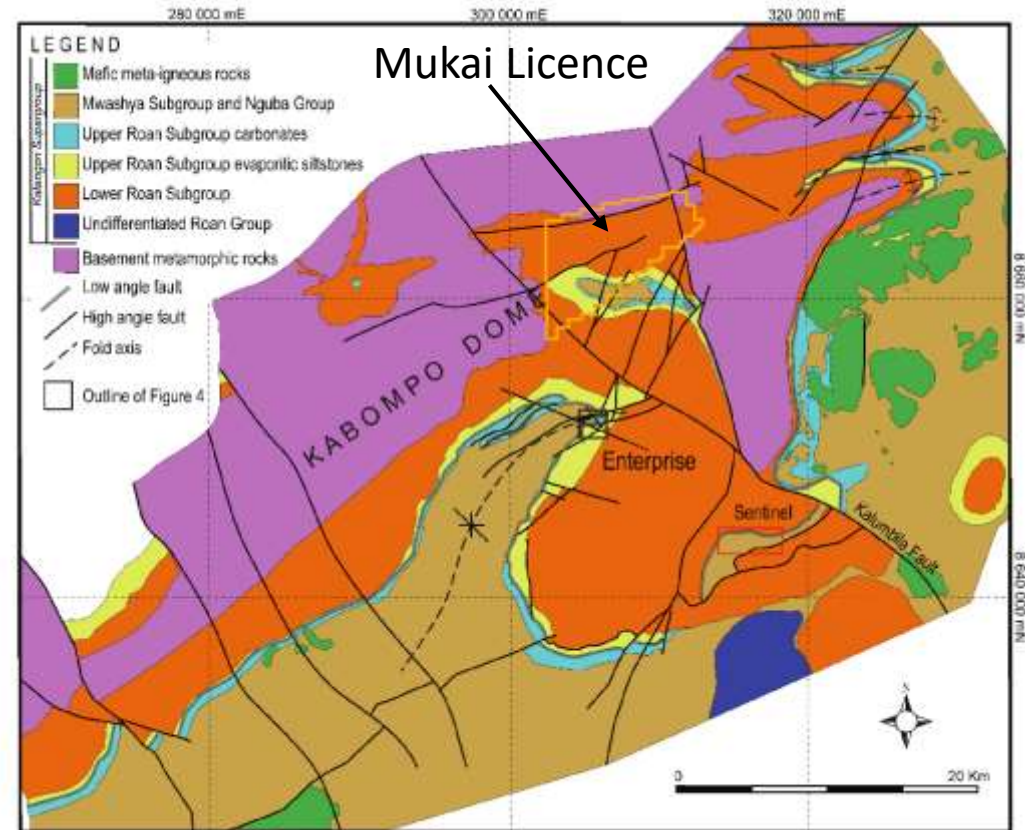
- Multiple soil anomalies were defined with a peak value of 535ppm copper and with sufficient ground control to allow for drill testing.
- Provisional results compare favourably with soil anomalies in the vicinity of various ore zones at current and past producing mines on the Copperbelt.
- Check samples are now being sent to South African laboratory for traditional wet chemical analysis.



Mukai – Copper-Nickel Project



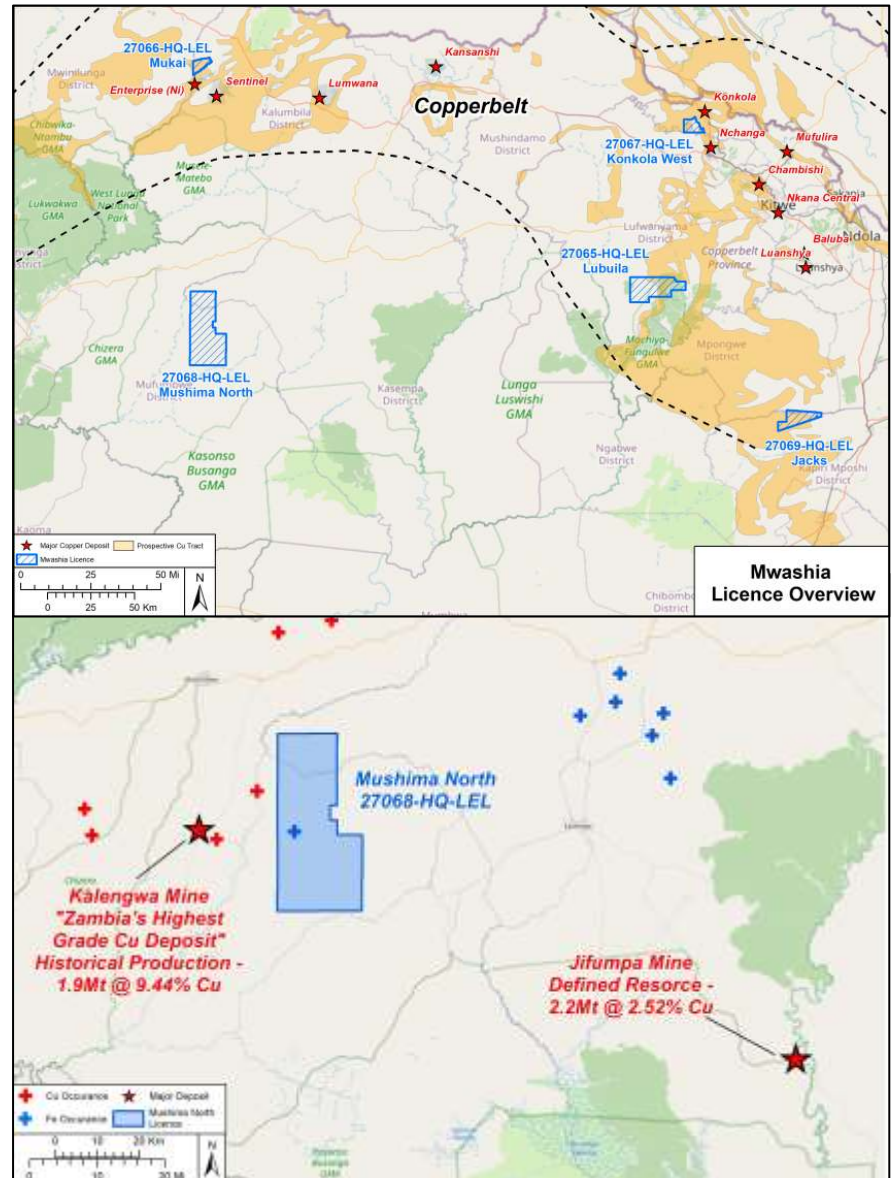
- Data sharing & technical cooperation agreement with First Quantum Minerals (FQM).
- Located in the “Domes” region of the NW province on south side of the Kabompo Dome.
- Surrounded by FQM’s Trident project which includes Sentinel (Cu) and Enterprise (Ni) mines.
- To east of Arc Minerals Zambia Copper-Cobalt Project where Anglo American is earning 70% through expenditure of US\$88.8 million.
- Adjacent to major Kakumbila fault and contains prospective stratigraphy hosting Enterprise and Trident mines.
- FQM data being provided – geophysical (magnetics, radiometrics and electromagnetics) and geochemical data.
- **Priority copper and nickel soil anomalies defined from combined historical data and FQM data.**
- Currently awaiting approval of Environmental Project brief to allow start of follow up exploration.



Mushima North - Iron-Oxide-Copper-Gold (“IOCG”)



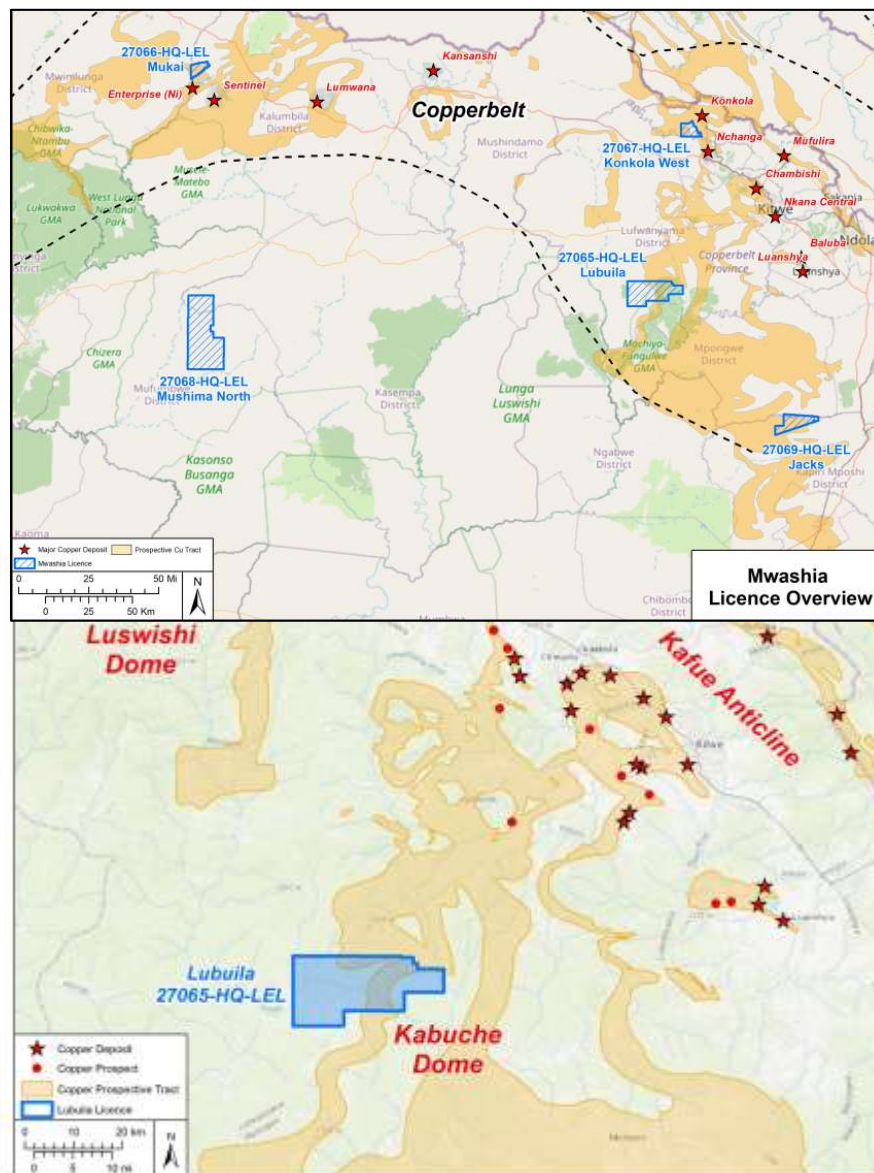
- Data sharing & technical cooperation agreement with First Quantum Minerals (FQM).
- The licence is underlain by basement rocks outside of the traditional Copper Belt and the region is a focus of exploration for copper-gold in so called Iron-Oxide-Copper-Gold (“IOCG”) deposits exemplified by giant Olympic Dam project in Australia .
- Near to past producing Kalengwa Mine, highest grade copper producer in Zambia.
- Historical exploration by Roan Selection Trust, BHP (using Falcon gravity system) and Anglo.
- Tertiary reviewing available historic data and planning for 2023 exploration season.
- **Historical Roan Selection Trust drill hole ended in copper mineralisation and not followed up.**
- Currently awaiting approval of Environmental Project brief to allow start of follow up exploration.



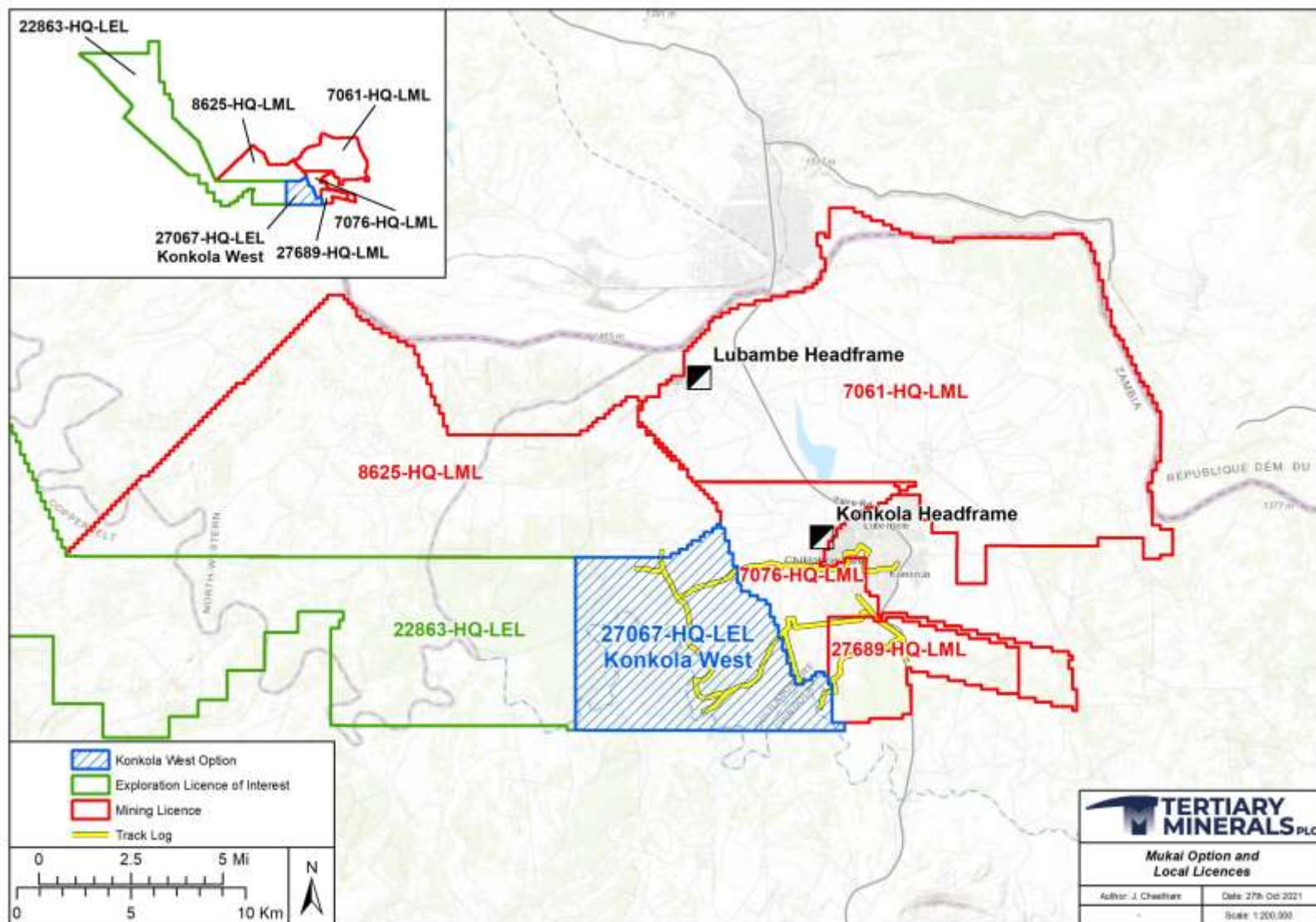
Lubuila Copper Project



- The licence is partially underlain by 13km strike length of prospective Lower Roan Group on west side of Kabuche Dome.
- Tertiary reviewing available historic data and planning for 2023 exploration season.
- Environmental Project Brief approved allowing start to exploration.



Konkola West Copper Project



Konkola West Copper Project

- Adjacent to large Konkola Copper mining complex and Lubambe underground copper mine.
- Ore horizon projected to project area but at great depth.
- Key fault structures (e.g. Luansobe Fault extension, Cross Axis Fault Zone etc.) may cross into Konkola West.
- Fault structures are associated with copper mineralisation.
- Environmental Project Brief approved allowing start to exploration.

Why Nevada?



- Ranked 1st in the world as a mining jurisdiction by the Frazer Institute, Investment Attractiveness Index 2020.
- 4th highest global gold producer.
- 2nd in the US for silver production.
- Significant copper and industrial mineral production.
- Majority of land is Federally owned and open to claim staking.
- Well defined and largely transparent mine permitting process.
- Major mining companies well established inc. Newmont, Barrick, Anglo-Gold & RioTinto, Kinross & Hecla.



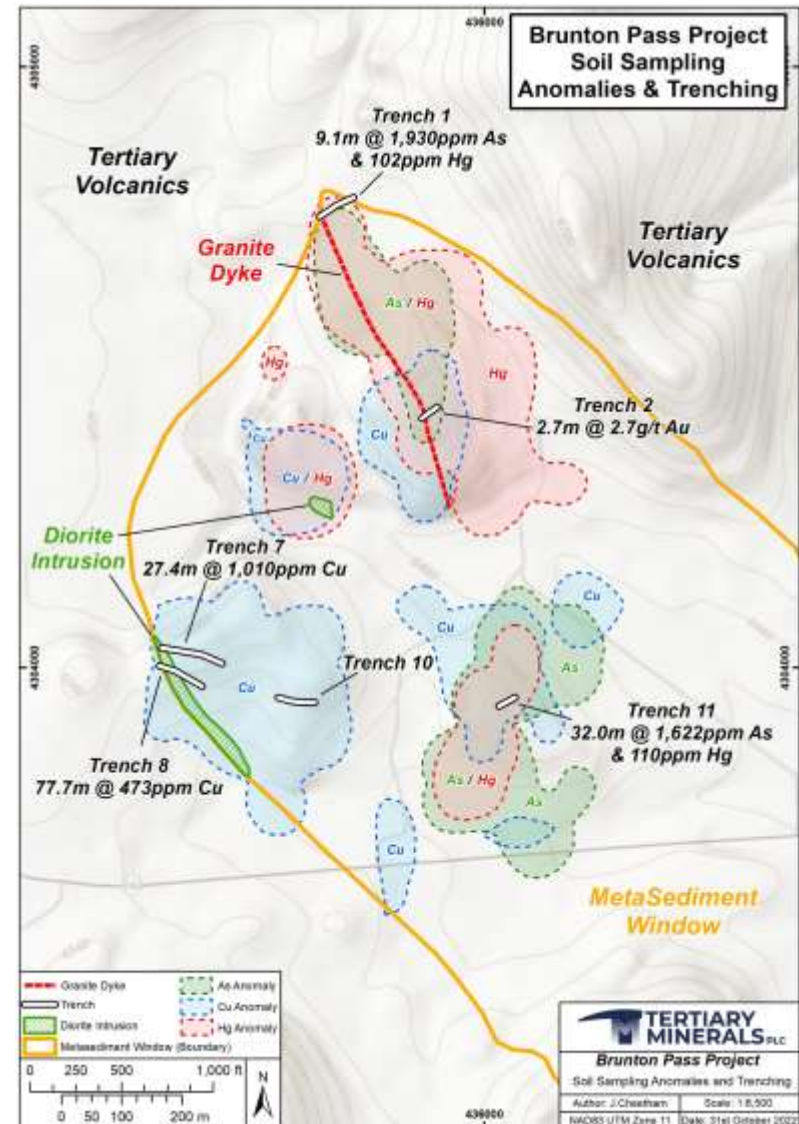


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Brunton Pass – Drill targets



- Soil sampling has defined multiple copper, arsenic and mercury soil anomalies.
- Follow up trenching has defined large areas of skarn containing low grade copper and alteration styles similar to KHGM's producing Robinson mine - possible halo to a copper skarn deposit and porphyry copper target:
 - Trench 7 intersected 45.7m grading 814ppm copper and Trench 8 intersected 77.7m grading 473ppm copper.
- Trenching across >1km zone of coincident arsenic and mercury anomalies revealed similar epithermal argillic alteration assemblages (smectite+quartz+/-opal) and geochemical indicators as Paradise Peak Mine (>1.6 million ounces gold past production):
 - Trench 1 intersected a 9.1m section containing 1,930ppm As and 102ppm Hg.
 - Trench 2 intersected 2.7m grading 2.65 g/t gold.
 - Trench 11 intersected 32m grading 1622ppm As and 110ppm Hg (approx. 1,000x background).

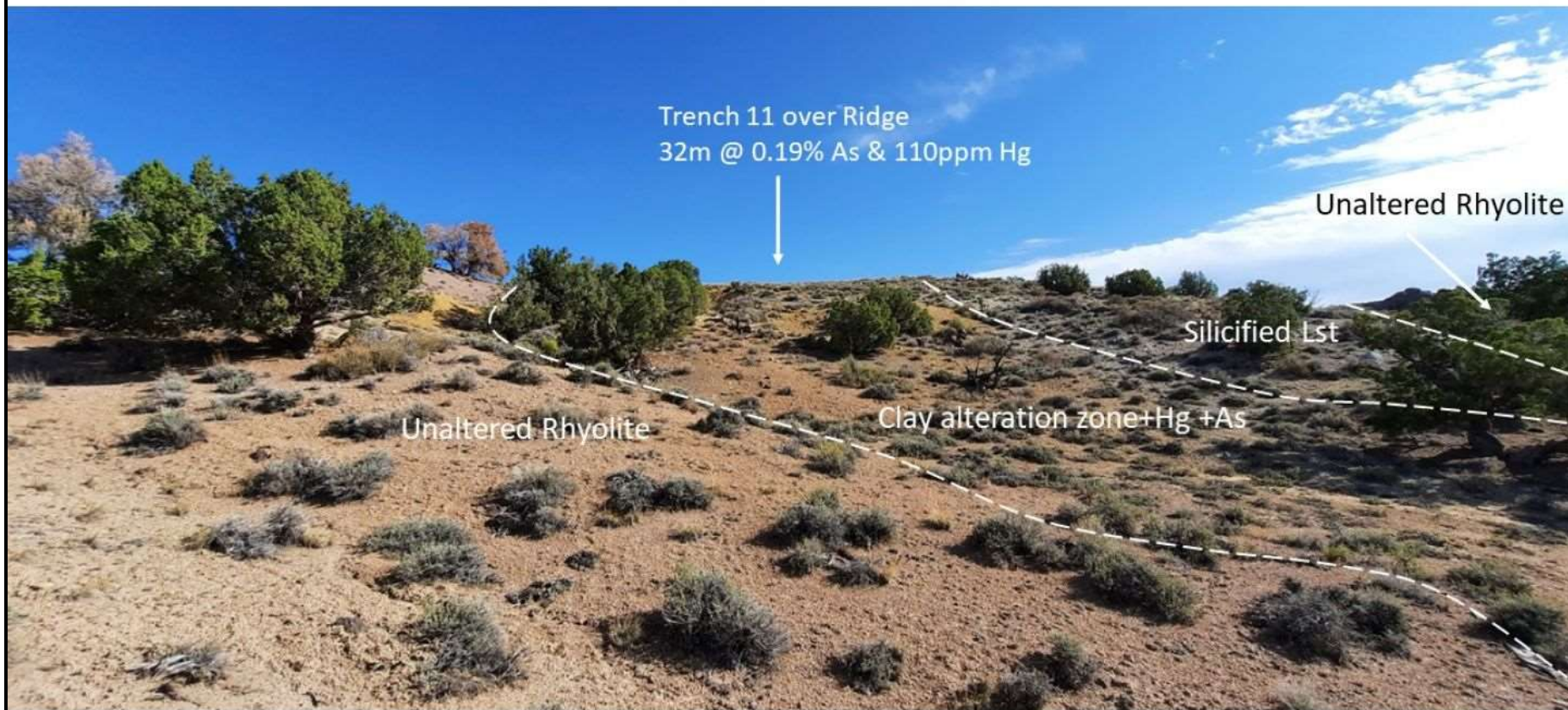


Brunton Pass Project



Priority drill target for epithermal gold

Brunton Pass Project, Nevada, Looking North towards Trench 11



Zambia

- Jacks Project - check soil analysis and definition of additional drill targets
- Data compilation and exploration planning for 2023 season at Mukai & Mushima North.
- Continue cooperation with First Quantum to advance exploration planning and data sharing in Zambia.

Nevada

- Brunton Pass (Nevada, copper) – drill testing of epithermal and skarn copper targets.



Reminder of the investment case



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